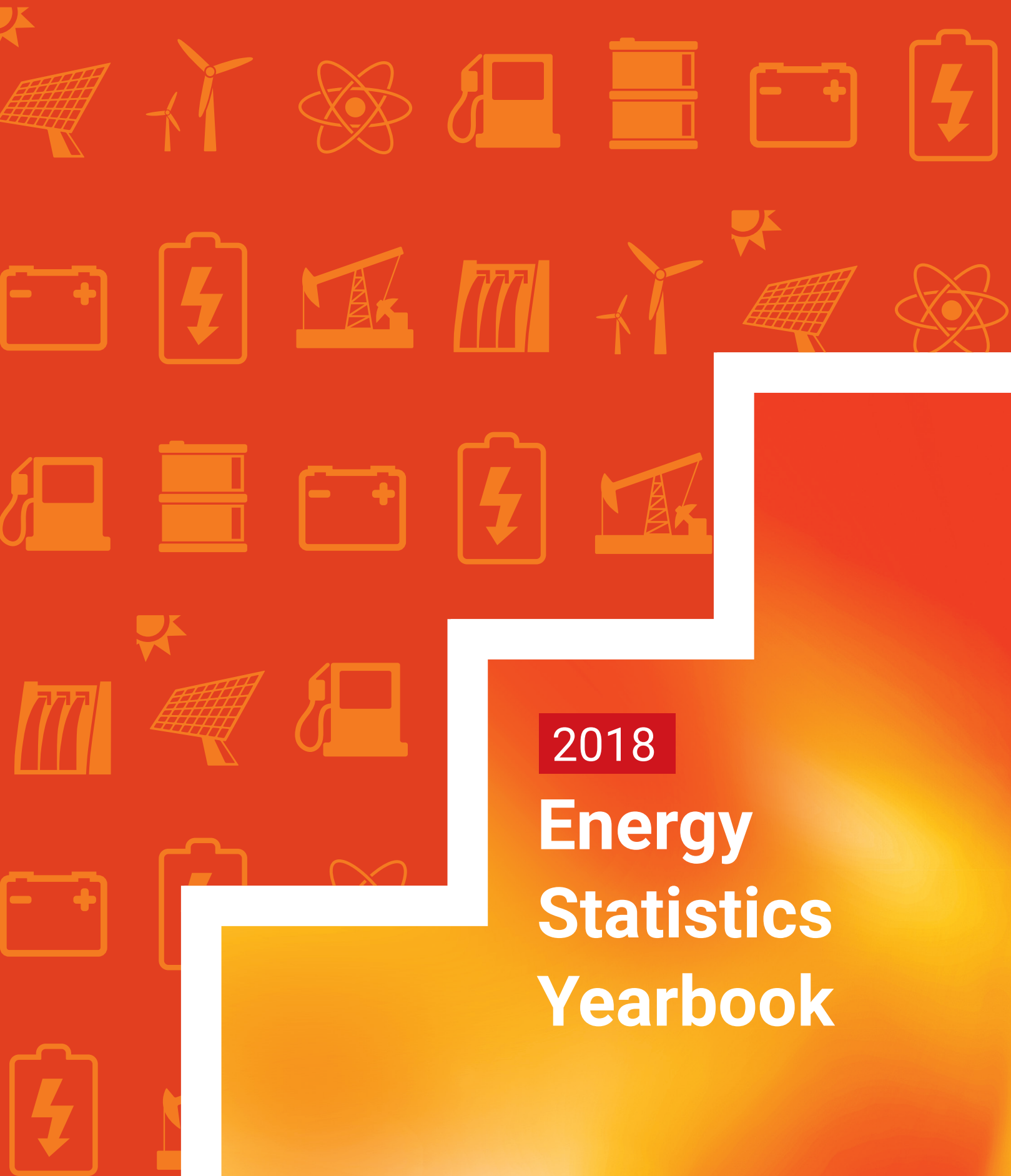




**United
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Department of Economic and Social Affairs



2018

Energy Statistics Yearbook

2018 Energy Statistics Yearbook



United Nations
New York, 2021

Department of Economic and Social Affairs

The Department of Economic and Social Affairs of the United Nations Secretariat is a vital interface between global policies in the economic, social and environmental spheres and national action. The Department works in three main interlinked areas: (i) it compiles, generates and analyses a wide range of economic, social and environmental data and information on which States Members of the United Nations draw to review common problems and to take stock of policy options; (ii) it facilitates the negotiations of Member States in many intergovernmental bodies on joint courses of action to address ongoing or emerging global challenges; and (iii) it advises interested Governments on the ways and means of translating policy frameworks developed in United Nations conferences and summits into programmes at the country level and, through technical assistance, helps build national capacities.

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CONTENTS

Page

Introduction	vi
Abbreviations and symbols.....	viii
Energy product definitions	ix
Energy flow definitions.....	xvi
Capacities and other definitions	xviii
General notes	xx
Geographical notes.....	xxi
Country specific information	xxiii
Units of measurement and conversion	xxv

Conversion factors

I. Net calorific values of energy products	xxvi
II. Selected conversion factors for crude oil and oil products.....	xlili

TABLES

Summary tables

1. Total energy supply... ..	2
2. Components of total energy supply	10
3. Total final consumption and its components.....	47

Solid fuels

4. Production, trade and supply of coal.....	67
5. Production, trade and supply of hard coal	81
6. International trade of hard coal (Principal importers/exporters), 2017 and 2018.....	92
7. Production, trade and supply of brown coal and oil shale	97
8. Production, trade and supply of coke	105
9. Production, trade and supply of patent fuel	113
10. Production, trade and supply of brown coal briquettes and peat products	117
11. Production, trade and supply of peat	123
12. Production of biofuels and wastes.....	127

Liquid fuels

13. Production, trade and supply of conventional crude oil	160

14. Production of additives and other hydrocarbons	173
15. International trade of conventional crude oil (Principal importers/exporters), 2017 and 2018	178
16. Refinery distillation capacity, throughput and output	182
17. Production, trade and supply of liquefied petroleum gases (LPG)	195
18. Production, trade and supply of motor gasoline.....	213
19. Production, trade and supply of other kerosene	233
20. Production, trade and supply of jet fuels	249
21. Production, trade and supply of gas oil/diesel oil	267
22. Production, trade and supply of fuel oil	287
23. Production of minor oil products from refineries – by type	305
24. Production of oil products from refineries – by type	317
25. Production, trade and supply of oil products....	329
26. Production of natural gas liquids – by end use	349

Gaseous fuels

27. Production, trade and supply of natural gas	357
28. International trade of natural gas (Principal importers/exporters), 2017 and 2018	370
29. Production of manufactured and recovered gases - by type	375

Electricity and Heat

30. Net installed capacity of electricity plants – by type	383
31. Utilization of installed electricity capacity – by type.....	419
32. Production of electricity – by type	454
33. Electricity supply and consumption	491
34. Production of heat - by type	511

Nuclear fuels

35. Production of uranium (uranium content).....	521

Energy resources

36. Selected energy resources and reserves	525

FIGURES

Page

Total energy supply and final consumption

1. Total energy supply by region, 1990.....	2
2. Total energy supply by region, 2018.....	2
3. Total energy supply by region, 1990-2018.....	3
4. Total per capita energy supply by region, selected years	10
5. Production of solids by region, 2018.....	11
6. Production of liquids by region, 2018.....	11
7. Production of gases by region, 2018	11
8. Primary electricity production by region, 2018....	11
9. World total final consumption by component, 2018	47
10. Total final consumption by region, 1990-2018....	47

Solid fuels

11. Production of coal by region, 1990-2018	67
12. Production of hard coal by region, 1990-2018....	81
13. Major hard coal producing countries, 2018.....	81
14. Major hard coal consuming countries, 2018	81
15. Production of brown coal and oil shale by region, 1990-2018	97
16. Major brown coal producing countries, 2018	97
17. Major brown coal consuming countries, 2018....	97
18. Per capita supply of coke by region, 2018	105
19. Major coke producing countries, 2018	105
20. Major coke consuming countries, 2018	105
21. Major peat fuel producing countries, 2018....	113
22. Major peat fuel consuming countries, 2018 ...	113
23. Production of BKB and peat products by region, 1990-2018	117
24. Major BKB and peat products producing countries, 2018.....	117
25. Major BKB and peat products consuming countries, 2018.....	117
26. World production of peat, 1990-2018.....	123
27. Major peat producing countries, 2018.....	123
28. Major peat consuming countries, 2018	123
29. Production of fuelwood by region, 1990-2018 ..	128
30. Production of charcoal by region, 1990-2018 ...	128
31. Production of total solid biofuels by region, 2018	129
32. Production of biogases by region, 2018.....	129
33. Production of bagasse by region, 2018	129
34. Production of liquid biofuels by region, 2018	129

35. Production of energy from wastes by region, 2018	129

Liquid fuels

36. Production of conventional crude oil by region, 1990-2018	160
37. Exports of conventional crude oil by region, 1990-2018	160
38. Production, trade and supply of conventional crude oil by region, 2018	161
39. Major crude oil producing countries, 2018	161
40. Major crude oil consuming countries, 2018	161
41. Major additives producing countries, 2018	173
42. Major other hydrocarbons producing countries, 2018.....	173
43. Refinery distillation capacity, throughput and output by region, 2018	182
44. Total refinery distillation capacity by region, 1990-2018	183
45. Production of LPG by region, 1990-2018.....	195
46. Major LPG producing countries, 2018.....	195
47. Major LPG consuming countries, 2018.....	195
48. Production of motor gasoline by region, 1990-2018	213
49. Major motor gasoline producing countries, 2018	213
50. Major motor gasoline consuming countries, 2018	213
51. Production of other kerosene by region, 1990-2018	233
52. Major other kerosene producing countries, 2018	233
53. Major other kerosene consuming countries, 2018	233
54. Production of jet fuels by region, 1990-2018	249
55. Major jet fuels producing countries, 2018	249
56. Major jet fuels consuming countries, 2018.....	249
57. Production of gas oil/diesel oil by region, 1990-2018	267
58. Major gas oil/diesel oil producing countries, 2018	267
59. Major gas oil/diesel oil consuming countries, 2018	267
60. Production of fuel oil by region, 1990-2018	287
61. Major fuel oil producing countries, 2018	287
62. Major fuel oil consuming countries, 2018.....	287
63. Production of minor oil products from refineries, 2018.....	305
64. Production of selected oil products from refineries, 1990-2018	317
65. Production of oil products by region, 1990-2018	329

66. Production of natural gas liquids by region, 1990-2018	349
67. Production of natural gas liquids by end-use product, 2018	349

Gaseous fuels

68. Production of natural gas by region, 1990-2018	357
69. Major natural gas producing countries, 2018....	357
70. Major natural gas consuming countries, 2018 ..	357
71. Production of manufactured and recovered gases by region, 1990-2018.....	375
72. World production of manufactured and recovered gases by type, 2018	375

Electricity and Heat

73. Change in net installed capacity of electricity generating plants by source, 2013-2018.....	383
74. Utilization of installed electric generating capacity by source and region, 2018	419
75. World electricity generation by source, 1990-2018	454

76. World production of electricity by source and region, 2018	455
77. Major countries producing electricity from combustible fuels, 2018	455
78. Major countries producing hydro electricity, 2018	455
79. Major countries producing nuclear electricity, 2018	455
80. Major countries producing electricity from other sources, 2018.....	455
81. World electricity generation by region, 1990-2018	491
82. Major electricity producing countries, 2018.....	491
83. Major electricity consuming countries, 2018	491
84. Heat production by region, 1990-2018.....	511
85. Major heat producing countries, 2018.....	511
86. World heat production by type, 2018	511

Statistics compiled as of December 2020

INTRODUCTION

The *Energy Statistics Yearbook 2018* is a comprehensive collection of international energy statistics prepared by the United Nations Statistics Division. It is the sixty-second in a series of annual compilations which commenced under the title *World Energy Supplies in Selected Years, 1929-1950*.¹ It updates the statistical series shown in the previous issue. Supplementary series of monthly data on production of energy may be found in the *Monthly Bulletin of Statistics*.²

The principal objective of the *Yearbook* is to provide a global framework of comparable data on long-term trends in the supply of both primary and secondary forms of energy. Data for each energy product and aggregated data for the total energy supply are shown for individual countries and territories, and are summarized into regional and world totals. The data are compiled primarily from the annual energy questionnaire distributed by the United Nations Statistics Division and supplemented by official national statistical publications, as well as publications from international and regional organizations. Where official data are not available or are inconsistent, estimates are made by the Statistics Division based on governmental, professional or commercial materials. Estimates include, but are not limited to, extrapolated data based on partial year information, use of annual trends, trade data based on partner country reports, breakdowns of aggregated data and analysis of current energy events.³

This issue of the *Yearbook* contains data in original and common energy units (tons of coal equivalent and joules) for the years 2015-2018.⁴

This publication presents energy statistics consistent with the International Recommendations for Energy Statistics (IRES), which were endorsed by the United Nations Statistical Commission in 2011. IRES contains the Standard International Energy Product Classification (SIEC), the first definitive standard classification for energy products. It has been

built on a set of internationally harmonized definitions of energy products developed by the Intersecretariat Working Group on Energy Statistics (InterEnerStat) as mandated by the United Nations Statistical Commission. The adoption of SIEC as an international standard classification for energy products represents a significant step forward for energy statistics at the international level. SIEC not only provides a unified set of product definitions, but also uses a standard coding scheme, a common hierarchy of categories, and provides links to other internationally agreed product classifications, such as the Central Product Classification (CPC) and the Harmonized Commodity Description and Coding System (HS).

Within this methodological framework:

- a) Table 1 shows a more historical perspective of total energy supply, with data for selected years going back to 1990.
- b) Table 2 provides more detail on the components of total energy supply, namely primary production (broken down by type), trade, international bunkers and stock changes. Total energy supply is also shown on a per capita basis.
- c) Table 3 provides more detail on total final consumption of energy products, broken down by consuming sector (including non-energy use), and also shows total final consumption per capita.

By referring to previous volumes of the publication, time series can be established from 1950 to the present for the shown products. In addition to the basic tables showing production, trade, stock changes, international bunkers, supply and consumption, information is included on various other topics such as:

(a) The principal importers and exporters of hard coal, crude oil and natural gas for the years 2017 and 2018;

(b) The capacity of oil refineries and electricity generating plants by type;

(c) The ratio of crude oil and natural gas liquids reserves to crude oil and natural gas liquids production (R/P ratio);

(d) The electricity generated from different

¹Statistical Papers, Series J, No. 1 (United Nations publication, Sales No. 1952.XVII.3).

²Statistical Papers, Series Q, *Monthly Bulletin of Statistics*, (United Nations publication).

³For details, see

unstats.un.org/unsd/energystats/pubs/yearbook/

⁴Table 1 shows data back to 1990 to give a more historical perspective.

sources (including both electricity-only and combined heat and power (CHP) plants) such as from combustible fuels, nuclear, hydro, wind, and solar;

(e) The heat produced (from both heat-only and CHP plants) from combustible fuels, geothermal, solar thermal, nuclear, chemical heat, heat pumps and electric boilers, and direct use of solar thermal and geothermal.

The information contained in the *Yearbook* is also available in electronic format⁵. Requests for information should be directed to United Nations Publications at: order@un.org.

Acknowledgement is due to the following specialized and intergovernmental agencies whose publications have been utilized in supplementing our statistics: African Energy Commission (AFREC), Asia-Pacific Economic Cooperation (APEC), Food and Agriculture Organization of the United Nations (FAO), International Atomic Energy Agency (IAEA), International Energy Agency of the Organisation

for Economic Co-operation and Development (IEA/OECD), International Renewable Energy Agency (IRENA), International Sugar Organization (ISO), Organization of Arab Petroleum Exporting Countries (OAPEC), Organization of the Petroleum Exporting Countries (OPEC), Organización Latinoamericana de Energía (OLADE), Statistical Office of the European Union (Eurostat), World Energy Council (WEC). Acknowledgement is also made to governmental, energy and statistical authorities of the Member States which have been cooperative in providing data.

The annual energy data are being collected and processed by the Energy Statistics Section of UNSD, headed by Mr. Leonardo Souza. The processing of the energy data and preparation for publication was carried out by Ms. Agnieszka Koscielniak, Mr. Man Soni, Ms. Costanza Giovannelli, Ms. Peng Guo and Mr. Graham Osborn.

Enquiries, comments and suggestions for improving this publication are welcome and should be addressed to: energy_stat@un.org.

⁵ For details, see
unstats.un.org/unsd/energystats/pubs/yearbook/

ABBREVIATIONS AND SYMBOLS

The following symbols and abbreviations have been used:

cSt	centistoke
m ³	cubic metre
°C	degree Celsius
GJ	gigajoule (10 ⁹ joules)
GWh	gigawatt-hour (10 ⁶ kWh)
IRES	International Recommendations for Energy Statistics
kcal	kilocalorie
kg	kilogramme
kg/cm ²	kilogramme per square centimetre
kJ	kilojoule (10 ³ joules)
kWh	kilowatt-hour
LPG	liquefied petroleum gas
mg/g	milligramme per gramme
MJ	megajoule (10 ⁶ joules)
MW	megawatt
NGL	natural gas liquids
PJ	petajoule (10 ¹⁵ joules)
t	metric ton
TCE	ton of coal equivalent
TJ	terajoule (10 ¹² joules)
*	estimate by the United Nations Statistics Division
..	data not applicable or not available

ENERGY PRODUCT DEFINITIONS

This section provides definitions of energy products utilized in the publication. These definitions correspond to SIEC. Some tables may include names or concepts not included in these product definitions. See the specific table's notes for how its product definitions relate to SIEC definitions.

SOLID FOSSIL FUELS

Hard coal – Coals with a gross calorific value (moist, ash-free basis) which is not less than 24 MJ/kg or which is less than 24 MJ/kg provided that the coal has a vitrinite mean random reflectance greater than or equal to 0.6 per cent. Hard coal comprises anthracite and bituminous coals.

Brown coal – Coals with a gross calorific value (moist, ash-free basis) less than 24 MJ/kg and a vitrinite mean random reflectance less than 0.6 per cent. Brown coal comprises sub-bituminous coal and lignite.

Peat – A solid fuel formed from the partial decomposition of dead vegetation under conditions of high humidity and limited air access (initial stage of coalification). It is available in two forms for use as a fuel, sod peat and milled peat. Only peat used as fuel is included.

Patent fuel – A composition fuel made by moulding hard coal fines into briquette shapes with the addition of a binding agent such as pitch.

Brown coal briquettes – A composition fuel made of brown coal produced by briquetting under high pressure with or without the addition of a binding agent. Either sub-bituminous coal or lignite may be used, including dried lignite fines and dust.

Peat products – This includes products such as peat briquettes derived directly or indirectly from sod peat and milled peat.

Coal coke – This group includes the solid, cellular, infusible material remaining after the carbonisation of certain coals. Various cokes are defined according to the type of coal carbonised and their conditions of carbonisation or use: coke oven coke, gas coke, coke breeze and semi cokes. For collection purposes coke breeze and

semi cokes are included with coke oven coke.

Coal tar – The liquid by-product of the carbonization of coal in coke ovens. Coal tar may be separated by distillation into several liquid products which may be used for pharmaceutical or wood preservative purposes.

Other coal products – coal products not elsewhere specified (if any).

Oil shale – A sedimentary rock which contains organic matter in the form of kerogen. Kerogen is a waxy hydrocarbon-rich material regarded as a precursor of petroleum. Oil shale may be burned directly or processed by heating to extract shale oil. Note that this product was formerly included under Lignite by the IEA.

LIQUID FOSSIL FUELS

Conventional crude oil – A mineral oil of fossil origin extracted by conventional means from underground reservoirs, and comprises liquid or near-liquid hydrocarbons and associated impurities such as sulphur and metals. Conventional crude oil exists in the liquid phase under normal surface temperature and pressure, and usually flows to the surface under the pressure of the reservoir. This is termed "conventional" extraction. Crude oil includes condensate from condensate fields, and "field" or "lease" condensate extracted with the crude oil.

The various crude oils may be classified according to their sulphur content ("sweet" or "sour") and API gravity ("heavy" or "light"). There are no rigorous specifications for the classifications, but a heavy crude oil may be assumed to have an API gravity of less than 20° and a sweet crude oil may be assumed to have less than 0.5% sulphur content. For simplicity, this publication often refers to conventional crude oil as simply crude oil.

Natural gas liquids (NGL) – Natural gas liquids are a mixture of ethane, propane, butane (normal and iso), (iso) pentane and a few higher alkanes collectively referred to as pentanes plus.

NGL are produced in association with oil or natural gas. They are removed in field facilities or

gas separation plants before sale of the gas. All of the components of NGL except ethane are either liquid at the surface or are liquefied for disposal.

The definition given above is the most commonly used. However, there is some use of terms based on the vapour pressure of the components which are liquid at the surface or can be easily liquefied. The three resulting groups are in order of increasing vapour pressure: condensates, natural gasoline and liquefied petroleum gas.

NGL may be distilled with crude oil in refineries, blended with refined oil products or used directly. NGL differs from LNG (liquefied natural gas) which is obtained by liquefying natural gas from which the NGL has been removed.

Additives and oxygenates – Compounds added to or blended with oil products to modify their properties (octane, cetane, cold properties, etc.). Examples are: (a) oxygenates such as alcohols (methanol, ethanol) and ethers [MTBE (methyl tertiary butyl ether), ETBE (ethyl tertiary butyl ether), TAME (tertiary amyl methyl ether)]; (b) esters (e.g., rapeseed or dimethylester, etc.); and (c) chemical compounds (such as TML, TEL and detergents). Some additives/oxygenates may be derived from biomass while others may be of fossil hydrocarbon origin.

Other hydrocarbons – This includes non-conventional oils and hydrogen. Non-conventional oils refer to oils obtained by non-conventional production techniques, that is oils which are extracted from reservoirs containing extra heavy oils or oil sands which need heating or treatment (e.g., emulsification) in situ before they can be brought to the surface for refining/processing. They also include the oils extracted from oil sands, extra heavy oils, coal and oil shale which are at, or can be brought to, the surface without treatment and require processing after mining (ex situ processing). Non-conventional oils may also be produced from natural gas.

The oils may be divided into two groups: (i) oils for transformation (e.g., synthetic crudes extracted from extra heavy oils, oil sands, coal and oil shale); and (ii) oils for direct use (e.g., emulsified oils such as orimulsion and GTL liquids).

Oil products – Products obtained from crude oil, non-conventional oils or gases from oil and gas fields. They may be produced through the refining of conventional crude and non-conventional oils or during the separation of natural gas from gases extracted from oil or gas fields. This category includes Aviation gasoline, Motor gasoline, Gasoline-type jet fuel, Kerosene-type jet fuel, Other kerosene, Gas/diesel oil, Fuel oil, LPG, Feedstocks, Naphtha, White spirit and SBP, Lubricants, Bitumen, Paraffin waxes, Petroleum coke, Refinery gas, Ethane, and Other oil products.

Aviation gasoline – Gasoline prepared especially for aviation piston engines with additives which assure performance under flight conditions. Aviation gasolines are predominantly alkylates (obtained by combining C4 and C5 isoparaffins with C3, C4 and C5 olefins) with the possible addition of more aromatic components including toluene. The distillation range is 25°C to 170°C.

Motor gasoline – A mixture of some aromatics (e.g., benzene and toluene) and aliphatic hydrocarbons in the C5 to C12 range. The distillation range is 25°C to 220°C.

Additives are blended to improve octane rating, improve combustion performance, reduce oxidation during storage, maintain cleanliness of the engine and improve capture of pollutants by catalytic converters in the exhaust system. Motor gasoline may also contain biogasoline products when blended.

Gasoline-type jet fuel – Light hydrocarbons for use in aviation turbine power units, distilling between 100°C and 250°C. They are obtained by blending kerosene and gasoline or naphtha in such a way that the aromatic content does not exceed 25 per cent in volume, and the vapour pressure is between 13.7 kPa and 20.6 kPa. Gasoline-type jet fuel is also known as “aviation turbine fuel”.

Kerosene – Mixtures of hydrocarbons in the range C9 to C16 and distilling over the temperature interval 145°C to 300°C, but not usually above 250°C and with a flash point above 38°C.

The chemical compositions of kerosenes

depend on the nature of the crude oils from which they are derived and the refinery processes that they have undergone. Kerosenes obtained from crude oil by atmospheric distillation are known as straight-run kerosenes. Such streams may be treated by a variety of processes to produce kerosenes that are acceptable for blending as jet fuels.

Kerosenes are primarily used as jet fuels. They are also used as domestic heating and cooking fuels, and as solvents. Kerosenes may include components or additives derived from biomass when blended.

Kerosene-type jet fuel – A blend of kerosenes suited to flight conditions with particular specifications, such as freezing point.

The specifications are set down by a small number of national standards committees, most notably ASTM (U.S.), MOD (UK), GOST (Russia).

Other kerosene – Kerosene which is used for heating, cooking, lighting, solvents and internal combustion engines. Other names for this product are burning oil, vaporizing oil, power kerosene and illuminating oil.

Gas oil/diesel oil – Gas oils are middle distillates, predominantly of carbon number range C11 to C25 and with a distillation range of 160°C to 420°C. The principal marketed products are fuels for diesel engines (diesel oil), heating oils and marine fuel. Gas oils are also used as middle distillate feedstock for the petrochemical industry and as solvents. Also included here is heavy gasoil, which is a mixture of predominantly gas oil and fuel oil which distills in the range of approximately 380°C to 540°C.

Fuel oil – Comprises residual fuel oil and heavy fuel oil. Residual fuel oils have a distillation range of 350°C to 650°C and a kinematic viscosity in the range 6 to 55 cSt at 100°C. Their flash point is always above 60°C and their specific gravity is above 0.95. Heavy fuel oil is a general term describing a blended product based on the residues from various refinery processes. Other names commonly used to describe fuel oil include: bunker fuel, bunker C, fuel oil No. 6, industrial fuel oil, marine fuel oil and black oil.

Residual and heavy fuel oil are used in medium to large industrial plants, marine

applications and power stations in combustion equipment such as boilers, furnaces and diesel engines. Residual fuel oil is also used as fuel within the refinery.

Liquefied petroleum gases (LPG) – LPG refers to liquefied propane (C₃H₈) and butane (C₄H₁₀) or mixtures of both. Commercial grades are usually mixtures of the gases with small amounts of propylene, butylene, isobutene and isobutylene stored under pressure in containers.

The mixture of propane and butane used varies according to purpose and season of the year. The gases may be extracted from natural gas at gas separation plants or at plants re-gasifying imported liquefied natural gas. They are also obtained during the refining of crude oil. LPG may be used for heating and as a vehicle fuel.

See also the definition for natural gas liquids. Certain oil field practices also use the term LPG to describe the high vapour pressure components of natural gas liquids.

Ethane – A naturally straight-chain hydrocarbon (C₂H₆). Ethane is obtained at gas separation plants or from the refining of crude oil. It is a valuable feedstock for petrochemical manufacture.

Refinery gas – Includes a mixture of non-condensable gases mainly consisting of hydrogen, methane, ethane and olefins obtained during distillation of crude oil or treatment of oil products (e.g., cracking) in refineries or from nearby petrochemical plants. It is used mainly as a fuel within the refinery.

Feedstocks – This includes refinery feedstocks, i.e. oils or gases from crude oil refining or the processing of hydrocarbons in the petrochemical industry which are destined for further processing in the refinery excluding blending. Typical feedstocks include naphthas, middle distillates, pyrolysis gasoline and heavy oils from vacuum distillation and petrochemical plants.

Naphtha – Light or medium oils distilling between 30°C and 210°C which do not meet the specification for motor gasoline. Different naphthas are distinguished by their density and the content of paraffins, isoparaffins, olefins, naphthenes and aromatics. The main uses for naphthas are as feedstock for high octane

gasolines and the manufacture of olefins in the petrochemical industry.

White spirit and SBP industrial spirits –

White spirit and special boiling point industrial spirits (SBP) are refined distillate intermediates with a distillation in the naphtha/kerosene range. They are mainly used for non-fuel purposes and sub-divided as: (a) white spirit - an industrial spirit with a flash point above 30°C and a distillation range of 135°C to 200°C; and (b) industrial spirit (SBP) - light oils distilling between 30°C and 200°C.

There are 7 or 8 grades of industrial spirits, depending on the position of the cut in the distillation range. The grades are defined according to the temperature difference between the 5 per cent and 90 per cent volume distillation points (which is not more than 60°C). White spirit and Industrial spirits are mostly used as thinners and solvents.

Lubricants – Oils, produced from crude oil, for which the principal use is to reduce friction between sliding surfaces and during metal cutting operations.

Lubricant base stocks are obtained from vacuum distillates which result from further distillation of the residue from atmospheric distillation of crude oil. The lubricant base stocks are then further processed to produce lubricants with the desired properties.

Bitumen – A solid, semi-solid or viscous hydrocarbon with a colloidal structure, being brown to black in color. It is obtained as a residue in the distillation of crude oil and by vacuum distillation of oil residues from atmospheric distillation. It should not be confused with the non-conventional primary extra heavy oils which may also be referred to as bitumen.

In addition to its major use for road pavements, bitumen is also used as an adhesive, a waterproofing agent for roof coverings and as a binder in the manufacture of patent fuel. It may also be used for electricity generation in specially designed power plants.

Bitumen is also known in some countries as asphalt but in others asphalt describes the mixture of bitumen and stone aggregate used for road pavements.

Paraffin waxes – Residues extracted when dewaxing lubricant oils. The waxes have a crystalline structure which varies in fineness according to the grade, and are colourless, odourless and translucent, with a melting point above 45°C.

Paraffin waxes are also known as “petroleum waxes”.

Petroleum coke – Petroleum coke is a black solid obtained mainly by cracking and carbonizing heavy hydrocarbon oils, tars and pitches. It consists mainly of carbon (90 to 95 per cent) and has a low ash content.

The two most important categories are “green coke” and “calcined coke”.

Green coke (raw coke) is the primary solid carbonization product from high boiling hydrocarbon fractions obtained at temperatures below 630°C. It contains 4-15 per cent by weight of matter that can be released as volatiles during subsequent heat treatment at temperatures up to approximately 1330°C.

Calcined coke is a petroleum coke or coal-derived pitch coke obtained by heat treatment of green coke to about 1330°C. It will normally have a hydrogen content of less than 0.1 per cent by weight.

In many catalytic operations (e.g., catalytic cracking) carbon or catalytic coke is deposited on the catalyst, thus deactivating it. The catalyst is reactivated by burning off the coke which is used as a fuel in the refining process. The coke is not recoverable in a concentrated form.

Other oil products – Products (including partly refined products) from the refining of crude oil and feedstocks which are not specified above. These products will include basic chemicals and organic chemicals destined for use within the refinery or for sale to or processing in the chemical industry such as propylene, benzene, toluene and xylene.

GASEOUS FOSSIL FUELS

Natural gas – A mixture of gaseous hydrocarbons, primarily methane, but generally also including ethane, propane and higher

hydrocarbons in much smaller amounts and some non-combustible gases such as nitrogen and carbon dioxide.

The majority of natural gas is separated from both "non-associated" gas originating from fields producing hydrocarbons only in gaseous form, and "associated" gas produced in association with crude oil.

The separation process produces natural gas by removing or reducing the hydrocarbons other than methane to levels which are acceptable in the marketable gas. The natural gas liquids (NGL) removed in the process are distributed separately.

Natural gas also includes methane recovered from coal mines (colliery gas) or from coal seams (coal seam gas) and shale gas. When distributed it may also contain methane from anaerobic fermentation or the methanation of biomass.

Natural gas may be liquefied (LNG) by reducing its temperature in order to simplify storage and transportation when production sites are remote from centres of consumption and pipeline transportation is not economically practicable.

Gas works gas (and other manufactured gases for distribution) – This includes gases obtained from the carbonisation or gasification of carbonaceous material of fossil or biomass origins in Gas Works. The gases comprise: (a) gases obtained from carbonisation or gasification of coals, cokes, biomass or waste; and (b) substitute natural gas (a methane-rich gas) made from synthesis gas.

Synthesis gas is a mixture of mainly hydrogen and carbon monoxide obtained by cracking hydrocarbons with high temperature steam.

Coke oven gas – A gas produced from coke ovens during the manufacture of coke oven coke.

Blast furnace gas – The by-product gas of blast furnace operation consisting mainly of nitrogen, carbon dioxide and carbon monoxide. The gas is recovered as it leaves the furnace. Its calorific value arises mainly from the carbon monoxide produced by the partial combustion of coke and other carbon bearing products in the blast furnace. It is used to heat blast air and as a

fuel in the iron and steel industry. It may also be used by other nearby industrial plants. Note that where carbonised biomass (e.g, charcoal or animal meal) is used in blast furnaces, part of the carbon supply may be considered renewable.

Other recovered gases - Combustible gases of solid carbonaceous origin recovered from manufacturing and chemical processes not elsewhere defined. Examples of fuel gas production from metals and chemicals processing are in the production of zinc, tin, lead, ferroalloys, phosphorus and silicon carbide.

BIOFUELS AND WASTE

Fuelwood, wood residues and by-products – Fuelwood or firewood (in log, brushwood, pellet or chip form) obtained from natural or managed forests or isolated trees. Also included are wood residues used as fuel and in which the original composition of wood is retained. Charcoal and black liquor are excluded.

Bagasse – The fuel obtained from the fibre which remains after juice extraction in sugar cane processing. It is often used as a fuel within the sugar milling industry.

Charcoal – The solid residue from the carbonisation of wood or other vegetal matter through slow pyrolysis.

Animal waste – Excreta of animals, meat and fish residues which, when dry, are used directly as a fuel.

This excludes waste used in anaerobic fermentation plants. Fuel gases from these plants are included under biogases.

Vegetal waste – Refers to SIEC's 'Other vegetal materials and residues', which are solid primary biofuels not specified elsewhere, including straw, vegetable husks, ground nut shells, pruning brushwood, olive pomace and other wastes arising from the maintenance, cropping and processing of plants.

Municipal waste – Household waste and waste from companies and public services that resembles household waste and which is collected at installations specifically designed for the disposal of mixed wastes with recovery of combustible liquids, gases or heat.

Municipal wastes can be divided into renewable and non-renewable fractions.

Industrial waste – Non-renewable waste which is combusted with heat recovery in plants other than those used for the incineration of municipal waste.

Examples are used tires, specific residues from the chemical industry and hazardous wastes from health care. Combustion includes co-firing with other fuels.

The renewable portions of industrial waste combusted with heat recovery are classified according to the biofuels which best describe them.

Black liquor – The alkaline-spent liquor obtained from the digesters during the production of sulphate or soda pulp required for paper manufacture. The lignin contained in the liquor burns to release heat when the concentrated liquor is sprayed into a recovery furnace and heated with hot gases at 900°C. Black liquor is used as a fuel in the pulping process.

Biogasoline – Liquid fuels derived from biomass and used in spark-ignition internal combustion engines.

Common examples are: bioethanol (including both hydrous and anhydrous ethanol); biomethanol; biobutanol; bio ETBE (ethyl-tertio-butyl-ether); and bio MTBE (methyl-tertio-butyl-ether). Biogasoline may be blended with petroleum gasoline or used directly in engines. The blending may take place in refineries or at or near the point of sale.

Biodiesels – Liquid biofuels derived from biomass and used in diesel engines.

Biodiesels obtained by chemical modification are a linear alkyl ester made by transesterification of vegetable oils or animal fats with methanol. The transesterification distinguishes biodiesel from straight vegetable and waste oils. Biodiesel has a flash point of around 150°C and a density of about 0.88 kg/litre. Biological sources of biodiesel include, but are not limited to, vegetable oils made from canola (rapeseed), soybeans, corn, oil palm, peanut or sunflower. Some liquid biofuels (straight vegetable oils) may be used without chemical modification and their use usually

requires modification of the engine.

A further category of diesel fuels can be produced by a range of thermal processes (including for example gasification followed by Fischer Tropsch synthesis, pyrolysis followed by hydrogenation, or conversion of sugar to hydrocarbons using microorganisms (e.g. yeast)). A wide range of biomass feedstocks, including cellulosic materials and algal biomass could be used in such processes.

Biodiesels may be blended with petroleum diesel or used directly in diesel engines.

Bio jet kerosene – Liquid biofuels derived from biomass and blended with or replacing jet kerosene. Bio jet kerosene can be produced by a range of thermal processes (including for example gasification followed by Fischer-Tropsch synthesis, pyrolysis followed by hydrogenation, or conversion of sugar to hydrocarbons using microorganisms (e.g. yeast)). A wide range of biomass feedstocks, including cellulosic materials and algal biomass could be used in such processes.

Other liquid biofuels – Includes liquid biofuels not elsewhere specified.

Biogases – Gases arising from the anaerobic fermentation of biomass and the gasification of solid biomass (including biomass in wastes).

The biogases from anaerobic fermentation are composed principally of methane and carbon dioxide and comprise landfill gas, sewage sludge gas and other biogases from anaerobic fermentation.

Biogases can also be produced from thermal processes (by gasification or pyrolysis) of biomass and are mixtures containing hydrogen and carbon monoxide (usually known as syngas) along with other components. These gases may be further processed to modify their composition and can be further processed to produce substitute natural gas.

The gases are divided into two groups according to their production: biogases from anaerobic fermentation and biogases from thermal processes.

Biogases are used mainly as a fuel but can

be used as a chemical feedstock.

ELECTRICITY AND HEAT

Electricity –The transfer of energy through the physical phenomena involving electric charges and their effects when at rest and in motion.

Electricity can be generated through different processes such as: the conversion of energy contained in falling or streaming water, wind or waves; the direct conversion of solar radiation through photovoltaic processes in semiconductor devices (solar cells); or by the combustion of fuels.

Electricity production in this Yearbook refers to gross production, which is the sum of the electrical energy production by all the generating units/installations concerned (including pumped storage) measured at the output terminals of the main generators.

Editorial note: as of the 2012 edition of the Yearbook, Table 1 changed in scope as described in the introduction. The total energy supply figure is now consistent with energy balances as defined within IRES and published in the *Energy Balances and Electricity Profiles*⁶ that are complementary to this publication. As such, see the changes in presentation for electricity from non-combustible fuels described below under General Notes.

Primary electricity refers to electrical energy from hydro, solar photovoltaics, wind, tide, wave and ocean sources.

Secondary electricity is defined as electricity derived from a product already accounted for within energy statistics. This includes electricity generated from combustible fuels, in addition to electricity coming from solar heat, nuclear heat, geothermal heat and heat from chemical sources.

Main activity producers – These are

enterprises which produce electricity or heat as their principal activity. Formerly known as public utilities, these enterprises may be privately or publicly owned companies.

Autoproducers (electricity) – These are enterprises which produce electricity but for whom the production is not their principal activity.

Autoproducers (heat) – These are enterprises which produce heat for sale but for whom the production is not their principal activity. Deliveries of fuels for heat generated by an establishment for its own purposes are classified within the part of final consumption where they are consumed, and not as transformation inputs.

Heat – The energy obtained from the translational, rotational and vibrational motion of the constituents of matter, as well as changes in its physical state.

Heat can be produced by different production processes, both primary and secondary. It is usually sold in the form of steam or hot water, and for the purposes of energy statistics it is important to note that heat only represents quantities of energy for sale (or generated and consumed directly by direct use of solar thermal or geothermal). This means that any quantities “generated” at an end-use site (for example through the combustion of coal to power a boiler, or an electric filament heating a kettle) are not considered within the scope of heat production.

In Tables 1 and 2, which follow energy balance methodology, the heat column includes primary heat from sources such as nuclear, solar thermal and geothermal which are used to generate electricity. These quantities are not taken into account in Table 34.

Uranium production – Comprises the U content of uranium ores and concentrates intended for treatment for uranium recovery.

⁶ Statistical Papers, Series W (United Nations publication).

ENERGY FLOW DEFINITIONS

Production is defined as the capture, extraction or manufacture of fuels or energy in forms which are ready for general use. In energy statistics, two types of production are distinguished, primary and secondary.

Primary production is the capture or extraction of fuels or energy from natural energy flows, the biosphere and natural reserves of fossil fuels within the national territory in a form suitable for use. Inert matter removed from the extracted fuels and quantities reinjected, flared or vented are not included. The resulting products are referred to as “primary” products.

Secondary production is the manufacture of energy products through the process of transformation of primary fuels or energy. The quantities of secondary fuels reported as production include quantities lost through venting and flaring during and after production. In this manner, the mass, energy and carbon within the primary source(s) from which the fuels are manufactured may be balanced against the secondary fuels produced. Fuels, electricity and heat produced are usually sold but may be partly or entirely consumed by the producer (but see the definition of autoproducer heat plants for an important exception.)

When considering complete energy balances (such as in Table 1, where total energy supply is displayed), or indeed adding together a mix of primary and secondary fuels (like Table 4), the distinction between primary and secondary production is crucial. Within a complete energy balance (or a coal table showing both primary and secondary energy), only primary energy is shown to avoid double counting of quantities transformed into secondary products. For the product-specific tables however, this distinction is not necessary as double counting does not apply, and so primary and/or secondary production is included under production to give a complete idea of the “supply” of that product. See individual table notes for details.

Imports of energy products comprise all fuel and other energy products entering the national territory. Goods simply being transported through a country (goods in transit) and goods temporarily admitted are excluded but re-imports, which are domestic goods exported but subsequently

readmitted, are included. The bunkering of fuel outside the reference territory by national merchant ships and civil aircraft engaged in international travel is excluded from imports. Fuels delivered to national merchant ships and civil aircraft which are outside of the national territory and are engaged in international travel should be classified as “International Marine” or “Aviation Bunkers”, respectively, in the country where such bunkering is carried out. Note that the “country of origin” of energy products should be recorded as a country from which goods were imported.

Exports of energy products comprise all fuel and other energy products leaving the national territory with the exception that exports exclude quantities of fuels delivered for use by merchant (including passenger) ships and civil aircraft, of all nationalities, during international transport of goods and passengers. Goods simply being transported through a country (goods in transit) and goods temporarily withdrawn are excluded but re-exports, foreign goods exported in the same state as previously imported, are included. Fuels delivered to foreign merchant ships and civil aircraft engaged in international travel are classified as “International Marine” or “Aviation Bunkers”, respectively. Note that “country of destination” of energy products (that is country of the last known destination as it is known at the time of exportation) should be recorded as a country to which these products are exported to.

For electricity, trade data include “goods in transit”, i.e. electricity transmitted through the country from one neighbour to another, as there is no practical way of discerning which quantities are re-exported and which are consumed by the transit country.

International Marine Bunkers are quantities of fuels delivered to merchant (including passenger) ships, of any nationality, for consumption during international voyages transporting goods or passengers. International voyages take place when the ports of departure and arrival are in different national territories. Fuels delivered for consumption by ships during domestic transportation, fishing or military uses are not included here. For the purposes of energy statistics International Marine Bunkers are not included in exports.

International Aviation Bunkers are quantities of fuels delivered to civil aircraft, of any nationality, for consumption during international flights transporting goods or passengers. International flights take place when the ports of departure and arrival are in different national territories. Fuels delivered for consumption by aircraft undertaking domestic or military flights are not included here. For the purposes of energy statistics International Aviation Bunkers are not included in exports.

Stocks – For the purposes of energy statistics, stocks are quantities of energy products that are held on the national territory and can be used to: (a) maintain service under conditions where supply and demand are variable in their timing or amount due to normal market fluctuations, or (b) supplement supply in the case of a supply disruption. Stocks used to manage a supply disruption may be called “strategic” or “emergency” stocks and are often held separately from stocks designed to meet normal market fluctuations. **Stock changes** are defined as the increase (stock build) or decrease (stock draw) in the quantity of stock over the reporting period and are thus calculated as the difference between the

closing and opening stocks.

Energy supply – is defined as energy production plus imports minus exports minus international marine bunkers minus international aviation bunkers minus stock changes. Depending on the table in this Yearbook, production can refer to either primary, secondary, or both primary and secondary production (see the note under production above).

Energy industries own use refers to consumption of fuels and energy for the direct support of the production, and preparation for use of fuels and energy. Quantities of fuels which are transformed into other fuels or energy are not included here but within the transformation use. Neither are quantities which are used within parts of the energy industry not directly involved in the activities listed in the definition. These quantities are reported within final consumption.

Final Consumption refers to all fuel and energy that is delivered to users for both their energy and non-energy uses which do not involve a transformation process.

CAPACITIES AND OTHER DEFINITIONS

CAPACITIES

Refinery capacity is the theoretical maximum capacity of crude oil refineries available for operation at the end of the reference year.

Net maximum electrical capacity is the maximum active power that can be supplied continuously, with all plants running, at the point of outlet (i.e., after taking the power supplies for the station auxiliaries and allowing for the losses in those transformers considered integral to the station). This assumes no restriction of interconnection to the network. Does not include overload capacity that can only be sustained for a short period of time (e.g., internal combustion engines momentarily running above their rated capacity). The net maximum electricity-generating capacity represents the sum of all individual plants' maximum capacities available to run continuously throughout a prolonged period of operation in a day. For annual data, the net maximum electrical capacity is considered as measured at the end of the reference year.

ENERGY RESOURCES AND RESERVES⁷

Hard Coal, Brown coal and Peat

Proved amount in place is the resource remaining in known deposits that has been carefully measured and assessed as exploitable under present and expected local economic conditions with existing available technology.

Proved recoverable reserves are the tonnage within the proved amount in place that can be recovered in the future under present and expected local economic conditions with existing available technology.

Estimated additional amount in place is the indicated and inferred tonnage additional to the proved amount in place that is of foreseeable economic interest. It includes estimates of amounts which could exist in unexplored extensions of known deposits or in undiscovered deposits in known coal-bearing areas, as well as amounts inferred through knowledge of

favourable geological conditions. Speculative amounts are not included.

Crude Oil and Natural Gas Liquids

Proved recoverable reserves are the quantity within the proved amount in place that can be recovered in the future under present and expected local economic conditions with existing available technology. Proved amount in place is the resource remaining in known natural reservoirs that has been carefully measured and assessed as exploitable under present and expected local economic conditions with existing available technology.

The **ratio of crude oil reserves to production (R/P ratio)** is used to show the length of time those reserves would last in years if production continued at the then-current level and there were no further increases in the proved recoverable reserves. The ratio is calculated by dividing the proved recoverable crude oil and NGL reserves (which for the most part refer to reserves at the end of 2014) by the production. These R/P ratios should be viewed with caution. The definition used for proved recoverable reserves is very restrictive and confined to those known reserves which can be recovered with reasonable certainty under existing economic conditions. The R/P ratios, therefore, can frequently give a very pessimistic impression of the expected life of a country's reserves. In addition, for some of those countries whose R/P ratios appear very large, it can reasonably be assumed that the figures for proved recoverable reserves include some unproved reserves.

Oil Shale and Bituminous Sands

Proved recoverable reserves are the amount, expressed as tonnage of recoverable synthetic oil that has been both carefully measured and has also been assessed as exploitable under present and expected local economic conditions with existing available technology.

⁷World Energy Resources 2016.
World Energy Council (WEC)

Natural Gas

Proved recoverable reserves are the volume within the proved amount in place that can be recovered in the future under present and expected local economic conditions with existing available technology.

Uranium

Reasonably assured resources refer to recoverable uranium that occurs in known mineral deposits of delineated size, grade and configuration such that the quantities which could be recovered within the given production cost ranges with currently proven mining and processing technology can be specified. Estimates of tonnage and grade are based on specific sample data and measurements of the deposits and on knowledge of deposit characteristics.

Inferred Resources refer to recoverable uranium (in addition to reasonably assured resources) that is inferred to occur, based on direct geological evidence, in extensions of well-explored deposits and in deposits in which geological continuity has been established, but where specific data and measurements of the deposits and knowledge of their characteristics are considered to be inadequate to classify the resource as reasonably assured resources.

Hydropower

Gross theoretical capability is the annual energy potentially available in the country if all natural flows were turbinized down to sea level or to the water level of the border of the country (if the water course extends into another country) with 100% efficiency from the machinery and driving water-works. Unless otherwise stated, the figures have been estimated on the basis of atmospheric precipitation and water runoff.

GENERAL NOTES

Calculation of primary energy equivalent for electricity and heat

As mentioned previously, the publication now treats electricity and heat consistently with IRES energy balances. Notably, this leads to the following notional efficiencies applying to electricity and heat generation (to back calculate the primary energy):

- 100% for electricity from hydro, wind, tide, wave, ocean and solar PV;
- 33% for electricity from nuclear heat or solar thermal;
- 100% for solar thermal heat;
- 50% for heat produced from geothermal heat;
- 10% for electricity from geothermal heat.

Consumption

Consumption throughout the *Yearbook* is defined consistently with the definition of final consumption in IRES, namely the sum of flows reflecting energy consumption by energy consumers, as well as non-energy use of energy products. As such, the publication should no longer have the same issues with negative consumption figures that previous versions did, when consumption was calculated based on supply flows and as such negative figures could appear for countries that exported secondary products.

Negative Supply

Negative supply can represent a residual or statistical difference between production and exports when a particular product is mainly exported, or when a transferred product is subsequently exported.

Time Period

The period to which the data refer is the calendar year, with the exception of the data of the following countries which refer to the fiscal year:

Afghanistan and Iran (Islamic Rep. of) - beginning 21 March of the year stated;

Australia, Bangladesh, Bhutan, Egypt (for the latter two, electricity only), Nepal - ending June of the year stated;

Pakistan - starting July of the year stated

India, Japan and Myanmar - beginning April of the year stated.

Trade data

Figures displayed for international trade by partner country in Tables 6, 15 and 28 are based on data from the International Energy Agency and from the United Nations Statistics Division COMTRADE (Commodity Trade Statistics). The total of all exports will likely differ from the figures given in other tables because not all of the importers are included, and also possibly because of definitional differences between data sources.

Per Capita Data

Data on a *per capita* basis use population data from the United Nations Population Division as a denominator. These indicators may sometimes show differences for certain years compared to previous versions of this publication, due to revisions made by the Population Division rather than changes to the underlying energy data.

Coverage

As Table 1 contains data back to 1990, data are included for former countries such as the Union of Soviet Socialist Republics, and older versions of countries such as Ethiopia which have since had territories split from them.

GEOGRAPHICAL NOTES

Australia – Data exclude the overseas territories.

Bonaire, Sint Eustatius, Saba – Data prior to 2012 are included in Netherlands Antilles (former).

China – Data exclude Hong Kong and Macao Special Administrative Regions (Hong Kong SAR and Macao SAR) and Taiwan Province.

Curaçao – Data prior to 2012 are included in Netherlands Antilles (former).

Czechoslovakia – prior to 1993, refers to the former Czechoslovakia composed of Czechia and Slovakia.

Denmark – Data exclude Greenland and the Danish Faroes.

France – Data up to 2010 include Monaco and exclude the following overseas departments and territories: Guadeloupe, French Guiana, Martinique, Mayotte, New Caledonia, French Polynesia, Réunion, Saint Barthélemy, Saint Martin, St. Pierre and Miquelon, and Wallis and Futuna. From 2011 onwards, data include Monaco and the overseas departments (Guadeloupe, French Guiana, Martinique, Mayotte and Réunion), excluding the overseas collectivities: New Caledonia, French Polynesia, Saint Barthélemy, Saint Martin, St. Pierre and Miquelon, and Wallis and Futuna.

French Guiana – Data after 2010 are included in France.

Germany – Through the accession of the **German Democratic Republic** to the **Federal Republic of Germany** with effect from 3 October 1990, the two German States united to form one sovereign state. Data for 1990 are shown separately for the former states.

Guadeloupe – Data after 2010 are included in France.

Indonesia – Data include Timor-Leste until 2001.

Italy – Data include San Marino and the Holy See.

Japan – Data include Okinawa.

Kuwait – The data for crude oil production include 50 per cent of the output of the Neutral Zone.

Martinique – Data after 2010 are included in France.

Mayotte – Data after 2010 are included in France.

Netherlands – Data exclude Suriname and the Netherlands Antilles (former).

Netherlands Antilles (former) – The country, comprising Bonaire, Curaçao, Saba, Sint Eustatius and Sint Marteen (Dutch part), was dissolved on 10 October 2010. For the purposes of this yearbook, data up to 2011 refer to the former territory of the Netherlands Antilles as it was known prior to 10 October 2010.

Pacific Islands – Until 1991, Trust Territory comprising Federated States of Micronesia, Marshall Islands, Northern Mariana Islands and Palau.

Portugal – Data include the Azores and Madeira.

Republic of Moldova – Data exclude Transnistria and the municipality of Bender.

Réunion – Data after 2010 are included in France.

Saudi Arabia – Data for crude oil production include 50 per cent of the output of the Neutral Zone.

Serbia – Data exclude Kosovo, which is shown separately.

Serbia and Montenegro – Data exclude Kosovo from 2000 onwards. As a former country/area, it appears in this edition only in Table 1.

Sint Maarten (Dutch part) – Data prior to 2012 are included in Netherlands Antilles (former).

South Sudan – Data prior to 2012 are included in Sudan (former).

Spain – Data include the Canary Islands.

Sudan – Data prior to 2012 are included in Sudan (former).

Sudan (former) – South Sudan became an independent state on 9 July 2011. This country represents the whole territory of Sudan as it was on 1 January 2011 for data up to and including 2011.

Switzerland – Data include Liechtenstein for oil statistics.

Ukraine – The Government of Ukraine has informed the United Nations that it is not in a position to provide statistical data concerning the Autonomous Republic of Crimea and the city of Sevastopol.

Union of Soviet Socialist Republics – Referred to as USSR, comprised up to 1990 Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Republic of Moldova, Russian Federation,

Tajikistan, Turkmenistan, Ukraine and Uzbekistan.

United Kingdom – Shipments of coal and oil to Jersey, Guernsey and the Isle of Man from the United Kingdom are not classed as exports. Supplies of coal and oil to these islands are, therefore, included as part of UK supply. Exports of natural gas to the Isle of Man are included with the exports to Ireland.

United States – Includes the 50 states and the District of Columbia. Oil statistics as well as coal trade statistics also include Puerto Rico, Guam, the U.S. Virgin Islands, American Samoa, Johnston Atoll, Midway Islands, Wake Island and the Northern Mariana Islands.

Yemen – On 22 May 1990 **Democratic Yemen** and **Yemen Arab Republic** merged to form a single State. Since that date they have been represented as one Member with the name 'Yemen'. Data for 1990 are shown separately for the former states.

Yugoslavia – Data until 1991 refer to the former Socialist Federal Republic of Yugoslavia, namely Bosnia and Herzegovina, Croatia, North Macedonia, Montenegro, Slovenia and Serbia (including Kosovo).

COUNTRY-SPECIFIC INFORMATION

Armenia – Other vegetal material and residues data are available from 2012 onward, animal waste production and consumption are available from 2015 onward.

Belarus – Prior to 2013, kerosene-type jet fuel is reported under other oil products.

China – Data for other kerosene include kerosene-type jet fuel until 2013.

In the 2018 edition, the newly released data for 2018 only were included, but the revisions for the years 1990-2017 were not available on time for the publication.

China, Hong Kong SAR – Data on kerosene-type jet fuel include aviation gasoline and other kerosene.

China, Macao SAR – For confidentiality reasons, some data on coal and coal products, petroleum products and biomass are not available.

Egypt – Data for lubricants are included with other oil products for 2011-2013.

Estonia – There are breaks in the series of coke oven gas and gas works gas, as from 2018 onward these products include the breakdown of oil shale gases. Revisions are pending.

Eswatini – There are breaks in the series of heat, fuelwood and bagasse, following the reclassification of input for non-sold heat in autoproductors heat plants. This consumption is now reported under final use

France – For confidentiality reasons, the category blast furnace gas also includes coke oven gas and other recovered gases for 2018 and 2019.

Germany – From 2018 onward, due to a change in the reporting methodology, Imports and Exports do not include transit volumes.

Greenland – Data for kerosene-type jet fuel include other kerosene.

Israel – For confidentiality reasons, data on electricity from hydro and wind are not available

for 2016.

Kazakhstan – The Committee of Statistics of Kazakhstan constantly works on improving data quality and aligning their data collection and dissemination system with the International Recommendations for Energy Statistics.

Supply of some oil products for 2016 and 2017 as well as coke oven throughputs from 2014 until 2018 are under verification.

Lesotho – In 2017, the Bureau of Statistics conducted the “Household Energy Consumption Survey 2017” in order to establish a baseline for energy consumption in households. The data on supply and consumption of animal waste and fuelwood for 2017 are based on the results of this new survey. Supply and consumption data of animal waste and fuelwood from 2009 to 2016 were estimated by UNSD to avoid breaks in the time series. Revisions are pending.

Madagascar – Data for bitumen include petroleum coke.

Morocco – There is a break in the series of primary oil and oil products, following the refinery closure in August 2015.

Pakistan – Data on wind and solar electricity and on electricity from other sources are all reported as wind electricity.

Russian Federation – The main source of Russian trade statistics is the Federal Customs Service of the Russian Federation. As a result, some of the figures may not include the mutual trade with the Member States of the Eurasian Economic Union. Some of the crucial trade datapoints were estimated by UNSD in order to avoid undercounting on the world level and for international comparison purposes.

Kerosene-type jet fuel statistics are confidential, and as such were estimated by UNSD.

Ethane figures are under investigation and should be treated with caution.

Senegal – The sources of trade data for 2017 are the Bureaux de change au Sénégal and

this may lead to breaks in time series between 2016 and 2017.

Manantali dam and Félou hydro electricity plants are situated in Mali, but are owned by Mali, Senegal and Mauritania, supplying electricity to these three countries. Following the *International Recommendations for Energy Statistics*, electricity obtained by Senegal from these plants are counted as imports, and not as Senegalese hydro electricity production.

Tajikistan – The Agency on Statistics under President of the Republic of Tajikistan is constantly working on increasing transparency and improving the quality of energy data.

Starting with 2016, more granular data on coal consumption are available. This leads to breaks in time series between 2015 and 2016 data.

New information on quantities of fuelwood consumed for energy purposes in Tajikistan are

available for 2016 as a result of a survey conducted by the Agency on Statistics. For historical data, revisions are pending.

Ukraine – For confidentiality reasons, data on the following products (mainly on production) may not be available or may be included with other products: anthracite (included with other bituminous coal), sub-bituminous coal (included with other bituminous coal), lignite (included with peat), patent fuel (included with peat briquettes), aviation gasoline, kerosene-type jet fuel, other kerosene, petroleum coke, paraffin waxes and white spirit (the latter three included with other oil products), gasworks gas (included with other recovered gases).

Uzbekistan – In 2019, the State Committee of the Republic of Uzbekistan on Statistics released more granular energy supply information, starting with 2013 data. As a result, there are breaks in time series for many products and flows. For historical data, revisions are pending.

UNITS OF MEASUREMENT AND CONVERSION

Metric units of measurement are used throughout the *Yearbook*. The following tables provide the necessary factors for converting energy data from one measurement system (mass, volume or heat) to another. Unless otherwise stated in the Table Notes, in the case of solid fuels, liquid fuels and gases, the conversions are based on the net calorific value.

The comparison between different fuels is presented in metric tons of coal equivalent (TCE, Table 4), and terajoules (Tables 1, 2, 3 and 12) on the basis of the heat energy which may be obtained from each of them. One TCE is defined as 0.0293076 TJ, or 29307.6 MJ. This is derived from the standard coal equivalency of 7000 calories per gram.

The procedure to convert from original units to the common unit terajoule is as follows:

- Data in original (mass) units multiplied by the factors in Table I will give data in terajoules.

Further, to convert electricity data to terajoules, the following energy equivalence is applied: 1 GWh = 3.6 TJ.

Data on natural gas are collected in terajoules on a gross calorific value basis by convention. When comparing natural gas with other energy sources, it is more appropriate to compare useful energy, and thus the data have been converted to be on a net calorific basis by multiplying them by 0.9.

Table I
NET CALORIFIC VALUES OF ENERGY PRODUCTS
GJ/ton

	PRODUCTION, EXPORTS AND CHANGES IN STOCKS			
	2015	2016	2017	2018
Standard factor	25.8	25.8	25.8	25.8
Albania	14.3	14.3	20.4	20.4
Argentina	24.7	24.7	24.7	24.7
Australia	27.0	27.0	27.0	26.9
Austria	28.3	28.1	28.4	28.4
Azerbaijan	27.7	27.7	27.7	27.7
Bangladesh	20.9	20.9	20.9	20.9
Belarus	25.6	25.2	24.5	23.7
Belgium	27.8	27.8	29.4	29.4
Bosnia and Herzegovina	30.7	29.1	29.1	29.1
Botswana	23.6	23.6	23.6	23.6
Brazil	16.0	15.8	16.8	16.7
Bulgaria	27.8	28.0	25.2	27.4
Canada	25.0	25.0	25.0	25.0
Chile	27.8	16.8	17.0	16.7
China	20.4	20.8	20.8	20.8
China, Hong Kong SAR	26.4	26.4	26.4	26.4
Colombia	27.2	27.2	27.2	27.2
Croatia	25.1	25.1	25.1	25.1
Czechia	27.0	27.5	26.6	26.5
Denmark	24.1	24.3	24.3	26.6
Egypt	25.7	25.7	25.7	25.8
Estonia	27.2	27.2	22.0	22.0
Finland	26.4	26.7	26.6	26.8
Georgia	25.3	25.2	25.2	27.6
Germany	30.0	29.1	29.1	29.1
Greece	25.9	25.5	23.3	25.9
Guatemala	28.9	28.9	28.9	28.9
Hungary	29.6	31.1	29.4	30.0
Iceland	28.1	28.1	28.1	27.8
India	16.7	16.5	16.1	16.0
Indonesia	25.8	25.9	25.9	25.9
Iran (Islamic Republic of)	27.8	27.8	28.0	28.0
Ireland	25.7	25.1	25.8	25.8
Israel	25.0	24.9	24.9	24.9
Japan	25.6	21.4	24.4	23.2
Kazakhstan	18.6	18.6	18.6	18.9
Korea, Democratic People's Republic of	26.5	26.5	26.5	26.5
Korea, Republic of	18.6	18.6	19.4	19.4
Kyrgyzstan	18.6	18.6	18.6	18.6
Latvia	23.9	23.8	24.1	24.1
Lithuania	25.1	25.1	25.1	25.1
Malaysia	26.4	26.4	26.4	26.4

Table I (continued)

NET CALORIFIC VALUES OF ENERGY PRODUCTS
GJ/ton

PRODUCTION, EXPORTS AND CHANGES IN STOCKS

HARD COAL	2015	2016	2017	2018
Standard factor	25.8	25.8	25.8	25.8
Mauritius	25.8	25.8	26.0	26.0
Mexico	29.2	29.3	29.3	29.3
Mongolia	28.3	28.3	28.3	28.3
Morocco	27.6	27.6	27.6	27.6
Mozambique	27.3	27.0	26.9	26.8
Myanmar	23.3	23.3	23.3	23.3
Namibia	22.7	22.7	22.7	22.7
Nepal	25.1	25.1	25.1	25.1
Netherlands	25.0	25.3	26.2	26.4
New Caledonia	26.0	26.0	26.0	26.0
New Zealand	30.1	30.2	29.7	28.7
Niger	16.0	16.0	16.0	16.0
North Macedonia	26.1	26.1	26.2	27
Pakistan	18.8	18.8	18.8	18.8
Peru	28.3	27.3	27.1	26.9
Poland	24.0	24.0	23.9	23.9
Portugal	24.7	24.7	24.9	24.8
Republic of Moldova	23.9	23.9	24.2	24.9
Romania	25.8	25.7	25.6	25.6
Russian Federation	26.2	26.1	26.1	26.1
Serbia	25.7	25.7	25.6	27.4
Slovakia	28.9	29.0	29.0	28.9
Slovenia	27.0	27.3	27.4	27.3
South Africa	23.7	23.7	23.7	23.7
Spain	19.8	19.6	19.5	19.6
Sri Lanka	29.3	29.3	29.3	29.3
Sweden	28.9	29.1	29.0	28.7
Tajikistan	18.6	25.0	25.1	25.0
Thailand	26.4	26.4	26.4	26.4
Turkey	25.5	24.2	24.6	24.9
Ukraine	23.9	24.1	23.4	23.2
United Kingdom	24.9	25.1	25.1	25.1
United States	26.9	27.0	27.1	27.2
Uruguay	25.8	25.8	25.8	25.8
Uzbekistan	18.6	18.6	18.6	18.6
Venezuela (Bolivarian Republic of)	30.6	30.6	30.6	30.6
Viet Nam	23.4	23.4	23.4	23.4
Zambia	24.7	24.7	24.7	24.7
Zimbabwe	27.0	27.0	27.0	27.0

Table I (continued)

NET CALORIFIC VALUES OF ENERGY PRODUCTS
GJ/ton

PRODUCTION, EXPORTS AND CHANGES IN STOCKS

BROWN COAL	2015	2016	2017	2018
Standard factor	14.0	14.0	14.0	14.0
Armenia	7.8	7.8	7.8	11.9
Australia	12.0	12.4	12.6	13.1
Austria	20.6	20.5	20.3	21.1
Belgium	22.0	22.0	21.8	22.6
Bosnia and Herzegovina	10.1	10.8	10.7	10.6
Bulgaria	6.8	6.9	6.9	7.0
Cambodia	19.9	19.9	19.9	19.9
Canada	16.9	16.7	16.7	16.5
Croatia	16.0	16.9	17.1	17.1
Czechia	12.6	12.5	12.5	12.6
Georgia	17.0	17.0	17.0	17.0
Germany	9.0	9.0	9.0	9.0
Greece	5.1	5.1	5.1	4.9
Hungary	6.9	6.6	6.7	6.7
India	9.5	9.5	9.5	9.5
Indonesia	21.1	21.1	21.2	21.2
Kazakhstan	18.5	18.6	19.5	19.5
Korea, Democratic People's Republic of	17.6	17.6	17.6	17.6
Korea, Republic of	21.4	21.4	21.4	21.4
Kosovo	7.8	7.8	7.8	7.8
Kyrgyzstan	14.7	14.7	14.7	14.7
Lao, People's Democratic Republic	10.9	10.9	10.8	9.6
Lithuania	14.7	22.7	22.7	22.7
Mexico	20.0	19.8	19.6	19.6
Mongolia	14.4	14.4	14.4	14.4
Montenegro	9.2	9.2	9.2	9.6
Myanmar	16.3	16.3	16.3	16.3
Netherlands	20.0	20.0	20.0	20.0
New Zealand	19.6	19.2	19.5	19.7
North Macedonia	6.2	6.1	7.0	6.7
Philippines	22.1	22.1	22.1	22.1
Poland	8.2	8.1	8.3	8.3
Romania	7.9	7.7	7.3	7.1
Russian Federation	14.9	14.9	14.9	14.9
Serbia	8.0	7.8	7.6	7.4
Slovakia	10.7	13.8	10.2	10.2
Slovenia	11.4	10.2	11.6	11.7
Spain	13.4	13.5	13.5	13.4
Tajikistan	14.7	17.0	17.0	17.0
Thailand	10.7	10.6	10.6	10.6
Turkey	8.8	8.6	8.6	8.0
United States	18.3	18.1	18.2	18.3
Uzbekistan	14.7	14.7	14.7	14.7

Table I (continued)

NET CALORIFIC VALUES OF ENERGY PRODUCTS
GJ/ton

PRODUCTION, EXPORTS AND CHANGES IN STOCKS

COKE OVEN COKE	2015	2016	2017	2018
Standard factor	28.2	28.2	28.2	28.2
Argentina	28.5	28.5	28.5	28.5
Australia	27.0	27.0	27.0	27.0
Austria	28.6	28.9	28.6	27.9
Belgium	29.3	29.3	29.3	29.3
Bosnia and Herzegovina	28.5	28.5	28.5	28.5
Brazil	28.9	28.9	28.9	28.9
Bulgaria	28.5	28.5	28.5	28.5
Belarus	29.0	29.0	29.0	29.0
Canada	27.5	27.5	27.5	27.5
Chile	28.6	28.6	28.6	30.1
China	28.5	28.5	28.5	28.4
Colombia	20.1	20.1	20.1	20.1
Croatia	29.3	29.3	29.3	29.3
Czechia	28.6	28.7	28.9	28.5
Denmark	29.3	29.3	29.3	29.3
Estonia	28.5	28.5	28.5	28.5
Finland	29.3	29.3	29.3	29.3
Georgia	29.3	29.3	29.3	29.3
Germany	28.7	28.7	28.7	28.7
Hungary	29.8	29.9	29.6	29.4
Iceland	26.7	26.7	26.7	26.8
Japan	29.2	29.2	29.2	29.2
Kazakhstan	26.9	26.8	26.9	26.9
Korea, Republic of	28.9	28.9	28.9	28.9
Luxembourg	28.5	28.5	28.5	28.5
Mexico	28.7	28.4	28.4	28.4
Netherlands	28.5	28.5	28.5	28.5
New Zealand	29.5	29.5	29.5	29.5
Peru	28.2	28.2	28.2	28.2
Poland	28.0	28.0	28.0	28.0
Portugal	30.7	30.4	30.8	30.8
Romania	26.4	26.4	26.4	26.4
Russian Federation	29.0	29.0	29.0	29.0
Serbia	29.0	29.0	29.0	29.0
Slovakia	28.2	28.3	28.4	28.4
Slovenia	30.1	30.0	30.1	30.1
South Africa	26.5	26.5	26.5	26.5
Spain	26.8	26.8	27.3	27.3
Sweden	28.1	28.1	28.1	28.1
Turkey	27.2	27.0	27.0	27.0
Ukraine	25.1	25.1	25.1	25.1
United Kingdom	29.8	29.8	29.8	29.8
United States	28.9	28.9	28.9	28.9
Zimbabwe	25.1	25.1	25.1	25.1

Table I (continued)

NET CALORIFIC VALUES OF ENERGY PRODUCTS
GJ/ton

PRODUCTION, EXPORTS AND CHANGES IN STOCKS

PATENT FUEL	2015	2016	2017	2018
Standard factor	20.7	20.7	20.7	20.7
Austria	31.0	31.0	31.0	31.0
Belgium	30.5	30.5	30.5	30.5
Germany	31.4	31.4	31.4	31.4
Korea, Republic of	18.6	18.6	19.4	19.4
Luxembourg	28.2	28.2	28.2	28.2
Poland	23.8	23.2	23.2	23.2
Slovakia	28.0	28.0	28.0	28.0
United Arab Emirates	29.0	29.0	29.0	29.0
United Kingdom	28.3	28.3	28.3	28.3
Uzbekistan	29.0	29.0	29.0	29.0
BROWN COAL BRIQUETTES	2015	2016	2017	2018
Standard factor	20.7	20.7	20.7	20.7
Australia	21.0	21.0	21.0	21.0
Austria	19.8	19.8	19.8	19.8
Belgium	20.7	20.7	20.7	20.7
Bulgaria	13.4	11.6	12.6	12.9
Czechia	19.8	23.4	23.3	22.9
Germany	21.2	21.4	21.1	21.1
Hungary	19.1	19.0	19.6	19.3
India	20.0	20.0	20.0	20.0
Ireland	19.8	19.8	19.8	19.8
Luxembourg	22.2	22.2	22.2	22.2
Mexico	18.0	18.0	18.0	18.0
Netherlands	20.0	20.0	20.0	20.0
Poland	17.5	17.5	17.5	17.5
Serbia	17.7	17.7	17.6	17.8
Slovakia	17.9	17.2	17.6	17.6
PEAT	2015	2016	2017	2018
Standard factor	9.8	9.8	9.8	9.8
Belarus	10.1	10.0	9.4	9.7
Burundi	14.7	14.7	14.7	14.7
Estonia	10.7	10.7	10.1	10.1
Falkland Islands	9.5	9.5	9.5	9.5
Finland	10.1	10.0	9.9	9.9
Ireland	9.0	8.9	8.7	8.7
Latvia	10.1	10.1	10.1	10.1
Lithuania	11.7	11.7	11.7	11.7
Romania	8.8	8.8	8.8	8.8
Russian Federation	10.0	10.0	10.0	10.0
Sweden	12.5	12.5	12.5	12.5
Ukraine	9.7	9.7	9.7	9.7

Table I (continued)

NET CALORIFIC VALUES OF ENERGY PRODUCTS
GJ/ton

PRODUCTION, EXPORTS AND CHANGES IN STOCKS

OIL SHALE	2015	2016	2017	2018
Standard factor	8.9	8.9	8.9	8.9
Estonia	9.0	8.3	8.0	9.2
Israel	4.0	4.0	4.0	4.0
CRUDE OIL	2015	2016	2017	2018
Standard factor	42.3	42.3	42.3	42.3
Azerbaijan	43.1	43.1	43.1	43.1
Australia	44.0	44.0	44.0	44.0
Austria	42.5	42.5	42.5	42.5
Belgium	42.2	42.2	42.2	42.2
Brazil	42.2	42.2	42.3	42.3
Canada	42.8	42.8	42.8	42.8
Chile	43.2	43.2	43.2	43.2
China	41.9	41.9	41.9	41.9
Czechia	42.4	42.4	42.4	42.8
Denmark	43.0	43.0	43.0	43.0
Finland	42.7	42.7	42.7	42.7
France	42.8	42.8	42.8	42.8
Georgia	42.5	42.5	42.5	42.5
Germany	42.5	42.5	42.5	42.5
Greece	38.2	38.2	38.2	38.2
China, Hong Kong Special Administrative Region	42.4	42.5	42.5	42.5
Hungary	41.8	41.8	41.8	41.8
Ireland	42.8	42.8	42.8	42.8
Israel	42.5	42.5	42.5	42.5
Italy	41.9	41.9	41.9	41.9
Japan	42.1	42.1	42.0	42.0
Korea, Republic of	42.7	42.7	42.2	42.2
Lithuania	41.9	42.3	42.3	42.3
Mexico	43.5	43.5	43.5	43.5
Morocco	42.4	42.4	42.4	42.4
Netherlands	42.7	42.7	42.7	42.7
New Zealand	43.6	43.6	43.6	43.6
Norway	41.1	42.2	43.4	43.4
Peru	43.0	43.0	43.0	43.0
Poland	42.7	42.5	42.1	42.5
Portugal	43.0	43.0	43.0	43.0
Slovakia	41.2	43.2	43.3	43.3
Spain	42.3	42.3	42.3	42.3
Sweden	42.2	42.2	42.2	42.2
Switzerland	43.2	43.2	43.2	43.2
Turkey	44.2	44.3	44.3	44.3
United Kingdom	43.4	43.4	43.4	43.4
United States	42.6	42.7	42.7	42.6

Table I (continued)

NET CALORIFIC VALUES OF ENERGY PRODUCTS

GJ/ton

PRODUCTION, EXPORTS AND CHANGES IN STOCKS

NATURAL GAS LIQUIDS	2015	2016	2017	2018
Standard factor	44.2	44.2	44.2	44.2
Australia	45.4	45.4	45.4	45.4
Austria	42.5	42.5	42.5	42.5
Armenia	34.7	34.7	34.7	34.7
Belgium	45.2	45.2	45.2	45.2
Canada	45.2	45.2	45.2	45.2
Chile	48.1	48.1	48.1	48.1
Equatorial Guinea	47.3	47.3	47.3	47.3
Finland	44.0	44.0	44.0	44.0
France	42.0	42.0	42.0	42.0
Hungary	43.0	43.0	43.0	43.0
Japan	45.4	45.6	45.3	45.3
Mexico	41.2	41.3	41.4	41.4
Netherlands	44.0	44.0	44.0	44.0
New Zealand	45.8	45.8	45.8	45.8
Norway	43.8	43.8	43.8	43.8
Peru	42.1	42.1	42.1	42.1
Republic of Moldova	42.0	42.0	42.0	42.0
Slovakia	37.0	42.4	42.0	42.0
United Kingdom	45.3	45.3	45.3	45.3
United States	46.7	46.4	46.2	44.8
REFINERY FEEDSTOCKS	2015	2016	2017	2018
Standard factor	43.0	43.0	43.0	43.0
Australia	43.3	43.3	43.3	43.3
Austria	42.6	42.1	42.3	42.3
Belgium	42.2	42.2	42.2	42.1
Canada	42.5	42.5	42.5	42.5
Chile	44.8	44.8	44.8	44.8
Czechia	40.2	40.2	40.2	40.2
Denmark	42.7	42.7	42.7	42.7
Finland	42.5	42.5	42.5	42.5
France	41.9	41.9	41.9	41.9
Germany	42.5	42.5	42.5	42.5
Greece	41.3	41.3	41.3	41.3
Hungary	41.8	41.8	41.8	41.8
Ireland	44.6	44.6	44.6	44.6
Israel	44.8	44.8	44.8	44.8
Italy	42.5	42.5	42.5	42.5
Japan	42.5	42.5	42.5	42.5
Korea, Republic of	44.8	44.8	47.2	47.2
Lithuania	44.4	41.4	41.5	42.3
Mexico	42.4	42.4	42.4	42.4
Morocco	41.9	41.9	41.9	41.9

Table I (continued)

NET CALORIFIC VALUES OF ENERGY PRODUCTS

GJ/ton

PRODUCTION, EXPORTS AND CHANGES IN STOCKS

REFINERY FEEDSTOCKS	2015	2016	2017	2018
Standard factor	43.0	43.0	43.0	43.0
Netherlands	44.0	44.0	41.9	41.8
New Zealand	44.0	43.9	43.9	43.9
Norway	42.3	42.3	42.3	42.3
Poland	42.5	43.0	43.0	43.0
Portugal	42.6	42.6	42.6	42.6
Republic of Moldova	41.6	41.6	41.6	41.6
Slovakia	42.0	42.0	43.9	43.9
Spain	42.5	42.5	42.5	42.5
Sweden	44.2	44.2	44.2	44.2
Switzerland	43.7	43.7	43.7	43.7
Turkey	43.5	43.5	41.5	41.5
United Kingdom	42.0	42.0	42.0	42.0
United States	43.5	43.5	43.5	43.5
OTHER HYDROCARBONS	2015	2016	2017	2018
Standard factor	36.0	36.0	36.0	36.0
Canada	41.9	41.9	41.9	41.9
Estonia	39.4	39.4	39.4	39.4
Finland	49.1	49.1	49.1	49.5
Hungary	40.0	40.0	40.0	40.0
Ireland	46.7	47.2	47.2	47.5
Israel	41.9	41.9	41.9	41.9
Latvia	39.4	39.4	39.4	39.4
Mexico	41.9	41.9	41.9	41.9
Poland	42.5	42.5	42.5	42.5
Portugal	120.0	120.0	120.0	120.0
Serbia	120.0	120.0	120.0	120.0
Slovakia	41.5	41.5	41.5	41.5
Turkey	41.9	41.9	41.9	41.9
United Kingdom	28.2	28.2	28.2	28.2
United States	51.0	51.0	51.0	51.0
ADDITIVES/BLENDING COMPONENTS	2015	2016	2017	2018
Standard factor	30.0	30.0	30.0	30.0
Canada	25.1	25.1	25.1	25.1
Chile	22.7	22.7	22.7	22.7
Czechia	39.5	39.5	39.5	39.5
Equatorial Guinea	20.9	20.9	20.9	20.9
Finland	42.5	42.5	42.5	42.5
France	25.1	25.1	25.1	25.1
Germany	37.5	37.5	37.1	37.1
Greece	41.3	41.3	41.3	41.3

Table I (continued)

NET CALORIFIC VALUES OF ENERGY PRODUCTS
GJ/ton

PRODUCTION, EXPORTS AND CHANGES IN STOCKS

ADDITIVES/BLENDING COMPONENTS	2015	2016	2017	2018
Standard factor	30.0	30.0	30.0	30.0
Italy	37.0	37.0	37.0	37.0
Korea, Republic of	41.9	41.9	44.1	44.1
Lithuania	41.9	41.9	41.9	41.9
Mexico	37.0	38.7	34.1	34.1
Netherlands	38.4	38.7	37.4	38.8
Norway	36.8	36.8	36.8	36.8
Poland	40.2	40.2	40.2	40.2
Portugal	37.0	37.0	37.0	37.0
Slovakia	42.1	42.0	42.0	42.0
Sweden	25.1	25.1	39.9	39.9
Switzerland	41.3	41.3	41.3	41.3
Turkey	25.1	25.1	25.1	25.1
United Kingdom	31.9	32.1	32.1	33.3
United States	37.9	37.9	37.9	37.9

Table I (continued)

NET CALORIFIC VALUES OF ENERGY PRODUCTS
GJ/ton

IMPORTS				
HARD COAL	2015	2016	2017	2018
Standard factor	25.8	25.8	25.8	25.8
Albania	25.2	25.2	25.2	25.2
Argentina	28.9	28.4	28.8	28.8
Armenia	26.7	26.7	26.7	26.7
Australia	27.8	27.6	28.1	27.9
Austria	28.3	28.1	28.4	28.4
Azerbaijan	27.7	27.7	27.7	27.7
Bangladesh	20.9	20.9	20.9	20.9
Belarus	25.6	25.2	24.5	23.7
Belgium	27.8	27.8	29.4	29.4
Bosnia and Herzegovina	30.7	29.1	29.1	29.1
Brazil	27.4	27.7	27.7	27.5
Bulgaria	27.8	28.0	25.2	27.4
Canada	28.0	28.0	27.9	28.0
Chile	24.0	23.9	24.1	23.9
China	17.9	18.5	18.3	17.8
China, Hong Kong SAR	26.4	26.4	26.4	26.4
Colombia	27.2	27.2	27.2	27.2
Croatia	25.1	25.1	25.1	25.1
Czechia	25.5	26.1	26.5	26.2
Denmark	24.1	24.3	24.3	26.6
Egypt	25.7	25.7	25.7	25.8
Estonia	27.2	27.2	22.0	22.0
Finland	26.4	26.7	26.6	26.8
Georgia	27.6	27.6	27.6	27.6
Germany	27.1	27.5	26.6	26.7
Greece	25.9	25.5	23.3	25.9
Guatemala	28.9	28.9	28.9	28.9
Hungary	29.6	31.1	29.4	30.0
Iceland	28.1	28.1	28.1	27.8
India	26.3	26.5	26.6	26.8
Indonesia	28.2	28.2	28.2	28.2
Iran (Islamic Republic of)	28.1	28.1	26.1	25.8
Ireland	25.7	25.1	25.8	25.8
Israel	25.0	24.9	24.9	24.9
Japan	25.6	25.5	25.9	25.9
Jordan	26.7	26.7	26.7	26.7
Kazakhstan	18.6	18.6	18.6	22.1
Korea, Democratic Republic of	25.8	25.8	25.8	26.5
Korea, Republic of	25.5	25.5	24.8	24.8
Kosovo	22.5	22.5	22.5	27.0
Kyrgyzstan	20.7	20.8	20.5	20.9
Latvia	23.9	23.8	24.1	24.1

Table I (continued)

NET CALORIFIC VALUES OF ENERGY PRODUCTS
GJ/ton

IMPORTS				
HARD COAL	2015	2016	2017	2018
Standard factor	25.8	25.8	25.8	25.8
Lebanon	27.7	27.7	27.7	27.7
Lithuania	25.1	25.1	25.1	25.1
Luxembourg	24.7	24.7	24.6	24.6
Malaysia	26.4	26.4	26.4	26.4
Mauritius	25.8	25.8	26.0	26.0
Mexico	26.7	26.1	26.0	26.0
Mongolia	28.6	28.6	28.6	28.6
Morocco	27.6	27.6	27.6	27.6
Myanmar	23.3	23.3	23.3	23.3
Namibia	22.7	22.7	22.7	22.7
Nepal	25.1	25.1	25.1	25.1
Netherlands	25.0	25.3	26.2	26.4
New Caledonia	26.0	26.0	26.0	26.0
New Zealand	28.1	26.0	26.6	27.0
North Macedonia	26.1	26.1	26.2	27.0
Pakistan	27.6	27.6	27.6	27.6
Paraguay	28.1	28.1	28.1	28.1
Peru	30.5	30.5	30.5	30.5
Poland	24.8	24.6	24.9	24.2
Portugal	24.7	24.7	24.9	24.8
Republic of Moldova	23.8	24.8	25.2	24.9
Romania	25.8	25.7	25.6	25.6
Russian Federation	25.4	25.3	25.6	25.7
Senegal	25.9	25.9	25.9	25.9
Serbia	25.7	25.7	25.6	27.5
Slovakia	28.9	29.0	29.0	28.9
Slovenia	27.0	27.3	27.4	27.3
South Africa	31.0	31.0	31.0	31.0
Spain	24.0	24.1	24.1	24.0
Sri Lanka	29.3	29.3	29.3	29.3
Sweden	28.9	29.1	29.0	28.7
Switzerland	25.5	25.5	25.5	25.5
Tajikistan	18.6	25.0	25.0	25.0
Thailand	26.4	26.4	26.4	26.4
Turkey	26.7	26.8	26.7	26.2
Ukraine	25.0	25.8	25.5	26.0
United Arab Emirates	27.8	27.7	27.7	27.8
United Kingdom	26.2	26.9	26.9	26.5
United States	25.6	24.9	25.1	25.3
Uruguay	25.8	25.8	25.8	25.8
Uzbekistan	18.6	18.6	18.6	18.6
Viet Nam	23.4	23.4	23.4	23.4
Zimbabwe	27.0	27.0	27.0	27.0

Table I (continued)

NET CALORIFIC VALUES OF ENERGY PRODUCTS
GJ/ton

IMPORTS				
BROWN COAL	2015	2016	2017	2018
Standard factor	14.0	14.0	14.0	14.0
Austria	20.6	20.5	20.3	21.1
Armenia	7.8	7.8	7.8	11.9
Belgium	22.6	22.6	22.6	22.6
Bosnia and Herzegovina	10.1	10.8	10.7	10.6
Cambodia	19.9	19.9	19.9	19.9
Canada	17.9	17.9	17.9	17.9
Croatia	16.0	16.9	17.1	17.1
Czechia	10.7	13.9	14.0	14.2
France	17.0	17.0	17.0	17.0
Georgia	17.0	17.0	17.0	17.0
Germany	18.7	18.4	18.4	18.4
Greece	5.1	5.1	5.1	4.9
Hungary	18.4	18.2	17.9	17.9
India	9.5	18.0	18.0	18.0
Italy	18.8	18.7	17.0	10.5
Kazakhstan	18.5	18.6	19.5	19.5
Korea, Democratic People's Republic of	17.6	17.6	17.6	17.6
Republic of Korea	21.4	21.4	21.4	21.4
Kosovo	7.8	7.8	7.8	7.8
Kyrgyzstan	14.7	14.7	14.7	14.7
Lao People's Democratic Republic	10.9	10.9	10.8	9.6
Lithuania	14.7	22.7	22.7	22.7
Mexico	18.6	19.0	19.0	19.0
Montenegro	9.2	9.2	9.2	9.6
Netherlands	20.0	20.0	20.0	20.0
New Zealand	20.6	20.3	20.2	20.2
Philippines	22.1	21.6	22.0	21.9
Poland	8.2	8.1	8.3	8.3
Romania	19.3	20.8	24.5	22.8
Russian Federation	14.9	14.9	14.9	14.9
Serbia	8.1	8.1	8.1	8.1
Slovakia	14.9	13.8	14.3	14.3
Slovenia	18.6	13.8	19.0	19.0
Switzerland	23.6	23.6	23.6	23.6
North Macedonia	18.2	20.8	22.1	19.4
United States	19.7	19.7	19.6	19.8
Uzbekistan	14.7	14.7	14.7	14.7

Table I (continued)

NET CALORIFIC VALUES OF ENERGY PRODUCTS
GJ/ton

IMPORTS				
COKE OVEN COKE	2015	2016	2017	2018
Standard factor	28.2	28.2	28.2	28.2
Argentina	28.5	28.5	28.5	28.5
Australia	27.0	27.0	27.0	27.0
Austria	28.6	28.9	28.6	27.9
Belgium	29.3	29.3	29.3	29.3
Bosnia and Herzegovina	28.5	28.5	28.5	28.5
Brazil	28.9	28.9	28.9	28.9
Bulgaria	28.5	28.5	28.5	28.5
Belarus	29.0	29.0	29.0	29.0
Canada	27.5	27.5	27.5	27.5
China	28.5	28.5	28.5	28.4
Colombia	20.1	20.1	20.1	20.1
Croatia	29.3	29.3	29.3	29.3
Czechia	26.2	28.1	28.0	26.8
Denmark	29.3	29.3	29.3	29.3
Egypt	27.2	27.2	27.2	27.2
Finland	29.3	29.3	29.3	29.3
France	28.0	28.0	28.0	28.0
Georgia	29.3	29.3	29.3	29.3
Germany	28.7	28.7	28.7	28.7
Hungary	29.6	29.9	29.6	29.3
Iceland	26.7	26.7	26.7	27.8
Italy	29.0	28.4	28.4	28.8
Japan	29.2	29.2	29.2	29.2
Kazakhstan	26.9	26.8	26.9	26.9
Korea, Republic of	28.9	28.9	28.9	28.9
Lithuania	29.3	29.3	29.3	29.3
Luxembourg	28.5	28.5	28.5	28.5
Mexico	27.8	28.4	28.7	28.7
Netherlands	28.5	28.5	28.5	28.5
North Macedonia	25.8	27.7	26.9	29.1
Norway	28.5	28.5	28.5	28.5
Peru	28.2	28.2	28.2	28.2
Poland	28.0	28.0	28.0	28.0
Portugal	30.7	30.4	30.8	30.8
Romania	26.4	26.4	26.4	26.4
Russian Federation	29.0	29.0	29.0	29.0
Serbia	29.0	29.0	29.0	29.0
Slovakia	26.5	27.7	27.7	30.1
Spain	26.8	26.8	27.3	27.3
Sweden	28.1	28.1	28.1	28.1
Switzerland	25.5	25.5	25.5	25.5
Turkey	27.2	27.0	27.0	27.0
Ukraine	25.1	25.1	25.1	25.1
North Macedonia				
United Kingdom	29.8	29.8	29.8	29.8
United States	28.9	28.9	28.9	28.9

Table I (continued)

NET CALORIFIC VALUES OF ENERGY PRODUCTS
GJ/ton

IMPORTS				
PATENT FUEL	2015	2016	2017	2018
Standard factor	20.7	20.7	20.7	20.7
Austria	31.0	31.0	31.0	31.0
Belgium	30.5	30.5	30.5	30.5
France	32.0	32.0	32.0	32.0
Germany	31.4	31.4	31.4	31.4
Luxembourg	28.2	28.2	28.2	28.2
Poland	23.2	23.2	23.2	23.2
Slovakia	28.0	28.0	28.0	28.0
United Arab Emirates	29.0	29.0	29.0	29.0
United Kingdom	28.3	28.3	28.3	28.3
BROWN COAL BRIQUETTES	2015	2016	2017	2018
Standard factor	20.7	20.7	20.7	20.7
Australia	21.0	22.0	21.0	22.0
Austria	19.8	19.8	19.8	19.8
Belgium	20.7	20.7	20.7	20.7
Czechia	19.8	20.0	20.2	20.3
France	16.9	16.9	16.9	16.9
Germany	25.5	22.1	25.6	25.6
Hungary	19.1	19.0	19.6	19.3
India	20.0	20.0	20.0	20.0
Ireland	19.8	19.8	19.8	19.8
Luxembourg	22.2	22.2	22.2	22.2
Mexico	18.0	18.0	18.0	18.0
Netherlands	20.0	20.0	20.0	20.0
Poland	17.5	17.5	17.5	17.5
Serbia	15.8	15.8	15.8	15.8
Slovakia	17.9	17.2	17.6	17.6
PEAT	2015	2016	2017	2018
Standard factor	9.8	9.8	9.8	9.8
Finland	10.1	10.0	9.9	9.9
Latvia	10.1	10.1	10.1	10.1
Romania	8.8	8.8	8.8	8.8
Russian Federation	10.0	10.0	10.0	10.0
Sweden	12.9	12.9	12.9	12.9
Ukraine	9.7	9.7	9.7	9.7

Table I (continued)

NET CALORIFIC VALUES OF ENERGY PRODUCTS
GJ/ton

IMPORTS				
CRUDE OIL	2015	2016	2017	2018
Standard factor	42.3	42.3	42.3	42.3
Azerbaijan	43.1	43.1	43.1	43.1
Australia	42.7	42.7	42.7	42.7
Austria	42.5	42.5	42.5	42.5
Belgium	42.2	42.2	42.2	42.1
Brazil	42.2	42.2	42.3	42.3
Canada	42.8	42.8	42.8	42.8
Chile	43.2	43.2	43.2	43.2
China	41.9	41.9	41.9	41.9
Czechia	42.4	42.4	42.4	42.8
Denmark	43.0	43.0	43.0	43.0
Finland	42.7	42.7	42.7	42.7
France	42.8	42.8	42.8	42.8
Georgia	42.5	42.5	42.5	42.5
Germany	42.5	42.5	42.5	42.5
Greece	41.5	41.5	41.5	41.5
China, Hong Kong Special Administrative Region	42.4	42.5	42.5	42.5
Hungary	41.8	41.8	41.8	41.8
Ireland	42.8	42.8	42.8	42.8
Israel	42.5	42.5	42.7	42.7
Italy	41.9	41.9	41.9	41.9
Japan	42.1	42.1	42.0	42.0
Korea, Republic of	42.7	42.7	42.2	42.2
Lithuania	41.9	42.3	42.3	42.3
Morocco	42.4	42.4	42.4	42.4
Netherlands	42.7	42.7	42.7	42.7
New Zealand	42.8	42.8	42.8	42.8
Norway	41.1	42.2	43.4	43.4
Peru	43.0	43.0	43.0	43.0
Poland	42.5	42.5	42.5	42.5
Portugal	43.0	43.0	43.0	43.0
Slovakia	42.0	42.0	42.0	42.0
Spain	42.3	42.3	42.3	42.3
Sweden	42.2	42.2	42.2	42.2
Switzerland	43.2	43.2	43.2	43.2
Turkey	44.4	44.3	44.3	44.3
United Kingdom	43.4	43.4	43.4	43.4
United States	43.7	43.6	43.6	43.7

Table I (continued)

NET CALORIFIC VALUES OF ENERGY PRODUCTS
GJ/ton

IMPORTS				
NATURAL GAS LIQUIDS	2015	2016	2017	2018
Standard factor	44.2	44.2	44.2	44.2
Azerbaijan	39.1	39.1	39.1	39.1
Armenia	34.7	34.7	34.7	34.5
Belgium	45.2	45.2	45.2	45.2
Canada	45.2	45.2	45.2	45.2
Equatorial Guinea	47.3	47.3	47.3	47.3
Finland	44.0	44.0	44.0	44.0
France	42.0	42.0	42.0	42.0
Japan	45.4	45.6	45.3	45.3
Netherlands	44.0	44.0	44.0	44.0
Peru	42.1	42.1	42.1	42.1
Republic of Moldova	42.0	42.0	42.0	42.0
United Kingdom	45.3	45.3	45.3	45.3
United States	48.1	47.7	47.5	46.1
REFINERY FEEDSTOCKS	2015	2016	2017	2018
Standard factor	43.0	43.0	43.0	43.0
Australia	43.3	43.3	43.3	43.3
Austria	42.6	42.1	42.3	42.3
Belgium	42.2	42.2	42.2	42.1
Czechia	40.2	40.2	40.2	40.2
France	41.9	41.9	41.9	41.9
Greece	41.3	41.3	41.3	41.3
Hungary	41.8	41.8	41.8	41.8
Israel	44.8	44.8	44.8	44.8
Italy	42.5	42.5	42.5	42.5
Republic of Korea	44.8	44.8	47.2	47.2
Lithuania	44.4	41.4	41.5	42.3
Morocco	41.9	41.9	41.9	41.9
New Zealand	44.0	43.9	43.9	43.9
Poland	42.5	43.0	43.0	43.0
Portugal	42.6	42.6	42.6	42.6
Republic of Moldova	41.6	41.6	41.6	41.6
Spain	42.5	42.5	42.5	42.5
Sweden	44.2	44.2	44.2	44.2
Switzerland	43.7	43.7	43.7	43.7
United Kingdom	42.0	42.0	42.0	42.0
United States	43.5	43.5	43.5	43.5

Table I (continued)

NET CALORIFIC VALUES OF ENERGY PRODUCTS
GJ/ton

IMPORTS				
OTHER HYDROCARBONS	2015	2016	2017	2018
Standard factor	36.0	36.0	36.0	36.0
Latvia	39.4	39.4	39.4	39.4
Serbia	120.0	120.0	120.0	120.0
United States	51.0	51.0	51.0	51.0
ADDITIVES/BLENDING COMPONENTS	2015	2016	2017	2018
Standard factor	30.0	30.0	30.0	30.0
Canada	25.1	25.1	25.1	25.1
Chile	22.7	22.7	22.7	22.7
Czechia	39.5	39.5	39.5	39.5
Finland	42.5	42.5	42.5	42.5
France	25.1	25.1	25.1	25.1
Greece	41.3	41.3	41.3	41.3
Italy	37.0	37.0	37.0	37.0
Korea, Republic of	41.9	41.9	44.1	44.1
Lithuania	41.9	41.9	41.9	41.9
Mexico	37.0	38.7	34.1	34.1
Netherlands	38.4	38.7	37.4	38.8
Poland	40.2	40.2	40.2	40.2
Portugal	37.0	37.0	37.0	37.0
Slovakia	42.1	42.0	42.0	42.0
Switzerland	41.3	41.3	41.3	41.3
Turkey	25.1	25.1	25.1	25.1
United Kingdom	31.9	32.1	32.1	33.3
United States	37.9	37.9	37.9	37.9

Table II
SELECTED CONVERSION FACTORS FOR CRUDE OIL
AND OIL PRODUCTS

(To convert from metric tons into the following units, multiply by the factor in the appropriate column)

Commodity	Litre	U.S. Gallon	Imperial Gallon	Barrel	Barrels / day	Cubic Metre
Conventional crude oil (average specific gravity)	1164	308	256	7.32	0.02005	1.164
Natural gas liquids (NGL)	1653	437	364	10.40	0.02849	1.653
Additives and oxygenates	1033	315	262	7.50	0.02055	1.033
Other hydrocarbons	1177	311	259	7.40	0.02027	1.177
Aviation gasoline	1370	362	301	8.62	0.02362	1.370
Motor gasoline	1351	357	297	8.50	0.02329	1.351
Gasoline-type jet fuel	1317	348	290	8.28	0.02270	1.317
Kerosene-type jet fuel	1235	326	272	7.77	0.02129	1.235
Other kerosene	1235	326	272	7.77	0.02129	1.235
Gas oil/diesel oil	1149	304	253	7.23	0.01981	1.149
Fuel oil	1053	278	232	6.62	0.01814	1.053
Liquefied petroleum gases (LPG)	1852	489	407	11.65	0.03192	1.852
Ethane	2679	708	589	16.85	0.04616	2.679
Refinery gas	1272	336	280	8.00	0.02192	1.272
Feedstocks	1177	311	259	7.40	0.02027	1.177
Naphtha	1389	367	306	8.74	0.02395	1.389
White spirit and SBP industrial spirits	1235	326	272	7.77	0.02129	1.235
Lubricants	1111	294	244	6.99	0.01915	1.111
Bitumen	962	254	212	6.05	0.01658	0.962
Paraffin waxes	1250	330	275	7.86	0.02153	1.250
Petroleum coke	877	232	193	5.52	0.01512	0.877
Other oil products	1099	290	241	6.91	0.01893	1.099

TABLES

Table 1

Total energy supply
Petajoules

Table Notes

For tables 1 to 3

Data on individual energy commodities are aggregated and presented in these tables. As discussed in the introduction, these tables follow the principles of energy balances as recommended in IRES.

Although both Table 1 and Table 2 display figures for total energy supply, there may be rounding differences for certain countries or regions in the same year. This is due to the different ways they are added up.

Instead of breaking energy supply down by flow, Table 1 gives a longer historical perspective back to 1990. As such, historical countries that existed in 1990 are included here. Due to the break-up of the Former Union of Soviet Socialist Republics, there is a reallocation between Europe and Asia between 1991 and 1992.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description/ classification, and xvi to xvii for the descriptions of relevant flows.

Figure 1: Total energy supply by region, 1990

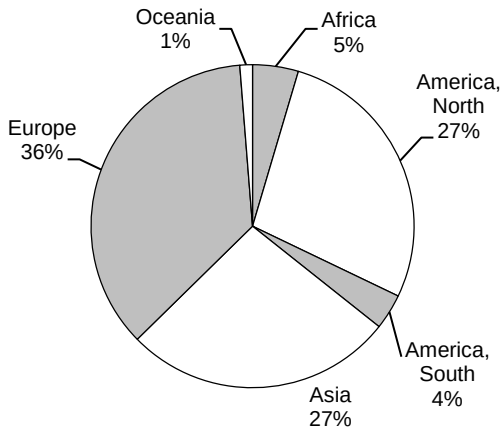


Figure 2: Total energy supply by region, 2018

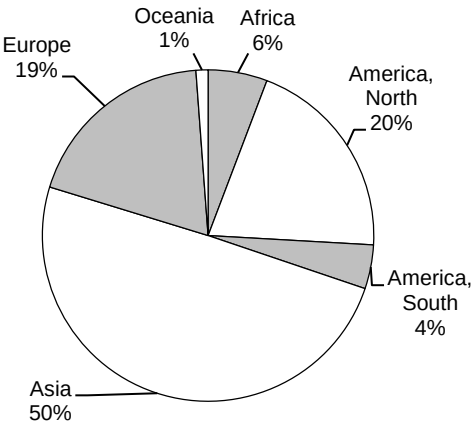


Figure 3: Total energy supply by region, 1990-2018

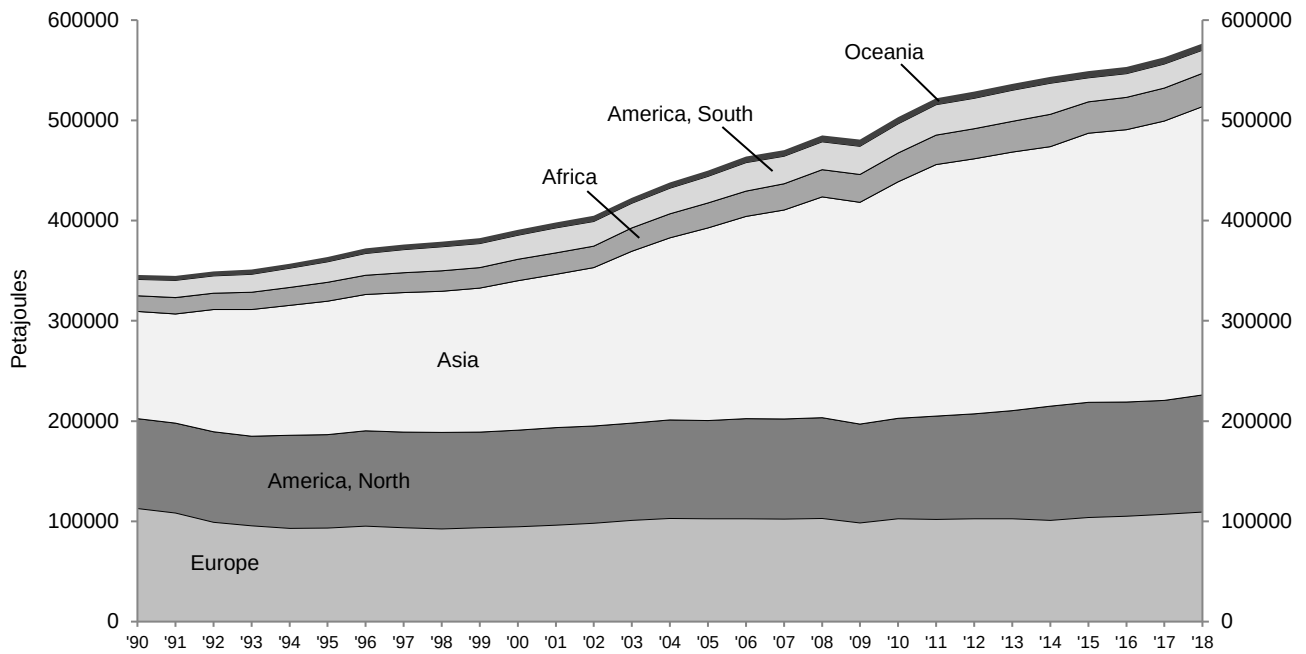


Table 1

Total Energy Supply

Petajoules

Country or area	1990	1995	2000	2005	2010	2015	2018
World	349,825	373,713	406,186	464,565	518,411	549,127	576,588
Africa	16,037	18,994	21,061	24,482	28,196	31,346	33,038
Algeria	1,075	1,270	1,103	1,583	1,641	2,223	2,429
Angola	238	340	287	318	469	545	514
Benin	74	89	83	105	153	190	219
Botswana	39	44	57	65	74	80	101
Burkina Faso	93	104	83	114	145	172	193
Burundi	*52	*53	55	*56	*58	62	66
Cabo Verde	*2	*3	*5	8	9	*9	*10
Cameroon	203	237	264	295	291	382	404
Central African Rep.	31	31	22	22	21	21	22
Chad	48	54	62	71	80	79	86
Comoros	2	3	3	4	5	*6	*8
Congo	36	40	35	45	70	117	124
Côte d'Ivoire	204	245	278	418	425	543	434
Dem. Rep. of the Congo	489	595	635	698	831	1,209	1,149
Djibouti	*6	*7	8	*9	11	10	*10
Egypt	1,271	1,605	2,288	2,742	3,242	3,450	3,722
Equatorial Guinea	5	5	11	65	78	109	99
Eritrea	..	42	30	32	31	34	36
Eswatini	*32	*34	41	40	43	44	44
Ethiopia	..	918	1,022	1,132	1,293	1,462	1,563
Ethiopia, incl. Eritrea	543	..	..	..	..	..	..
Gabon	49	56	61	72	93	111	106
Gambia	7	8	9	10	12	*14	*14
Ghana	187	277	271	251	267	339	353
Guinea	105	126	128	135	147	152	171
Guinea-Bissau	20	21	23	26	28	30	32
Kenya	439	518	*627	*686	*793	953	*972
Lesotho	*36	*41	*48	47	52	*46	*47
Liberia	38	31	49	62	75	92	98
Libya	468	653	695	815	870	781	745
Madagascar	99	126	*153	*168	*200	250	*331
Malawi	64	65	65	70	76	80	88
Mali	*61	*71	*86	120	*153	*195	*207
Mauritania	*23	*26	29	36	45	*61	74
Mauritius	33	41	49	57	63	67	69
Mayotte	*1	*2	*2	*3	4	..	..
Morocco	345	423	478	606	762	799	871
Mozambique	248	264	293	366	311	451	444
Namibia	..	38	39	54	65	78	84
Niger	60	70	81	*77	70	94	*96
Nigeria	2,780	3,052	3,642	4,401	5,325	6,064	6,585
Reunion	24	31	42	49	58	..	..
Rwanda	35	54	54	71	84	*98	*101
Sao Tome and Principe	*1	1	*2	*2	2	*3	*3
Senegal	*81	*87	97	114	160	178	191
Seychelles	2	*3	4	5	6	7	8
Sierra Leone	51	46	54	56	59	66	68
Somalia	68	77	90	107	126	138	152
South Africa	4,179	4,750	4,921	5,202	5,920	5,760	5,916
South Sudan	..	..	..	..	..	35	26
Sudan	..	..	..	..	..	503	528
Sudan (former)	451	506	556	654	711	..	..
Togo	55	71	89	99	130	131	138
Tunisia	192	220	293	349	427	452	479
Uganda	351	390	396	516	645	804	915
United Rep. of Tanzania	409	463	564	649	721	825	875

Table 1

Total Energy Supply

Petajoules

Country or area	1990	1995	2000	2005	2010	2015	2018
Zambia	222	244	261	312	375	469	519
Zimbabwe	405	421	438	414	394	473	498
America, North	96,319	104,096	114,836	119,331	114,855	114,853	117,056
Anguilla	*1	*1	*1	*2	*2	*2	*2
Antigua and Barbuda	*3	*3	*4	*5	*6	*7	*7
Aruba	*7	*10	*54	58	*56	*13	*13
Bahamas	*28	*26	*28	*28	28	31	39
Barbados	16	12	16	17	20	17	17
Belize	8	10	11	11	13	16	16
Bermuda	*7	*8	*7	*8	*9	8	10
Bonaire, St Eustatius, Saba	..	..	..	..	..	*5	*6
British Virgin Islands	*1	*2	*2	*3	*3	*3	*2
Canada	8,838	9,783	10,609	11,441	10,902	11,810	12,446
Cayman Islands	4	*5	*7	7	8	8	9
Costa Rica	68	110	137	177	203	207	205
Cuba	604	414	459	388	505	459	375
Curaçao	..	..	..	..	..	101	58
Dominica	*1	1	2	*2	3	*3	*2
Dominican Republic	140	223	275	259	298	326	364
El Salvador	91	133	146	160	178	178	179
Greenland	6	6	7	9	11	9	*9
Grenada	2	2	3	3	4	4	5
Guadeloupe	18	*21	26	33	*32	..	..
Guatemala	195	252	307	361	388	480	546
Haiti	101	107	128	138	159	176	192
Honduras	98	119	125	166	198	241	257
Jamaica	113	130	148	152	113	117	117
Martinique	21	*22	*23	30	29	..	..
Mexico	5,179	5,516	6,314	7,559	7,557	7,830	7,634
Montserrat	0	0	0	1	1	1	0
Neth. Antilles (former)	82	*95	83	84	69	..	..
Nicaragua	86	102	107	119	125	165	167
Panama	60	71	105	122	144	171	183
Puerto Rico	*1	0	13	24	27	53	*50
Sint Maarten (Dutch part)	..	..	..	..	..	*12	*11
St. Kitts-Nevis	*2	*2	*3	*3	3	*3	*4
St. Lucia	*4	*5	*6	*7	*8	*8	*8
St. Pierre-Miquelon	1	1	*1	*1	*1	*1	*1
St. Vincent-Grenadines	*1	*2	2	*3	3	4	4
Trinidad and Tobago	251	251	420	676	833	797	715
Turks and Caicos Islands	0	*1	*1	*2	*3	*3	*3
United States	80,280	86,648	95,257	97,271	92,911	91,585	93,400
America, South	12,461	14,583	16,758	18,869	22,140	24,078	23,076
Argentina	1,928	2,194	2,564	2,919	3,295	3,423	3,288
Bolivia (Plur. State of)	106	155	168	207	277	364	404
Brazil	5,972	7,069	7,998	9,212	10,946	12,393	12,196
Chile	593	780	1,082	1,187	1,286	1,510	1,635
Colombia	983	1,104	1,103	1,180	1,402	1,701	1,630
Ecuador	255	339	328	470	521	603	596
Falkland Is. (Malvinas)	1	*1	0	*1	*1	1	1
French Guiana	9	*9	8	10	*12	..	..
Guyana	28	31	34	32	34	35	38
Paraguay	*96	131	175	198	258	281	307
Peru	421	464	514	565	808	890	1,001
Suriname	29	34	36	26	40	43	41
Uruguay	96	107	119	126	173	213	223
Venezuela (Bolivar. Rep.)	1,944	2,167	2,629	2,737	3,087	2,622	1,716

Table 1

Total Energy Supply

Petajoules

Country or area	1990	1995	2000	2005	2010	2015	2018
Asia	94,358	124,496	141,252	183,088	234,751	268,316	287,605
Afghanistan	*46	*29	25	36	136	136	142
Armenia	..	69	85	106	*106	135	131
Azerbaijan	..	536	485	573	486	605	607
Bahrain	213	257	331	348	513	577	582
Bangladesh	769	918	998	1,191	1,493	1,803	1,964
Bhutan	37	39	44	48	57	64	71
Brunei Darussalam	107	71	73	76	136	114	156
Cambodia	121	119	142	144	223	295	344
China	30,398	39,163	42,461	68,833	101,618	119,870	129,651
China, Hong Kong SAR	316	398	570	579	544	576	589
China, Macao SAR	15	18	24	29	32	45	42
Cyprus	58	71	90	94	103	86	95
Georgia	..	88	120	135	140	198	204
India	13,435	16,262	19,808	22,706	29,193	36,066	39,184
Indonesia	4,090	5,279	5,855	7,037	8,074	8,747	10,415
Iran (Islamic Rep. of)	2,819	3,887	5,386	7,221	8,579	9,901	10,992
Iraq	586	1,072	995	1,485	1,424	1,997	2,677
Israel	482	652	767	773	972	915	935
Japan	18,362	20,752	21,727	21,929	20,995	18,086	17,859
Jordan	138	172	205	289	303	368	382
Kazakhstan	..	2,185	1,551	2,352	3,363	3,018	3,103
Korea, Dem.Ppl's.Rep.	1,391	921	826	896	622	332	265
Korea, Republic of	3,868	6,121	7,912	8,822	10,498	11,428	11,826
Kuwait	566	835	824	1,133	1,350	1,389	1,460
Kyrgyzstan	..	101	101	114	115	167	192
Lao People's Dem. Rep.	60	63	58	69	100	169	239
Lebanon	*113	174	207	206	262	337	348
Malaysia	757	1,708	1,959	2,745	2,965	3,424	3,832
Maldives	2	4	6	9	13	19	25
Mongolia	116	89	87	104	164	272	541
Myanmar	449	498	538	618	662	848	991
Nepal	155	299	349	388	446	499	593
Oman	153	236	319	445	781	1,051	1,091
Other Asia	2,005	2,663	3,509	4,199	4,579	4,599	4,578
Pakistan	1,290	1,722	2,082	2,642	2,880	3,229	4,545
Philippines	1,039	1,264	1,551	1,469	1,631	2,050	2,393
Qatar	194	547	576	728	1,165	1,540	1,809
Saudi Arabia	3,178	3,881	4,487	6,047	7,707	10,307	9,950
Singapore	658	645	761	899	1,079	1,236	1,070
Sri Lanka	187	225	296	324	360	433	444
State of Palestine	*20	*22	38	58	54	72	74
Syrian Arab Republic	476	585	729	740	911	424	437
Tajikistan	..	146	141	148	143	167	199
Thailand	1,766	2,620	3,049	4,048	4,931	5,695	5,678
Timor-Leste	..	..	..	*4	*4	*8	*8
Turkey	2,211	2,578	3,182	3,529	4,442	5,390	6,030
Turkmenistan	..	574	625	805	951	1,160	1,160
United Arab Emirates	791	1,108	1,719	1,842	2,977	3,571	2,649
Uzbekistan	..	1,780	2,124	2,046	1,806	1,734	1,944
Viet Nam	791	908	1,262	1,756	2,334	2,985	2,975
Yemen	..	142	197	274	326	180	137
Yemen Arab Rep. (former)	*47	..	..	..	..	..	..
Yemen, Dem. (former)	*84	..	..	..	..	..	..
Europe	126,239	106,768	106,779	113,031	111,987	103,959	109,168
Albania	92	47	65	91	91	91	91
Andorra	*7	7	9	10	10	9	9
Austria	1,041	1,123	1,198	1,413	1,428	1,371	1,377

Table 1

Total Energy Supply

Petajoules

Country or area	1990	1995	2000	2005	2010	2015	2018
Belarus	..	1,038	1,029	1,121	1,152	1,067	1,139
Belgium	1,999	2,231	2,418	2,421	2,496	2,182	2,215
Bosnia and Herzegovina	..	62	179	206	269	250	312
Bulgaria	1,181	966	773	826	741	778	780
Croatia	..	325	349	407	390	350	354
Czechia	..	1,760	1,746	1,898	1,892	1,758	1,813
Czechoslovakia (former)	2,950	..	..	..	..	..	..
Denmark	726	809	780	791	815	676	712
Estonia	..	215	195	220	237	230	263
Faeroe Islands	10	*8	*10	*10	*9	*9	*11
Finland	1,186	1,208	1,353	1,440	1,530	1,350	1,415
France	9,345	9,886	10,500	11,374	10,969	10,531	10,271
German Dem. R. (former)	*3,679	..	..	..	..	..	..
Germany	..	14,083	14,081	14,156	13,791	12,931	12,645
Germany, Fed. R. (former)	11,391	..	..	..	..	..	..
Gibraltar	2	4	5	6	7	9	11
Greece	899	954	1,131	1,265	1,155	965	935
Guernsey	..	..	..	1	1	1	1
Hungary	1,200	1,083	1,046	1,174	1,109	1,053	1,118
Iceland	87	90	139	158	278	313	366
Ireland	417	448	580	618	608	557	577
Isle of Man	..	..	..	1	4	4	4
Italy	6,138	6,668	7,183	7,797	7,277	6,374	6,289
Jersey	..	1	1	3	3	3	3
Kosovo	..	..	65	82	105	106	109
Latvia	..	193	161	190	189	179	195
Liechtenstein	1	2	2	3	3	3	3
Lithuania	..	363	295	365	292	293	315
Luxembourg	143	133	142	185	178	158	165
Malta	29	30	29	37	35	27	28
Montenegro	..	..	..	42	48	42	45
Netherlands	2,771	3,042	3,106	3,318	3,443	2,987	3,033
North Macedonia	..	151	169	163	121	116	112
Norway	879	981	1,092	1,114	1,353	1,215	1,173
Poland	4,393	4,249	3,784	3,891	4,256	4,004	4,453
Portugal	703	846	1,031	1,109	983	918	919
Republic of Moldova	..	186	66	89	91	108	124
Romania	2,621	1,925	1,532	1,626	1,474	1,341	1,411
Russian Federation	..	26,720	25,994	27,338	28,932	28,943	33,226
Serbia	..	..	..	672	648	612	635
Serbia and Montenegro	..	522	556	..	..	..	..
Slovakia	..	742	740	776	736	675	716
Slovenia	..	254	269	306	306	275	291
Spain	3,762	4,211	5,073	5,914	5,335	4,904	5,183
Sweden	1,965	2,086	1,968	2,135	2,109	1,836	2,052
Switzerland	1,018	1,004	1,041	1,080	1,085	1,013	997
Ukraine	..	7,073	5,574	5,872	5,491	3,753	3,968
United Kingdom	8,612	9,037	9,317	9,318	8,511	7,591	7,304
USSR (former)	55,194	..	..	..	..	..	..
Yugoslavia, SFR (former)	1,797	..	..	..	..	..	..
Oceania	4,412	4,776	5,500	5,763	6,482	6,574	6,645
Australia	3,694	3,962	4,567	4,790	5,396	5,330	5,393
Cook Islands	*1	*1	*1	1	*1	*1	*1
Fiji	23	*23	22	24	21	25	*25
French Polynesia	*7	7	9	12	12	12	12
Kiribati	*1	*1	1	1	1	1	*2
Marshall Islands	..	*1	*2	*2	*2	*2	*2
Micronesia (Fed. States of)	..	*2	*2	2	2	2	*2
Nauru	*2	*1	*1	*1	*1	*1	*1

Table 1**Total Energy Supply**

Petajoules

Country or area	1990	1995	2000	2005	2010	2015	2018
New Caledonia	21	27	30	37	46	61	73
New Zealand	561	647	750	748	839	952	945
Pacific Islands (former)	*3	..	..	..	..	..	..
Palau	..	*3	*3	*3	3	*3	*3
Papua New Guinea	88	89	99	126	141	166	*167
Samoa	*3	*4	4	4	4	5	5
Solomon Islands	*5	*6	*6	*7	*8	8	*8
Tonga	1	1	1	*2	2	2	2
Vanuatu	1	1	*2	2	3	3	3

Table 2

Components of total energy supply

Petajoules and Gigajoules per capita

Table Notes

Included in the **Primary energy production** for **Solids** are hard coal, lignite, peat, oil shale, primary solid biofuels and wastes; **Liquids** are comprised of crude oil, natural gas liquids, other hydrocarbons, additives and oxygenates, and liquid biofuels; **Gas** comprises natural gas and biogas; **Electricity** is comprised of primary electricity generation from hydro, wind, tide, wave and solar sources; and **Heat** comprises primary heat from nuclear, geothermal, chemical and solar sources.

Stock changes, trade and International bunkers refer to all primary and secondary forms of energy.

Supply is calculated as primary energy production plus import minus exports minus International bunkers minus stock changes.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description/ classification, and xvi to xvii for the descriptions of relevant flows.

Figure 4: Total per capita energy supply by region, selected years

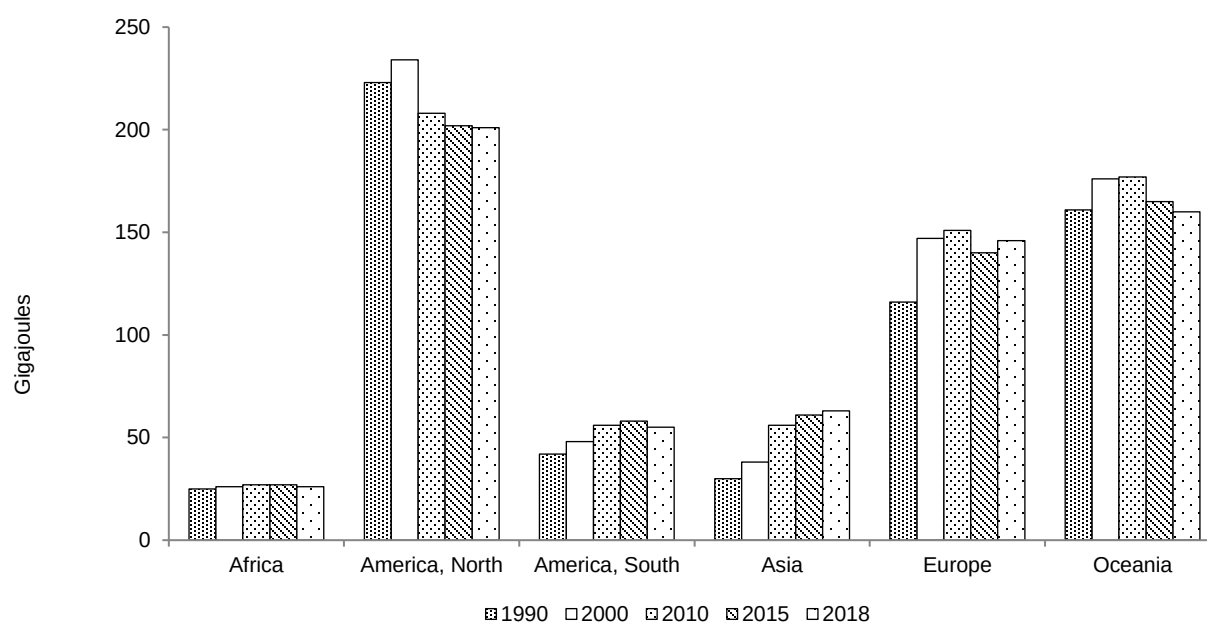


Figure 5: Production of solids by region, 2018

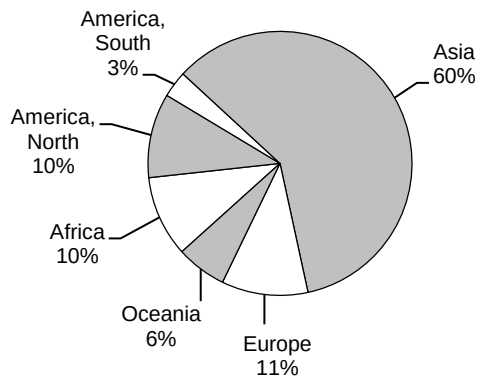


Figure 6: Production of liquids by region, 2018

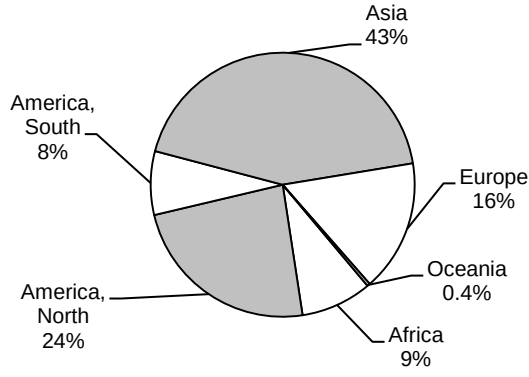


Figure 7: Production of gases by region, 2018

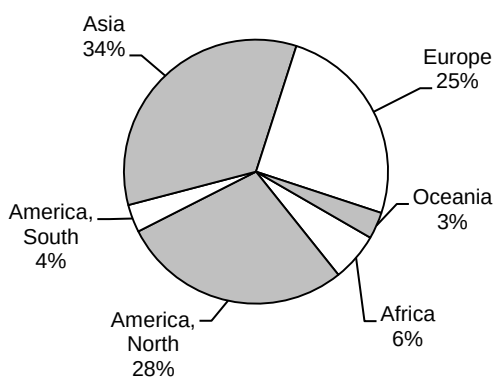


Figure 8: Primary electricity production by region, 2018

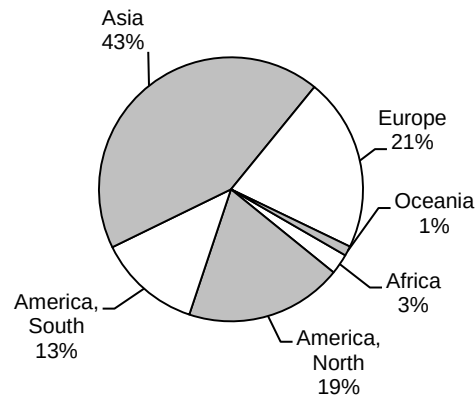


Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Country or area	Year	Primary energy production					
		Total	Solids	Liquids	Gases	Electricity	Heat
World	2015	570,407	207,411	187,375	126,445	17,856	31,320
	2016	569,793	200,144	189,959	128,768	19,084	31,838
	2017	581,831	204,973	190,642	133,695	20,263	32,258
	2018	599,931	212,279	194,222	138,525	21,678	33,227
Africa	2015	44,689	20,199	16,597	7,116	470	307
	2016	44,108	20,145	15,598	7,532	479	354
	2017	46,304	20,625	16,599	8,207	507	366
	2018	46,827	20,821	16,892	8,228	543	344
Algeria	2015	5,883	0	2,891	2,990	1	..
	2016	6,283	0	2,947	3,335	1	..
	2017	6,285	0	2,877	3,406	*2	..
	2018	6,254	1	2,816	3,434	*3	..
Angola	2015	4,030	257	3,728	26	19	..
	2016	3,998	262	3,656	58	21	..
	2017	4,087	267	3,595	198	28	..
	2018	3,793	270	3,279	212	32	..
Benin	2015	114	114	..	..	0	..
	2016	105	105	..	..	0	..
	2017	114	114	..	..	0	..
	2018	114	113	..	..	0	..
Botswana	2015	56	56	..	..	0	..
	2016	51	51	..	..	0	..
	2017	59	59	..	..	0	..
	2018	65	65	..	..	0	..
Burkina Faso	2015	126	126	..	..	0	..
	2016	128	127	..	0	1	..
	2017	129	129	..	0	0	..
	2018	131	130	..	0	1	..
Burundi	2015	56	55	..	..	1	..
	2016	56	56	..	..	1	..
	2017	56	56	..	..	0	..
	2018	56	55	..	..	1	..
Cabo Verde	2015	*2	*1	..	..	0	..
	2016	*2	*1	..	..	0	..
	2017	*2	*1	..	..	0	..
	2018	*2	*1	..	..	0	..
Cameroon	2015	493	260	200	17	16	..
	2016	499	267	198	19	16	..
	2017	*476	*274	163	21	18	..
	2018	502	281	147	55	18	..
Central African Rep.	2015	19	18	..	..	1	..
	2016	19	18	..	..	1	..
	2017	19	18	..	..	1	..
	2018	19	18	..	..	1	..
Chad	2015	375	71	305	..	..	..
	2016	347	72	275	..	..	..
	2017	318	73	245	..	..	..
	2018	349	74	275	..	..	..
Comoros	2015	*4	*4	..	..	..	..
	2016	*4	*4	..	..	..	..
	2017	4	4	..	..	..	..
	2018	4	4	..	..	..	..
Congo	2015	607	63	522	18	4	..
	2016	602	65	512	21	4	..
	2017	684	67	592	22	4	..
	2018	818	69	723	22	4	..

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
223,215	226,002	7,411	8,614	2,469	549,127	74
230,127	235,896	7,782	8,654	-5,545	553,132	74
240,495	244,345	8,141	9,044	-1,982	562,778	75
243,096	248,790	8,447	8,877	326	576,587	76
7,430	20,271	298	246	-43	31,346	27
7,590	19,202	325	161	-85	32,093	26
7,615	20,489	369	145	72	32,844	26
7,479	20,671	350	219	29	33,038	26
189	3,852	20	11	-36	2,223	56
167	4,225	*17	10	-3	2,202	54
169	4,129	*16	10	12	2,288	55
60	3,846	*19	9	12	2,429	58
201	3,668	*6	16	*-4	545	20
154	3,632	*5	15	*-30	531	18
152	3,728	*11	16	*-19	505	17
148	3,440	*10	10	*-34	514	17
79	0	2	..	2	190	18
92	..	1	0	-3	198	18
98	..	1	0	-2	213	19
109	..	1	..	3	219	19
42	6	0	..	*11	80	38
46	5	0	..	0	92	43
46	5	0	..	..	99	45
44	7	1	..	..	101	45
52	0	1	..	*4	172	10
43	0	1	..	-6	176	9
53	0	1	..	*-4	185	10
68	0	1	..	*4	193	10
6	0	0	..	0	62	6
7	0	0	..	0	63	6
*8	..	0	..	0	63	6
*10	..	0	..	..	66	6
*12	..	*2	*3	..	*9	*17
*13	..	*2	*3	..	*9	*17
*14	..	*2	*3	..	*10	*18
*14	..	*2	*3	..	*10	*19
89	197	4	0	-1	382	16
88	201	1	0	0	385	16
83	166	1	0	..	393	16
80	177	1	..	..	404	16
*3	0	1	..	..	21	5
*4	0	1	..	..	22	5
*4	0	1	..	..	22	5
*4	0	1	..	..	22	5
0	296	*1	..	..	79	6
0	262	*1	..	..	84	6
0	232	*1	..	0	85	6
0	262	*1	..	..	86	6
*3	..	0	..	..	*6	*8
*3	..	0	..	..	*7	*8
*4	..	0	..	..	*8	*9
*4	..	0	..	..	*8	*10
16	504	2	..	0	117	24
17	495	2	..	0	122	24
9	570	1	..	..	122	24
9	666	1	..	36	124	24

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Country or area	Year	Primary energy production					
		Total	Solids	Liquids	Gases	Electricity	Heat
Côte d'Ivoire	2015	526	393	57	71	5	..
	2016	456	270	93	87	6	..
	2017	438	266	85	79	7	..
	2018	415	262	71	72	11	..
Dem. Rep. of the Congo	2015	1,218	1,141	44	0	32	..
	2016	1,256	1,181	42	0	33	..
	2017	1,264	1,180	51	0	34	..
	2018	1,173	1,077	56	0	40	..
Djibouti	2015	4	4	..	..	..	..
	2016	4	4	..	..	..	..
	2017	4	4	..	..	..	..
	2018	4	4	..	..	..	..
Egypt	2015	3,051	223	1,465	1,310	54	..
	2016	3,105	225	1,369	1,455	56	..
	2017	3,418	225	1,341	1,795	56	..
	2018	3,364	228	1,362	1,718	56	..
Equatorial Guinea	2015	820	4	554	261	*1	..
	2016	763	4	482	277	*1	..
	2017	715	4	421	289	*1	..
	2018	647	4	370	272	*1	..
Eritrea	2015	26	26	..	..	0	..
	2016	26	26	..	..	0	..
	2017	26	26	..	..	0	..
	2018	27	27	..	..	0	..
Eswatini	2015	33	32	..	..	1	..
	2016	35	35	..	..	0	..
	2017	30	29	..	..	0	..
	2018	29	28	..	..	1	..
Ethiopia	2015	1,330	1,292	0	..	38	..
	2016	1,356	1,311	0	..	45	..
	2017	1,379	1,332	0	..	48	..
	2018	1,397	1,348	0	..	49	..
Gabon	2015	561	*53	487	19	3	..
	2016	556	*53	481	19	3	..
	2017	518	*54	444	17	3	..
	2018	476	*55	401	16	4	..
Gambia	2015	7	7	..	..	0	..
	2016	7	7	..	..	0	..
	2017	7	7	..	..	0	..
	2018	7	7	..	..	0	..
Ghana	2015	372	99	226	25	21	..
	2016	336	99	195	22	20	..
	2017	519	107	359	32	20	..
	2018	539	108	379	31	22	..
Guinea	2015	116	112	..	0	3	..
	2016	117	113	..	0	4	..
	2017	117	113	..	0	4	..
	2018	118	113	..	0	4	..
Guinea-Bissau	2015	25	25	..	..	..	..
	2016	26	26	..	..	0	..
	2017	26	26	..	..	0	..
	2018	26	26	..	..	0	..
Kenya	2015	761	585	..	..	*13	163
	2016	736	560	..	..	14	161
	2017	738	556	..	..	10	171
	2018	*754	*553	..	0	16	185

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
143	124	6	3	-6	543	23
164	152	7	3	0	457	19
160	130	*7	3	-1	458	19
160	131	7	3	..	434	17
43	46	5	..	..	1,209	16
32	44	5	..	..	1,240	16
38	51	5	..	..	1,246	15
38	57	6	..	..	1,149	14
12	0	4	*1	1	10	11
12	0	4	*1	*1	10	10
11	0	*4	*1	0	10	11
*11	0	*4	*1	0	*10	*11
1,072	644	22	7	-1	3,450	37
1,274	603	19	2	-1	3,756	40
1,180	557	20	8	2	4,012	42
1,018	627	28	4	*2	3,722	38
*13	727	*2	..	*-5	109	93
*13	659	*2	..	*-8	123	101
*14	600	2	..	*-7	134	106
*12	536	2	..	*22	99	76
8	..	0	..	..	34	10
8	..	0	..	..	34	10
9	..	0	..	..	35	10
10	..	0	..	..	36	11
18	6	0	..	..	44	40
19	12	0	..	0	43	39
17	5	0	..	..	42	37
18	3	0	..	..	44	38
156	3	20	..	1	1,462	14
177	5	26	..	0	1,503	15
191	5	30	..	..	1,535	14
203	5	32	..	..	1,563	14
23	463	3	8	..	111	57
24	456	3	8	..	113	56
14	407	2	5	13	105	51
13	377	2	5	..	106	50
*8	0	*1	..	..	*14	*7
*8	0	*1	..	..	*14	*7
*8	0	*1	..	..	*14	*6
*8	0	*1	..	..	*14	*6
196	223	4	0	1	339	12
229	205	6	0	14	340	12
188	366	7	4	16	315	11
199	384	8	0	-8	353	12
38	0	*1	..	..	152	13
41	0	*1	..	..	156	13
49	0	*1	..	..	165	14
55	0	*1	..	..	171	14
*5	0	*1	..	..	30	17
*6	0	*1	..	..	31	17
*6	0	*1	..	..	31	17
*6	0	*1	..	..	32	17
434	232	13	0	-4	953	20
310	77	31	0	0	938	19
301	73	34	0	0	932	19
252	1	30	2	..	*972	*19

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Country or area	Year	Primary energy production					
		Total	Solids	Liquids	Gases	Electricity	Heat
Lesotho	2015	*20	*19	..	..	2	..
	2016	*19	*17	..	..	2	..
	2017	18	16	..	..	2	..
	2018	*17	*15	..	..	2	..
Liberia	2015	76	76	..	..	0	..
	2016	79	79	..	..	0	..
	2017	81	81	..	..	0	..
	2018	84	84	..	..	0	..
Libya	2015	1,465	24	911	530	0	..
	2016	1,420	24	863	533	0	..
	2017	2,429	25	1,915	489	0	..
	2018	2,905	25	2,405	475	0	..
Madagascar	2015	209	205	..	..	3	..
	2016	263	259	..	..	3	..
	2017	272	269	..	..	3	..
	2018	*278	*274	..	..	3	..
Malawi	2015	68	61	..	..	*7	..
	2016	68	61	..	..	*7	..
	2017	68	62	..	..	*7	..
	2018	70	62	..	..	*7	..
Mali	2015	*153	*150	..	..	4	..
	2016	*156	*152	..	..	4	..
	2017	*159	*155	..	..	4	..
	2018	*161	*157	..	..	*4	..
Mauritania	2015	30	19	11	..	0	..
	2016	30	19	10	..	1	..
	2017	24	19	4	..	1	..
	2018	21	20	0	..	1	..
Mauritius	2015	12	11	..	0	1	..
	2016	11	10	..	0	1	..
	2017	10	10	..	0	1	..
	2018	10	9	..	0	1	..
Morocco	2015	62	43	0	3	16	0
	2016	90	67	0	3	15	4
	2017	89	67	0	3	15	4
	2018	99	65	0	3	20	10
Mozambique	2015	720	485	2	171	62	..
	2016	673	440	2	175	56	..
	2017	833	608	2	173	51	..
	2018	854	629	2	173	50	..
Namibia	2015	21	15	..	..	6	0
	2016	20	15	..	..	5	0
	2017	21	15	..	..	6	0
	2018	22	17	..	..	5	0
Niger	2015	100	68	32	..	0	..
	2016	105	71	35	..	0	..
	2017	*98	*59	39	..	0	..
	2018	*107	*71	35	..	0	..
Nigeria	2015	10,677	4,669	4,494	1,494	21	..
	2016	10,067	4,778	3,882	1,378	29	..
	2017	10,410	4,897	3,942	1,542	28	..
	2018	10,592	4,925	4,046	1,597	23	..
Rwanda	2015	*85	*84	..	0	1	..
	2016	*86	*84	..	*1	1	..
	2017	*86	*84	..	*1	1	..
	2018	*87	*85	..	*1	1	..

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
*26	0	0	..	..	*46	*22
*26	0	0	..	..	*45	*22
*28	0	0	..	..	*46	*22
*30	0	0	..	..	*47	*22
16	0	0	0	..	92	21
*19	0	0	0	..	97	21
*17	0	0	0	..	97	21
*14	0	0	0	..	98	20
287	965	2	3	..	781	122
258	896	2	3	..	775	119
249	1,915	2	9	..	752	114
241	2,388	2	11	..	745	112
44	0	*2	0	1	250	10
48	..	1	0	3	306	12
53	..	2	0	-1	325	13
51	..	*2	0	-5	*331	*13
13	0	0	..	..	80	5
15	0	0	..	..	82	5
17	0	0	..	..	84	5
20	1	0	..	..	88	5
*45	*2	*3	..	*-2	*195	*11
*48	*2	*3	..	*1	*198	*11
*50	*2	*3	..	*1	*204	*11
*52	*2	*3	..	0	*207	*11
*43	*11	*1	..	..	*61	*15
38	*10	1	..	..	56	14
54	*4	1	..	*2	71	17
71	0	1	..	*16	74	17
75	..	6	12	3	67	53
87	*4	6	14	6	67	53
108	..	7	19	22	69	55
104	..	7	24	14	69	54
806	20	28	6	15	799	23
778	1	28	6	3	831	23
817	1	30	6	1	869	24
836	1	32	6	24	871	24
96	319	*2	..	*43	451	17
127	414	*2	..	*-64	448	16
135	502	2	..	7	458	16
103	540	0	0	-26	444	15
62	3	2	..	..	78	34
67	3	2	..	..	83	35
67	3	2	..	..	84	35
67	4	2	..	0	84	34
8	*10	2	..	*1	94	5
6	13	2	..	0	97	5
8	*16	*3	..	*2	*85	*4
7	*15	*2	..	*2	*96	*4
717	5,388	15	15	-88	6,064	33
825	4,569	19	13	45	6,247	34
766	4,757	22	13	26	6,359	33
854	4,894	29	14	-76	6,585	34
14	0	*1	..	..	*98	*9
14	0	*1	..	0	*98	*8
14	0	*1	..	0	*99	*8
15	0	*1	..	0	*101	*8

Table 2**Components of Total Energy Supply**

Petajoules and gigajoules per capita

Country or area	Year	Primary energy production					
		Total	Solids	Liquids	Gases	Electricity	Heat
Sao Tome and Principe	2015	1	1	..	..	0	..
	2016	1	1	..	..	0	..
	2017	1	1	..	..	0	..
	2018	1	1	..	..	0	..
Senegal	2015	69	68	..	1	0	0
	2016	66	65	..	1	0	1
	2017	69	67	..	1	0	1
	2018	69	68	..	0	0	1
Seychelles	2015	0	0	..	..	0	..
	2016	0	0	..	..	0	..
	2017	0	0	..	..	0	..
	2018	0	0	..	..	0	..
Sierra Leone	2015	54	53	..	..	*1	..
	2016	54	54	..	..	*1	..
	2017	55	54	..	..	*1	..
	2018	55	54	..	..	0	..
Somalia	2015	129	129	..	..	..	..
	2016	136	136	..	..	..	..
	2017	139	139	..	..	..	..
	2018	143	143	..	..	..	..
South Africa	2015	6,640	6,421	17	43	20	139
	2016	6,530	6,294	3	26	25	182
	2017	6,565	6,321	4	23	33	184
	2018	6,618	6,399	4	35	39	141
South Sudan	2015	321	8	313	..	0	..
	2016	256	8	248	..	0	..
	2017	265	7	258	..	0	..
	2018	278	7	271	..	0	..
St. Helena and Depend.	2015	0	0	..	..	0	..
	2016	0	0	..	..	0	..
	2017	0	0	..	..	0	..
	2018	0	0	..	..	0	..
Sudan	2015	461	202	229	..	30	..
	2016	432	204	200	..	29	..
	2017	412	205	173	..	34	..
	2018	404	207	162	..	35	..
Togo	2015	112	112	..	..	0	..
	2016	116	115	..	..	1	..
	2017	108	107	..	..	1	..
	2018	114	114	..	..	1	..
Tunisia	2015	260	40	108	105	2	5
	2016	252	45	103	95	2	5
	2017	230	45	87	90	2	6
	2018	225	46	85	86	2	7
Uganda	2015	745	734	..	..	11	..
	2016	773	761	..	..	12	..
	2017	802	789	..	..	13	..
	2018	843	830	..	..	13	..
United Rep. of Tanzania	2015	723	685	..	31	8	..
	2016	735	697	..	29	9	..
	2017	752	716	..	27	9	..
	2018	774	739	..	26	8	..
Zambia	2015	411	364	..	..	47	..
	2016	419	380	..	..	40	..
	2017	447	403	..	..	44	..
	2018	469	424	..	..	46	..

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
*2	..	0	..	..	*3	*14
*2	..	0	..	..	*3	*14
*2	..	0	..	..	*3	*14
*2	..	*1	..	..	*3	*14
155	34	12	5	-4	178	12
154	37	9	6	-6	174	12
137	11	10	5	*-6	186	12
159	*19	9	*6	*4	191	12
15	0	*2	*7	0	7	71
17	0	*2	*7	*1	7	78
18	0	*2	7	0	8	80
16	0	*1	*7	0	8	80
*13	..	0	..	..	66	9
*13	..	0	..	..	67	9
*13	..	0	..	..	68	9
*14	..	0	..	..	68	9
*12	0	2	*1	..	138	10
*12	0	2	1	..	145	10
*12	0	2	*1	..	148	10
*12	..	2	*1	..	152	10
1,368	2,046	65	142	-5	5,760	104
1,299	1,814	73	67	..	5,875	105
1,396	1,885	95	32	..	5,949	104
1,424	1,921	58	111	36	5,916	102
27	310	3	..	..	35	3
24	245	3	..	..	32	3
21	255	3	..	..	27	3
18	268	3	..	..	26	2
0	..	..	..	..	0	27
0	..	..	..	..	0	35
0	..	..	..	..	0	26
0	..	..	..	..	0	32
94	46	*6	1	..	503	13
113	47	*7	1	0	491	12
140	12	*6	1	..	532	13
136	5	*5	*1	..	528	13
19	..	1	0	-1	131	18
24	..	2	..	-1	138	18
24	..	2	1	-1	130	17
26	..	3	..	-1	138	17
317	110	9	0	7	452	40
322	103	9	0	1	460	41
340	90	11	0	-5	473	41
345	83	13	0	-5	479	41
65	0	5	..	..	804	21
68	1	4	..	..	836	21
76	1	4	..	..	872	21
78	1	5	..	..	915	21
109	..	5	2	..	825	16
108	..	5	1	..	836	16
106	..	6	1	..	852	16
108	..	6	0	..	875	16
65	5	2	..	..	469	30
70	3	1	..	..	485	30
61	4	1	..	..	502	30
56	5	1	..	..	519	30

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Country or area	Year	Primary energy production					
		Total	Solids	Liquids	Gases	Electricity	Heat
Zimbabwe	2015	450	431	1	..	18	..
	2016	381	369	1	..	10	..
	2017	427	411	1	..	14	..
	2018	448	428	2	..	18	..
America, North	2015	115,127	23,807	40,984	35,502	3,446	11,388
	2016	110,388	20,230	39,814	35,147	3,740	11,458
	2017	114,154	21,284	41,620	35,721	4,093	11,436
	2018	122,359	21,452	46,069	39,128	4,179	11,531
Anguilla	2015	0	0	..	..	0	..
	2016	0	0	..	..	0	..
	2017	0	0	..	..	0	..
	2018	0	0	..	..	0	..
Antigua and Barbuda	2015	0	..	..	..	0	..
	2016	0	..	..	..	0	..
	2017	0	..	..	..	0	..
	2018	0	..	..	..	0	..
Aruba	2015	*1	0	..	..	0	..
	2016	*1	0	..	..	*1	..
	2017	*1	0	..	..	*1	..
	2018	*1	0	..	..	*1	..
Bahamas	2015	0	0	..	..	..	..
	2016	0	0	..	..	..	..
	2017	0	0	..	..	..	..
	2018	0	0	..	..	..	..
Barbados	2015	3	0	1	1	0	..
	2016	3	1	1	0	0	..
	2017	2	1	1	0	0	..
	2018	3	1	1	1	0	..
Belize	2015	9	5	3	0	1	..
	2016	8	5	3	0	1	..
	2017	9	5	2	0	1	..
	2018	8	5	2	0	1	..
Bermuda	2015	*1	*1	..	..	..	..
	2016	*1	*1	..	..	..	..
	2017	*1	*1	..	..	..	..
	2018	*1	*1	..	..	..	..
Bonaire, St Eustatius, Saba	2015	0	..	..	..	0	..
	2016	0	..	..	..	0	..
	2017	0	..	..	..	0	..
	2018	0	..	..	..	0	..
British Virgin Islands	2015	0	0	..	..	0	..
	2016	0	0	..	..	0	..
	2017	0	0	..	..	0	..
	2018	0	0	..	..	0	..
Canada	2015	19,766	1,825	9,514	5,843	1,483	1,101
	2016	20,053	1,713	9,495	6,234	1,513	1,097
	2017	21,276	1,794	10,463	6,377	1,547	1,096
	2018	22,149	1,807	11,235	6,494	1,522	1,090
Cayman Islands	2015	..	..	..	..	..	..
	2016	..	..	..	..	..	..
	2017	..	..	..	..	..	..
	2018	..	..	..	..	..	..
Costa Rica	2015	110	27	1	0	33	50
	2016	108	26	1	0	33	48
	2017	102	25	1	0	36	40
	2018	96	24	1	0	37	35

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
58	10	1	..	24	473	34
57	8	2	..	-38	465	33
60	6	3	..	13	465	33
67	6	3	..	7	498	34
32,713	28,606	1,280	1,039	2,062	114,853	202
34,872	30,200	1,327	1,191	-1,345	113,888	199
35,080	34,369	1,345	1,361	-1,518	113,677	197
34,717	38,193	1,385	1,289	-847	117,056	201
*2	..	..	..	..	*2	*154
*2	..	..	..	..	*2	*153
*2	..	..	..	..	*2	*139
*2	..	..	..	..	*2	*141
*10	0	*3	0	..	*7	*74
*10	0	*3	0	..	*7	*75
*10	0	*3	0	..	*7	*74
*10	0	*3	0	..	*7	*75
*16	..	*4	0	..	*13	*122
*16	..	*4	0	..	*13	*120
*16	..	*4	0	..	*13	*120
*16	..	*4	0	..	*13	*118
32	0	*2	*4	*-5	31	82
22	0	*1	*1	-8	29	76
28	0	*1	*3	*-6	30	79
38	0	*2	*2	*-5	39	101
22	1	*6	..	1	17	59
22	1	*5	..	1	17	60
21	1	*6	..	1	16	55
20	1	*5	..	0	17	59
10	3	1	..	0	16	44
10	2	1	..	0	15	42
10	2	1	..	0	16	43
10	1	1	..	0	16	42
8	..	*1	0	-1	8	127
9	..	*1	0	0	9	145
10	..	*1	0	*1	9	147
11	..	*1	0	0	10	165
*14	..	0	*9	..	*5	*214
*15	..	0	*9	..	*5	*218
*15	..	0	*9	..	*6	*220
*15	..	0	*9	..	*6	*219
*3	..	..	..	..	*3	*103
*3	..	..	..	..	*3	*102
*2	..	..	..	..	*2	*81
*2	..	..	..	..	*2	*76
3,657	11,519	36	9	49	11,810	328
3,722	12,003	26	14	-203	11,934	328
3,585	12,524	26	16	-23	12,318	335
3,531	13,068	37	19	110	12,446	336
9	..	1	..	..	8	130
9	..	2	..	..	8	126
10	..	2	..	..	8	131
10	..	2	..	..	9	136
108	3	*7	..	0	207	43
116	3	*8	..	-1	213	44
124	3	8	..	2	212	43
118	3	9	..	-3	205	41

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Country or area	Year	Primary energy production					
		Total	Solids	Liquids	Gases	Electricity	Heat
Cuba	2015	212	48	120	44	0	..
	2016	193	39	111	42	0	..
	2017	195	50	107	37	1	..
	2018	197	57	105	34	*1	..
Curaçao	2015	1	..	..	..	1	..
	2016	1	..	..	..	1	..
	2017	1	..	..	..	1	..
	2018	1	..	..	..	1	..
Dominica	2015	0	0	..	..	0	..
	2016	0	0	..	..	0	..
	2017	0	0	..	..	0	..
	2018	0	0	..	..	0	..
Dominican Republic	2015	23	19	..	0	5	..
	2016	27	20	..	0	7	..
	2017	32	22	..	0	10	..
	2018	32	23	..	0	9	..
El Salvador	2015	85	24	..	1	5	55
	2016	85	23	..	1	5	57
	2017	89	25	..	1	7	56
	2018	87	24	..	0	7	56
Greenland	2015	2	0	..	..	2	..
	2016	2	0	..	..	1	..
	2017	1	0	..	..	1	..
	2018	*2	0	..	..	*1	..
Grenada	2015	0	0	..	..	0	..
	2016	0	0	..	..	0	..
	2017	0	0	..	..	0	..
	2018	0	0	..	..	0	..
Guatemala	2015	311	266	21	0	15	9
	2016	354	309	19	0	16	10
	2017	343	291	20	0	22	9
	2018	343	294	19	0	21	9
Haiti	2015	139	138	0	..	0	..
	2016	141	140	0	..	0	..
	2017	143	142	0	..	0	..
	2018	145	144	0	..	1	..
Honduras	2015	117	104	..	..	12	..
	2016	123	109	..	..	14	..
	2017	106	86	..	..	17	3
	2018	130	100	..	..	19	11
Jamaica	2015	10	9	..	..	1	..
	2016	9	8	..	..	1	..
	2017	9	7	..	..	2	..
	2018	*8	*7	..	..	2	..
Mexico	2015	8,031	602	5,483	1,441	143	362
	2016	7,644	652	5,220	1,276	150	346
	2017	6,989	654	4,721	1,115	157	342
	2018	6,697	671	4,425	1,081	171	350
Montserrat	2015	..	..	..	..	..	..
	2016	..	..	..	..	..	..
	2017	..	..	..	..	..	..
	2018	..	..	..	..	..	..
Nicaragua	2015	92	64	..	..	4	24
	2016	93	64	..	..	4	25
	2017	91	60	..	..	4	27
	2018	97	63	..	..	4	29

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
327	*48	5	27	..	459	41
294	*19	8	26	*-1	435	38
266	*31	7	*19	..	404	36
237	*39	3	*18	..	375	33
509	340	3	66	..	101	630
469	316	3	65	..	86	534
298	165	3	65	..	66	408
246	122	3	65	..	58	356
*2	0	0	0	0	*3	*37
*3	0	0	0	0	*3	*38
*2	0	0	0	0	*2	*34
*2	0	0	0	0	*2	*34
325	0	22	..	1	326	32
345	0	22	0	0	350	34
337	0	24	1	3	341	32
355	0	24	1	-2	364	34
101	1	7	..	..	178	28
106	7	7	..	..	177	28
101	8	7	..	..	176	27
108	8	8	..	..	179	28
8	..	..	0	1	9	155
8	..	..	1	0	9	153
8	..	..	1	0	9	156
*8	..	..	*1	0	*9	*159
4	..	0	..	0	4	37
4	..	0	..	0	4	38
4	..	0	..	0	4	39
5	..	0	..	0	5	43
249	38	3	16	24	480	30
250	38	3	17	9	537	32
250	37	4	18	4	531	31
257	34	5	18	-3	546	32
38	..	1	..	0	176	16
42	..	1	..	..	182	17
44	..	1	..	..	186	17
48	..	1	..	..	192	17
119	20	3	0	-30	241	26
123	13	2	1	-12	240	26
132	12	3	3	3	218	23
150	13	2	3	5	257	27
129	11	9	1	0	117	41
130	11	9	1	-2	120	41
131	12	8	2	2	115	39
131	12	9	2	0	117	40
2,954	3,025	143	36	-49	7,830	64
3,530	3,151	154	38	6	7,826	63
3,935	3,066	165	34	37	7,622	61
4,302	3,077	181	35	72	7,634	60
1	..	0	0	0	1	154
0	..	0	0	0	0	84
0	..	0	0	0	0	75
0	..	0	0	..	0	*77
72	1	1	..	-3	165	27
74	1	1	..	*-1	166	26
76	1	1	..	0	166	26
72	1	1	..	0	167	26

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Country or area	Year	Primary energy production					
		Total	Solids	Liquids	Gases	Electricity	Heat
Panama	2015	36	12	..	..	24	..
	2016	39	13	..	..	26	..
	2017	42	13	..	..	28	..
	2018	44	13	..	..	31	..
Puerto Rico	2015	1	..	..	..	1	..
	2016	1	..	..	..	1	..
	2017	1	..	..	..	1	..
	2018	1	..	..	..	1	..
Sint Maarten (Dutch part)	2015	..	..	..	..	..	..
	2016	..	..	..	..	..	..
	2017	..	..	..	..	..	..
	2018	..	..	..	..	..	..
St. Kitts-Nevis	2015	0	0	..	..	0	..
	2016	0	0	..	..	0	..
	2017	0	0	..	..	0	..
	2018	0	0	..	..	0	..
St. Lucia	2015	*1	*1	..	..	..	..
	2016	*1	*1	..	..	..	..
	2017	*1	*1	..	..	..	..
	2018	*1	*1	..	..	0	..
St. Pierre-Miquelon	2015	0	0	..	..	0	..
	2016	0	0	..	..	0	..
	2017	0	0	..	..	..	..
	2018	0	0	..	..	..	..
St. Vincent-Grenadines	2015	0	0	..	..	0	..
	2016	0	0	..	..	0	..
	2017	0	0	..	..	0	..
	2018	0	0	..	..	0	..
Trinidad and Tobago	2015	1,557	0	217	1,339	0	..
	2016	1,370	0	195	1,175	0	..
	2017	1,367	0	197	1,170	0	..
	2018	1,435	0	174	1,260	0	..
Turks and Caicos Islands	2015	0	0	..	..	..	..
	2016	0	0	..	..	..	..
	2017	0	0	..	..	..	..
	2018	0	0	..	..	..	..
United States	2015	84,620	20,662	25,624	26,834	1,714	9,787
	2016	80,132	17,105	24,768	26,419	1,965	9,874
	2017	83,352	18,106	26,107	27,022	2,257	9,861
	2018	90,881	18,217	30,106	30,256	2,349	9,953
United States Virgin Is.	2015	0	..	..	..	0	..
	2016	0	..	..	..	0	..
	2017	0	..	..	..	0	..
	2018	0	..	..	..	0	..
America, South	2015	31,623	6,497	17,730	4,705	2,452	239
	2016	31,287	6,636	16,973	4,849	2,565	264
	2017	30,692	6,697	16,272	4,846	2,635	242
	2018	29,434	6,565	15,152	4,721	2,745	251
Argentina	2015	3,059	77	1,404	1,352	150	77
	2016	3,111	78	1,389	1,417	137	*89
	2017	3,035	85	1,329	1,405	151	66
	2018	3,152	96	1,353	1,480	153	70
Bolivia (Plur. State of)	2015	949	39	143	758	9	..
	2016	913	41	140	725	6	..
	2017	887	40	136	703	8	..
	2018	835	*40	129	656	10	..

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
266	1	28	124	-21	171	43
299	1	30	143	-6	170	42
339	1	30	173	-11	188	46
341	1	32	167	2	183	44
52	..	..	..	..	53	16
59	..	..	..	..	61	18
49	..	..	..	..	50	16
*50	..	..	..	..	*50	*17
*22	..	*2	*8	..	*12	*295
*22	..	*2	*8	..	*12	*293
*22	..	*2	*8	..	*12	*282
*21	..	*2	*8	..	*11	*268
*4	..	0	..	..	*3	*65
*4	..	0	..	..	*3	*67
*4	..	0	..	..	*3	*67
*4	..	0	..	..	*4	*67
*8	..	1	0	..	*8	*43
*9	..	1	0	..	*8	*42
*9	..	1	0	..	*8	*44
*9	..	1	0	..	*8	*44
*1	..	..	0	..	*1	*153
*1	..	..	0	..	*1	*156
*1	..	..	0	..	*1	*157
*1	..	..	0	..	*1	*146
3	0	0	..	0	4	33
4	0	0	..	0	4	33
3	0	0	..	0	3	29
4	0	0	..	0	4	33
171	892	11	21	7	797	582
221	830	14	26	14	707	513
193	816	10	21	10	703	508
137	824	8	17	6	715	515
*3	..	..	..	..	*3	*80
*3	..	..	..	..	*3	*82
*3	..	..	..	..	*3	*87
*3	..	..	..	..	*3	*88
23,452	12,701	981	717	2,088	91,585	285
24,916	13,804	1,019	839	-1,142	90,528	280
25,038	17,691	1,027	986	-1,539	90,227	278
24,443	20,988	1,042	922	-1,029	93,400	286
..	..	..	..	..	0	*1
..	..	..	..	..	0	*1
..	..	..	..	..	0	*1
..	..	..	..	..	0	*1
6,224	13,167	292	281	28	24,078	58
5,915	13,093	292	219	-104	23,702	57
6,192	13,323	283	218	-774	23,833	57
6,074	12,255	302	225	-349	23,076	55
644	196	40	37	9	3,423	79
640	255	41	28	-1	3,428	79
650	219	43	33	4	3,385	77
562	355	39	30	1	3,288	74
44	635	4	..	-9	364	33
43	579	4	..	-12	385	35
52	554	3	..	-15	398	36
61	498	3	..	-9	404	36

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Country or area	Year	Primary energy production					
		Total	Solids	Liquids	Gases	Electricity	Heat
Brazil	2015	11,567	3,012	6,246	777	1,373	159
	2016	11,927	3,052	6,405	806	1,492	171
	2017	12,366	3,124	6,676	905	1,491	170
	2018	12,538	3,206	6,720	855	1,587	169
Chile	2015	541	390	12	39	98	1
	2016	525	365	11	46	102	2
	2017	543	376	12	47	104	4
	2018	571	379	17	48	116	10
Colombia	2015	5,394	2,551	2,233	435	175	..
	2016	5,235	2,680	1,977	401	177	..
	2017	5,198	2,663	1,902	411	221	..
	2018	5,047	2,469	1,933	429	216	..
Ecuador	2015	1,260	23	1,161	29	48	0
	2016	1,287	23	1,176	31	57	0
	2017	1,263	24	1,137	29	73	0
	2018	1,240	22	1,116	27	75	0
Falkland Is. (Malvinas)	2015	0	0	..	..	0	..
	2016	0	0	..	..	0	..
	2017	0	0	..	..	0	..
	2018	0	0	..	..	0	..
Guyana	2015	7	7	..	..	0	..
	2016	7	7	..	..	0	..
	2017	7	7	..	..	0	..
	2018	5	5	..	..	0	..
Paraguay	2015	350	144	5	..	201	..
	2016	374	138	6	..	230	..
	2017	362	141	6	..	215	..
	2018	346	126	7	..	213	..
Peru	2015	938	100	269	479	88	1
	2016	957	98	233	531	94	1
	2017	912	96	233	471	110	1
	2018	918	95	238	464	119	1
Suriname	2015	40	2	36	0	3	..
	2016	39	2	34	0	3	..
	2017	39	2	34	0	3	..
	2018	40	2	34	0	4	..
Uruguay	2015	126	86	3	..	37	..
	2016	132	89	3	..	40	..
	2017	136	92	3	..	42	..
	2018	137	91	3	..	42	..
Venezuela (Bolivar. Rep.)	2015	7,390	66	6,217	837	270	..
	2016	6,780	63	5,598	892	227	..
	2017	5,944	48	4,803	875	218	..
	2018	4,608	34	3,601	763	210	..
Asia	2015	260,641	122,657	80,741	44,336	7,162	5,745
	2016	264,113	118,909	85,642	45,368	7,828	6,365
	2017	267,975	121,958	84,370	46,348	8,507	6,791
	2018	276,234	128,046	84,095	47,132	9,346	7,615
Afghanistan	2015	61	52	..	5	4	..
	2016	71	60	..	6	4	..
	2017	83	73	..	5	4	..
	2018	89	80	..	5	4	..
Armenia	2015	45	6	..	..	8	30
	2016	43	8	..	..	8	26
	2017	45	9	..	..	8	29
	2018	37	6	..	..	8	23

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
2,964	1,880	103	174	-19	12,393	61
2,444	2,100	95	143	29	12,004	58
2,697	2,521	93	141	18	12,289	59
2,649	2,716	105	121	48	12,196	58
1,047	45	23	5	4	1,510	84
1,143	50	24	5	6	1,582	87
1,141	46	26	6	4	1,603	87
1,149	45	28	5	7	1,635	87
276	3,859	56	12	41	1,701	36
378	3,872	57	14	-96	1,767	37
278	4,426	56	11	-711	1,693	35
193	3,870	64	6	-330	1,630	33
296	930	8	34	-20	603	37
246	929	10	12	-15	597	36
254	902	11	15	-26	614	37
269	889	11	29	-16	596	35
0	..	..	..	..	1	201
0	..	..	..	..	1	194
0	..	..	..	..	1	173
0	..	..	..	..	1	173
28	..	1	..	0	35	45
31	..	1	..	0	37	48
31	..	1	..	0	37	48
33	..	1	..	0	38	48
84	151	1	..	0	281	42
103	177	2	..	3	295	44
108	160	3	..	-5	313	46
121	155	3	..	1	307	44
364	356	37	..	19	890	29
464	441	42	..	-14	953	31
535	482	30	..	-38	973	31
506	422	30	21	-50	1,001	31
23	17	*2	2	0	43	77
21	18	*2	2	0	37	66
20	16	*2	2	..	40	70
20	15	*2	2	..	41	71
105	5	4	7	3	213	62
96	3	4	6	-4	219	64
90	5	4	4	-5	217	63
101	4	5	6	-1	223	65
348	5,093	14	10	0	2,622	87
305	4,669	11	8	0	2,397	80
336	3,991	12	7	0	2,271	77
409	3,285	10	6	..	1,716	59
106,780	91,500	3,065	4,369	172	268,316	61
111,727	99,530	3,275	4,353	-3,045	271,726	61
118,695	100,174	3,379	4,520	-137	278,735	62
123,272	102,007	3,527	4,516	1,852	287,605	63
88	12	0	..	..	136	4
72	21	0	..	..	122	3
69	28	0	..	..	124	3
84	31	0	..	..	142	4
98	5	*1	..	1	135	46
94	4	2	..	0	130	44
101	5	2	..	1	137	46
103	6	3	..	0	131	44

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Country or area	Year	Primary energy production					
		Total	Solids	Liquids	Gases	Electricity	Heat
Azerbaijan	2015	2,474	6	1,785	676	6	..
	2016	2,429	4	1,760	658	7	..
	2017	2,308	4	1,658	639	6	..
	2018	2,349	4	1,663	675	7	..
Bahrain	2015	957	0	441	517	0	..
	2016	940	0	443	497	0	..
	2017	942	0	431	512	0	..
	2018	946	0	427	520	0	..
Bangladesh	2015	1,510	606	13	887	3	..
	2016	1,602	615	14	968	5	..
	2017	1,605	619	18	964	5	..
	2018	1,602	615	18	963	5	..
Bhutan	2015	77	49	..	..	28	..
	2016	79	50	..	..	29	..
	2017	79	52	..	..	28	..
	2018	77	52	..	..	25	..
Brunei Darussalam	2015	673	0	279	394	0	..
	2016	633	0	252	380	0	..
	2017	652	0	235	416	0	..
	2018	639	0	232	407	0	..
Cambodia	2015	184	177	..	..	7	..
	2016	191	182	..	..	9	..
	2017	198	188	..	..	10	..
	2018	211	194	..	..	17	..
China	2015	100,808	80,044	9,334	4,765	4,821	1,845
	2016	95,691	74,411	8,737	4,980	5,261	2,303
	2017	99,228	76,957	8,447	5,442	5,703	2,679
	2018	103,893	80,671	8,358	5,412	6,273	3,179
China, Hong Kong SAR	2015	..	..	..	..	..	..
	2016	..	..	..	..	..	..
	2017	..	..	..	..	..	..
	2018	..	..	..	..	..	..
China, Macao SAR	2015	*5	*5	..	..	..	..
	2016	*5	*5	..	..	..	..
	2017	*6	*6	..	..	..	..
	2018	6	6	..	..	..	..
Cyprus	2015	5	1	0	0	1	3
	2016	6	1	0	0	1	3
	2017	6	1	0	1	1	3
	2018	6	1	..	1	2	3
Georgia	2015	55	22	2	0	30	1
	2016	58	21	2	0	34	1
	2017	56	20	1	0	33	1
	2018	52	14	1	0	36	1
India	2015	22,818	19,005	1,740	*1,097	571	404
	2016	23,219	19,343	1,747	1,106	614	409
	2017	23,410	19,436	1,746	1,132	682	414
	2018	23,847	19,759	1,665	1,154	860	408
Indonesia	2015	17,377	12,637	1,987	2,380	63	309
	2016	18,175	13,314	2,054	2,345	77	384
	2017	18,277	13,406	2,097	2,247	67	460
	2018	20,571	15,580	2,172	2,287	71	461
Iran (Islamic Rep. of)	2015	13,637	116	6,893	6,545	52	31
	2016	16,412	*115	9,087	7,079	60	71
	2017	17,337	*126	9,433	7,641	56	81
	2018	17,056	*130	8,809	7,979	57	81

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
12	1,889	12	2	-22	605	63
25	1,857	8	2	-13	599	62
97	1,770	7	2	21	604	61
78	1,806	5	2	7	607	61
475	839	19	..	-4	577	421
462	821	19	..	6	556	390
484	844	20	..	-16	579	387
485	835	21	..	-7	582	371
308	2	15	4	-7	1,803	12
286	5	15	5	-16	1,879	12
343	2	17	5	-18	1,943	12
336	0	18	5	-49	1,964	12
8	21	0	..	..	64	88
8	21	0	..	..	66	90
9	21	0	..	..	67	90
11	16	0	..	..	71	94
14	566	4	4	0	114	274
16	523	3	2	-3	124	295
19	521	3	..	-5	153	359
16	488	4	..	8	156	364
115	..	4	..	..	295	19
130	..	4	..	..	318	20
144	..	5	..	-2	339	21
138	..	5	..	..	344	21
21,993	2,411	334	374	-187	119,870	85
25,500	3,035	369	391	-2,375	119,771	85
28,316	3,205	409	412	-91	123,608	87
31,448	3,387	445	440	1,417	129,651	91
1,298	33	271	360	59	576	80
1,314	20	276	375	53	590	81
1,344	17	292	450	-2	587	80
1,363	11	302	455	6	589	80
44	..	..	3	1	45	74
43	..	..	3	0	46	74
46	..	..	3	1	48	78
39	..	..	3	0	42	66
104	1	10	10	3	86	74
111	1	12	12	1	91	78
113	0	13	11	1	94	80
113	..	14	11	-1	95	80
163	17	3	..	1	198	49
160	11	3	..	0	204	51
165	11	4	..	-1	206	51
165	7	5	0	2	204	51
16,294	2,748	*193	57	48	36,066	28
16,514	2,869	*216	61	-214	36,802	28
17,906	3,254	*167	64	-252	38,083	28
18,783	3,106	*182	*68	90	39,184	29
2,280	10,891	37	12	-30	8,747	34
2,174	11,032	34	14	-119	9,389	36
2,303	11,440	43	14	*35	9,048	34
2,444	12,492	46	9	55	10,415	39
478	3,952	58	197	7	9,901	126
393	6,717	66	84	-170	10,108	127
366	6,959	*70	58	-186	10,802	134
342	6,276	*72	58	..	10,992	134

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Country or area	Year	Primary energy production					
		Total	Solids	Liquids	Gases	Electricity	Heat
Iraq	2015	7,565	2	7,316	238	*9	..
	2016	9,667	2	9,391	261	12	..
	2017	9,882	2	9,575	297	8	..
	2018	9,994	2	9,580	404	8	..
Israel	2015	274	2	3	249	4	16
	2016	306	2	5	277	6	16
	2017	320	2	3	293	6	16
	2018	339	2	4	312	6	15
Japan	2015	1,342	549	20	101	459	212
	2016	1,460	558	19	108	473	301
	2017	1,721	608	19	112	523	459
	2018	2,100	629	17	102	544	808
Jordan	2015	8	3	0	4	1	..
	2016	10	3	0	3	3	..
	2017	11	3	0	4	4	..
	2018	12	3	0	3	6	..
Kazakhstan	2015	6,650	1,834	3,386	1,397	34	..
	2016	6,669	1,834	3,324	1,468	43	..
	2017	7,389	2,012	3,671	1,663	42	..
	2018	7,378	2,040	3,888	1,410	39	..
Korea, Dem.Ppl's.Rep.	2015	789	752	..	..	36	..
	2016	912	866	..	..	46	..
	2017	646	603	..	..	43	..
	2018	558	511	..	..	46	..
Korea, Republic of	2015	2,125	241	51	15	29	1,789
	2016	2,125	258	58	13	37	1,760
	2017	2,028	288	60	20	45	1,615
	2018	1,866	267	70	18	56	1,455
Kuwait	2015	7,011	0	6,432	578	..	..
	2016	7,278	0	6,687	591	0	..
	2017	6,772	0	6,187	585	0	..
	2018	6,870	0	6,264	607	0	..
Kyrgyzstan	2015	75	30	5	1	40	..
	2016	77	28	6	1	41	..
	2017	88	28	7	1	51	..
	2018	97	36	8	1	52	..
Lao People's Dem. Rep.	2015	162	111	..	..	51	..
	2016	267	202	..	..	65	..
	2017	276	205	..	..	72	..
	2018	291	213	..	..	*79	..
Lebanon	2015	8	5	..	..	2	1
	2016	7	5	..	..	1	1
	2017	*8	*5	..	..	2	*1
	2018	*7	*5	..	..	1	*1
Malaysia	2015	3,748	101	1,418	2,178	51	..
	2016	3,812	99	1,485	2,154	73	..
	2017	3,831	112	1,435	2,188	97	..
	2018	3,952	107	1,439	2,309	97	..
Maldives	2015	0	0	..	..	0	..
	2016	0	0	..	..	0	..
	2017	0	0	..	..	0	..
	2018	0	0	..	..	0	..
Mongolia	2015	654	610	44	..	..	..
	2016	959	918	41	..	..	..
	2017	1,311	1,273	38	..	..	..
	2018	1,394	1,362	32	..	..	..

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
572	6,259	23	9	-152	1,997	56
754	7,939	29	11	133	2,309	63
797	8,048	28	12	15	2,576	69
828	8,079	27	12	27	2,677	70
987	283	37	11	14	915	115
891	261	40	6	-29	918	113
938	265	45	10	33	906	110
905	274	48	12	-26	935	112
17,917	791	268	172	-58	18,086	141
17,549	797	280	181	-74	17,824	140
17,568	770	293	169	-52	18,108	142
17,011	778	302	178	-6	17,859	140
369	0	4	0	4	368	40
396	26	4	4	2	371	39
431	39	3	3	6	391	40
383	11	3	0	0	382	38
312	3,910	*13	0	21	3,018	172
348	3,786	*15	0	13	3,203	180
336	4,306	*21	0	45	3,353	185
456	4,676	27	1	28	3,103	169
70	527	..	..	..	332	13
81	599	..	..	..	394	16
63	*130	..	..	*272	307	12
43	..	..	..	*335	265	10
12,565	2,633	183	378	68	11,428	225
13,025	2,695	204	422	-1	11,829	232
13,252	2,799	209	409	42	11,821	231
13,558	2,967	220	382	29	11,826	231
138	5,751	33	50	-75	1,389	362
172	5,958	32	45	-108	1,522	385
192	5,557	40	39	-127	1,455	359
173	5,634	40	39	-130	1,460	353
118	10	5	..	12	167	28
96	10	5	..	-4	162	27
96	16	1	..	5	162	26
117	24	0	..	-2	192	30
50	42	*1	..	..	169	25
*46	71	*1	..	*34	206	30
*46	90	*2	..	*-1	232	33
*46	98	*2	..	*-1	239	34
340	..	*9	*1	..	337	52
352	..	*11	*1	..	348	52
374	..	*12	*1	..	369	54
353	..	*12	1	..	348	51
1,912	2,156	107	14	-41	3,424	113
2,068	2,266	103	12	-46	3,545	116
2,042	2,264	110	16	3	3,480	112
2,346	2,329	107	17	13	3,832	122
22	..	*1	*2	..	19	41
24	..	*1	*2	..	21	43
24	..	*1	*2	..	22	44
28	..	*1	*3	..	25	48
53	418	..	..	17	272	91
49	716	..	..	-3	294	96
61	851	..	..	126	395	127
67	929	..	..	-10	541	171

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Country or area	Year	Primary energy production					
		Total	Solids	Liquids	Gases	Electricity	Heat
Myanmar	2015	1,176	465	34	642	34	..
	2016	1,207	474	28	670	35	..
	2017	1,187	482	25	639	40	..
	2018	1,215	488	21	652	53	..
Nepal	2015	424	399	..	12	12	..
	2016	430	403	..	12	15	..
	2017	438	410	..	12	17	..
	2018	446	417	..	12	18	..
Oman	2015	3,228	0	2,044	1,184	0	..
	2016	3,310	0	2,101	1,209	0	..
	2017	3,242	0	2,028	1,214	0	..
	2018	3,446	0	2,074	1,371	0	..
Other Asia	2015	501	65	2	12	25	398
	2016	453	63	1	10	33	346
	2017	348	61	0	8	32	247
	2018	404	63	0	6	32	303
Pakistan	2015	2,158	646	198	1,131	120	63
	2016	2,193	665	203	1,147	128	50
	2017	2,213	664	213	1,138	123	74
	2018	2,234	682	210	1,126	110	106
Philippines	2015	999	402	43	122	34	398
	2016	1,106	487	45	140	37	399
	2017	1,098	507	41	138	43	370
	2018	1,118	504	42	154	42	376
Qatar	2015	9,249	0	3,101	6,148	..	..
	2016	9,450	0	3,224	6,226	..	..
	2017	9,319	0	3,116	6,204	..	..
	2018	9,138	0	2,968	6,170	..	..
Saudi Arabia	2015	27,723	..	23,515	4,208	0	..
	2016	28,663	..	24,238	4,425	0	..
	2017	28,103	..	23,572	4,530	0	..
	2018	28,567	..	23,861	4,706	0	..
Singapore	2015	28	28	..	..	0	..
	2016	28	28	..	..	1	..
	2017	28	27	..	..	1	..
	2018	26	25	..	..	1	..
Sri Lanka	2015	181	158	..	..	23	..
	2016	169	153	..	..	17	..
	2017	167	150	..	..	17	..
	2018	*175	*151	..	..	25	..
State of Palestine	2015	9	4	..	..	0	5
	2016	10	4	..	..	0	5
	2017	8	3	..	..	0	6
	2018	8	2	..	..	0	6
Syrian Arab Republic	2015	196	0	49	146	1	..
	2016	175	0	44	127	3	..
	2017	172	0	44	126	3	..
	2018	169	0	42	125	3	..
Tajikistan	2015	*131	*69	1	0	61	..
	2016	144	83	1	0	60	..
	2017	*157	*94	1	0	62	..
	2018	*165	*97	1	0	66	..
Thailand	2015	3,157	1,124	900	1,110	23	0
	2016	3,299	1,260	921	1,092	26	0
	2017	3,133	1,158	910	1,027	37	0
	2018	3,051	1,097	895	1,009	49	0

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
154	450	..	0	32	848	16
203	529	..	..	10	872	16
166	*495	..	..	-2	860	16
278	498	3	0	..	991	18
78	0	3	..	0	499	18
117	0	6	..	0	542	20
139	0	6	..	..	572	21
152	0	5	..	..	593	21
84	2,188	19	52	3	1,051	246
85	2,291	8	68	7	1,021	228
95	2,180	11	41	0	1,104	237
91	2,340	13	100	*-7	1,091	226
4,982	712	113	44	17	4,599	195
5,038	728	121	52	-20	4,610	195
5,148	716	125	49	10	4,596	194
5,066	768	128	47	-51	4,578	193
1,117	18	9	6	13	3,229	16
1,698	20	11	4	2	3,854	19
2,148	33	*11	2	*-3	4,318	21
2,359	38	*9	2	0	4,545	21
1,277	156	54	1	14	2,050	20
1,376	234	58	2	5	2,183	21
1,487	225	71	4	-35	2,321	22
1,618	208	73	4	59	2,393	22
26	7,572	53	..	110	1,540	600
24	7,767	76	..	118	1,513	570
5	7,531	121	..	-15	1,688	620
10	7,200	126	..	13	1,809	650
1,274	18,324	116	128	121	10,307	325
1,194	19,916	124	140	-300	9,977	308
1,228	19,212	135	134	-186	10,035	303
1,973	20,506	152	142	*-210	9,950	295
7,236	3,855	*304	1,829	40	1,236	221
7,369	4,152	*322	1,969	-17	971	172
7,899	4,349	*332	2,051	*27	1,166	204
7,277	3,888	*350	2,018	-23	1,070	186
256	8	16	15	-36	433	21
300	4	23	24	-49	467	22
308	0	24	23	-33	461	22
317	4	22	25	-3	444	21
63	0	..	..	0	72	16
67	0	..	..	0	77	17
68	0	..	..	..	76	16
65	0	..	..	0	74	15
277	30	0	19	..	424	24
303	32	0	17	..	429	25
339	37	0	16	..	459	27
318	35	0	15	..	437	26
43	6	2	..	..	167	20
42	6	2	..	..	178	21
36	5	1	..	..	187	21
47	12	1	..	..	199	22
3,315	595	164	47	-28	5,695	83
3,303	543	175	49	8	5,827	84
3,477	591	183	47	-6	5,795	84
3,675	630	198	56	165	5,678	82

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Country or area	Year	Primary energy production					
		Total	Solids	Liquids	Gases	Electricity	Heat
Timor-Leste	2015	402	1	131	270	0	..
	2016	326	1	104	222	0	..
	2017	289	1	85	203	0	..
	2018	*265	1	69	*195	0	..
Turkey	2015	1,317	655	116	24	284	238
	2016	1,495	760	118	27	302	287
	2017	1,527	761	118	30	284	334
	2018	1,671	801	132	35	316	386
Turkmenistan	2015	3,407	0	553	2,854	..	..
	2016	3,230	0	510	2,720	..	..
	2017	3,223	0	477	2,745	..	..
	2018	3,331	0	452	2,879	..	..
United Arab Emirates	2015	9,995	..	7,879	2,113	0	*3
	2016	10,293	..	8,145	2,145	0	*2
	2017	9,790	..	7,885	1,899	2	3
	2018	9,626	..	7,935	1,685	4	3
Uzbekistan	2015	2,058	53	124	1,857	25	..
	2016	2,111	59	119	1,909	25	..
	2017	2,141	61	126	1,926	29	..
	2018	2,310	63	132	2,094	21	..
Viet Nam	2015	3,035	1,614	839	374	207	..
	2016	2,853	1,557	688	373	235	..
	2017	2,802	1,536	618	327	321	..
	2018	2,553	1,359	550	339	304	..
Yemen	2015	173	5	64	103	0	..
	2016	64	5	41	18	1	..
	2017	75	5	47	22	1	..
	2018	74	5	64	4	2	..
Europe	2015	101,269	21,363	30,413	32,059	4,115	13,319
	2016	102,683	21,630	31,064	32,672	4,241	13,075
	2017	104,721	21,747	31,022	34,569	4,281	13,100
	2018	106,862	22,971	31,333	34,790	4,608	13,160
Albania	2015	87	10	54	1	21	0
	2016	82	8	45	3	26	1
	2017	68	8	41	3	16	1
	2018	81	9	39	3	31	1
Andorra	2015	1	0	..	..	0	..
	2016	1	0	..	..	0	..
	2017	*1	0	..	..	0	..
	2018	*1	0	..	..	0	..
Austria	2015	501	226	55	56	155	9
	2016	513	233	50	53	167	9
	2017	516	238	46	57	166	9
	2018	488	227	43	46	162	9
Belarus	2015	163	83	73	7	1	..
	2016	166	86	73	6	1	..
	2017	180	98	74	6	2	..
	2018	171	88	76	6	2	..
Belgium	2015	444	94	16	10	32	292
	2016	637	98	15	10	32	482
	2017	626	94	18	9	36	468
	2018	484	95	17	10	42	320
Bosnia and Herzegovina	2015	173	153	..	..	20	..
	2016	199	178	..	..	20	..
	2017	194	180	..	..	14	..
	2018	238	214	..	..	24	..

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
*7	401	0	..	..	8	7
*7	325	0	..	..	8	6
*7	288	0	..	..	8	6
*7	*264	0	..	..	*8	*6
4,710	360	153	35	89	5,390	69
4,743	307	147	36	33	5,715	72
5,205	326	152	35	79	6,139	76
4,842	250	163	38	31	6,030	73
0	2,227	21	..	..	1,160	208
0	2,052	21	..	..	1,158	204
0	2,044	21	..	..	1,158	201
0	2,151	21	..	..	1,160	198
1,788	7,346	344	*521	..	3,571	386
1,759	7,740	365	*345	*2	3,600	385
1,967	8,083	326	425	74	2,848	300
2,043	8,301	301	358	60	2,649	275
175	451	*4	..	43	1,734	56
141	378	*4	..	23	1,847	59
141	429	*3	..	15	1,835	57
87	518	*4	..	-69	1,944	60
593	520	41	7	*74	2,985	32
713	437	62	8	*66	2,993	32
704	406	38	9	83	2,970	31
706	122	48	12	102	2,975	31
127	114	1	5	..	180	7
93	*9	0	5	..	144	5
80	*10	0	4	..	140	5
81	*14	0	4	0	137	5
67,523	59,739	2,271	2,639	184	103,959	139
67,394	60,680	2,339	2,692	-788	105,153	141
70,234	62,362	2,520	2,762	251	107,059	143
68,713	61,507	2,622	2,589	-311	109,167	146
63	53	0	1	6	91	31
61	45	0	1	5	91	31
67	28	0	2	6	100	35
54	38	0	1	5	91	32
8	0	0	..	..	9	113
8	0	0	..	..	9	116
8	0	0	..	..	9	117
9	0	0	..	..	9	122
1,265	412	30	1	-48	1,371	158
1,339	450	33	1	-17	1,385	158
1,349	413	31	1	3	1,416	161
1,333	416	35	1	-7	1,377	155
1,713	817	5	..	-13	1,067	113
1,534	662	5	..	-27	1,060	112
1,546	640	6	..	-1	1,081	114
1,584	589	6	..	22	1,139	120
3,409	1,323	62	246	39	2,182	193
3,314	1,318	62	282	-19	2,308	203
3,511	1,505	68	317	-53	2,300	201
3,675	1,459	72	393	21	2,215	193
140	52	0	..	11	250	73
143	55	0	..	4	282	83
146	51	0	..	11	278	83
142	67	0	..	0	312	94

Table 2**Components of Total Energy Supply**

Petajoules and gigajoules per capita

Country or area	Year	Primary energy production					
		Total	Solids	Liquids	Gases	Electricity	Heat
Bulgaria	2015	507	298	3	4	31	171
	2016	474	265	4	6	24	175
	2017	493	289	5	5	21	173
	2018	506	289	6	3	28	179
Croatia	2015	184	64	29	63	26	1
	2016	185	65	32	59	29	1
	2017	176	65	32	54	24	1
	2018	175	63	32	46	33	1
Czechia	2015	1,207	847	18	34	17	292
	2016	1,144	816	16	33	17	262
	2017	1,157	782	17	33	17	308
	2018	1,154	762	17	33	17	326
Denmark	2015	667	101	331	180	53	2
	2016	628	101	298	179	49	2
	2017	649	108	290	193	56	3
	2018	577	108	244	168	54	3
Estonia	2015	234	231	..	1	3	..
	2016	208	205	..	1	2	..
	2017	243	239	..	1	3	..
	2018	277	273	..	1	2	..
Faeroe Islands	2015	1	..	..	..	1	..
	2016	1	..	..	..	1	..
	2017	1	..	..	..	1	..
	2018	1	..	..	..	1	..
Finland	2015	732	387	16	4	69	255
	2016	737	403	5	5	68	256
	2017	753	415	12	7	71	248
	2018	812	473	11	8	69	251
France	2015	5,778	539	157	31	307	4,744
	2016	5,460	575	147	33	329	4,375
	2017	5,374	557	151	35	305	4,327
	2018	5,622	559	162	37	378	4,486
Germany	2015	5,015	2,627	282	580	498	1,028
	2016	4,810	2,476	287	595	499	953
	2017	4,794	2,473	287	576	595	863
	2018	4,666	2,371	289	517	625	865
Gibraltar	2015	..	..	..	..	..	..
	2016	0	..	..	..	0	..
	2017	0	..	..	..	0	..
	2018	0	..	..	..	0	..
Greece	2015	354	281	8	4	53	9
	2016	283	202	12	5	53	11
	2017	301	225	11	5	49	12
	2018	301	213	14	5	57	12
Guernsey	2015	..	..	..	..	..	..
	2016	..	..	..	..	..	..
	2017	..	..	..	..	..	..
	2018	..	..	..	..	..	..
Hungary	2015	471	176	52	61	4	178
	2016	479	170	59	64	4	182
	2017	473	160	62	63	5	183
	2018	465	150	65	65	5	179
Iceland	2015	285	0	..	0	50	235
	2016	289	0	..	0	49	240
	2017	299	1	..	0	51	248
	2018	336	1	..	0	50	285

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
537	250	8	4	6	778	108
538	241	9	3	1	757	106
558	246	10	3	9	782	110
486	196	11	3	1	780	111
301	128	5	0	2	350	83
314	140	5	0	1	353	84
344	146	6	0	3	364	87
337	145	8	1	3	354	85
914	347	13	..	4	1,758	166
904	326	13	..	-34	1,742	164
999	316	15	..	8	1,818	171
962	288	17	..	-2	1,813	170
790	691	37	32	20	676	119
770	661	40	28	-26	695	122
674	586	42	22	-29	703	123
683	495	44	25	-16	712	124
109	84	2	12	15	230	174
110	88	2	12	-24	240	183
108	96	3	13	-1	240	182
118	115	3	12	2	263	198
*10	..	0	1	..	*9	*189
*10	..	0	1	..	*9	*191
*11	..	0	2	..	*10	*214
*12	..	0	2	..	*11	*219
979	318	27	12	4	1,350	246
1,063	404	27	12	-56	1,412	257
1,033	398	29	15	-47	1,392	253
1,053	391	33	14	11	1,415	256
6,444	1,405	243	69	-27	10,531	158
6,384	1,273	240	62	-75	10,344	155
6,602	1,351	241	70	-8	10,323	154
6,417	1,400	249	78	41	10,271	153
10,886	2,540	346	101	-16	12,931	158
10,813	2,193	372	118	-29	12,968	158
11,237	2,548	411	96	-36	13,012	157
9,804	1,406	424	71	-76	12,645	152
163	..	0	154	..	9	264
166	..	0	156	..	9	277
184	..	0	174	..	10	286
181	..	0	170	..	11	314
1,461	697	35	75	43	965	91
1,549	780	38	73	-4	945	89
1,608	823	42	90	-4	958	91
1,632	869	47	92	-10	935	89
1	..	..	..	..	1	13
1	..	..	..	..	1	16
1	..	..	..	..	1	17
1	..	..	..	..	1	18
759	190	8	..	-21	1,053	108
814	213	8	..	-1	1,072	110
1,014	313	10	..	49	1,115	115
1,032	381	12	..	-14	1,118	115
40	..	9	2	1	313	949
45	..	13	2	0	318	958
47	..	16	3	0	328	980
54	..	18	3	2	366	1,087

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Country or area	Year	Primary energy production					
		Total	Solids	Liquids	Gases	Electricity	Heat
Ireland	2015	81	46	1	7	27	1
	2016	176	43	1	106	25	1
	2017	204	51	1	122	29	1
	2018	208	56	1	117	34	1
Isle of Man	2015	0	0	..	..	0	..
	2016	0	0	..	..	0	..
	2017	0	0	..	..	0	..
	2018	*1	*1	..	..	0	..
Italy	2015	1,509	393	269	311	300	237
	2016	1,401	389	197	277	296	242
	2017	1,421	411	220	269	282	239
	2018	1,452	379	250	266	321	236
Jersey	2015	*1	*1	..	..	..	..
	2016	*1	*1	..	..	..	..
	2017	*1	*1	..	..	..	..
	2018	*1	*1	..	..	..	..
Kosovo	2015	76	75	..	..	1	0
	2016	84	83	..	..	1	0
	2017	75	74	..	..	1	0
	2018	76	75	..	..	1	0
Latvia	2015	98	84	3	4	7	..
	2016	102	87	2	4	10	..
	2017	108	86	2	4	16	..
	2018	119	103	3	4	9	..
Liechtenstein	2015	*1	*1	..	0	0	0
	2016	*1	*1	..	0	0	0
	2017	*1	*1	..	0	0	0
	2018	*1	*1	..	0	0	0
Lithuania	2015	77	54	8	1	4	10
	2016	78	54	7	1	6	10
	2017	86	58	7	1	7	12
	2018	82	55	8	2	6	11
Luxembourg	2015	6	4	..	1	1	0
	2016	7	5	..	1	1	0
	2017	8	5	..	1	2	0
	2018	9	6	..	1	2	0
Malta	2015	1	..	0	0	0	0
	2016	1	..	0	0	0	0
	2017	1	..	..	0	1	0
	2018	1	..	..	0	1	0
Montenegro	2015	30	25	..	..	5	..
	2016	28	21	..	..	7	..
	2017	27	23	..	..	4	..
	2018	31	23	..	..	8	..
Netherlands	2015	2,004	114	145	1,665	32	48
	2016	1,926	116	120	1,608	36	47
	2017	1,743	117	133	1,401	46	47
	2018	1,524	116	131	1,176	52	48
North Macedonia	2015	58	50	0	..	7	0
	2016	51	43	0	..	7	0
	2017	53	48	0	..	4	0
	2018	51	44	0	..	7	0
Norway	2015	8,689	86	3,789	4,307	503	4
	2016	8,793	77	3,905	4,286	522	3
	2017	9,035	60	3,896	4,553	523	4
	2018	8,664	61	3,628	4,458	514	4

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
611	78	35	7	14	557	120
510	74	36	7	-16	585	125
503	85	43	6	-2	574	121
502	77	46	7	3	577	120
4	0	..	..	..	4	49
5	0	..	..	..	5	55
4	0	..	..	..	4	54
4	0	..	..	..	4	53
6,309	1,233	136	80	-5	6,374	105
6,390	1,311	142	93	-61	6,307	104
6,615	1,407	147	97	-24	6,408	106
6,407	1,308	165	115	-18	6,289	104
2	..	..	..	..	3	29
2	..	..	..	..	3	29
2	..	..	..	..	3	29
2	..	..	..	..	3	28
32	3	0	..	-1	106	59
31	4	0	..	-2	113	64
36	3	0	..	0	108	60
35	3	0	..	0	109	60
190	90	5	11	3	179	90
183	89	5	13	-1	179	91
176	87	6	11	-4	185	95
186	95	7	2	7	195	101
2	..	..	..	..	3	88
2	..	..	..	..	3	88
2	..	..	..	..	3	89
2	..	..	..	..	3	90
601	374	3	3	4	293	100
620	387	4	7	0	299	104
619	385	5	7	-5	313	110
599	354	5	8	-1	315	112
178	8	20	..	-1	158	278
178	7	22	..	0	156	270
183	7	25	..	0	159	269
188	6	26	..	0	165	273
117	22	5	65	-2	27	63
117	12	5	74	2	25	58
133	6	6	88	5	29	65
141	15	7	93	-1	28	65
17	4	1	..	0	42	67
20	5	1	..	1	41	65
23	5	1	..	0	43	68
21	7	1	..	-1	45	72
8,350	6,587	161	494	126	2,987	176
8,483	6,784	166	491	-80	3,049	180
8,552	6,612	170	482	-56	3,087	181
8,654	6,467	172	463	43	3,033	178
66	8	..	..	0	116	56
71	5	..	..	1	116	56
70	5	..	..	-2	119	57
69	6	..	..	2	112	54
339	7,774	26	6	8	1,215	234
331	7,914	22	5	12	1,170	223
409	8,225	23	8	-44	1,232	233
464	7,887	24	9	35	1,173	220

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Country or area	Year	Primary energy production					
		Total	Solids	Liquids	Gases	Electricity	Heat
Poland	2015	2,843	2,556	73	164	46	4
	2016	2,791	2,493	81	160	53	4
	2017	2,692	2,386	80	159	63	4
	2018	2,613	2,317	81	157	54	4
Portugal	2015	222	118	13	3	76	11
	2016	251	121	12	3	105	10
	2017	218	121	13	4	69	12
	2018	246	123	13	3	94	12
Republic of Moldova	2015	28	27	0	0	0	..
	2016	30	29	0	0	0	..
	2017	32	31	0	0	0	..
	2018	33	33	0	0	0	0
Romania	2015	1,116	351	177	369	92	127
	2016	1,045	331	170	327	95	123
	2017	1,071	340	162	358	86	126
	2018	1,053	320	160	356	93	124
Russian Federation	2015	56,024	8,702	22,621	21,953	607	2,142
	2016	57,679	9,098	23,219	22,542	667	2,155
	2017	60,017	9,627	23,173	24,323	669	2,224
	2018	62,422	10,952	23,560	24,980	692	2,239
Serbia	2015	449	348	45	19	36	0
	2016	446	348	41	18	39	0
	2017	438	348	40	17	33	0
	2018	418	324	39	16	39	0
Slovakia	2015	265	67	7	9	16	166
	2016	266	70	8	10	18	162
	2017	265	63	7	11	17	166
	2018	256	61	8	9	15	163
Slovenia	2015	142	63	0	1	15	63
	2016	144	62	..	1	17	64
	2017	153	66	..	1	15	70
	2018	148	63	0	2	18	65
Spain	2015	1,367	294	61	13	309	690
	2016	1,391	274	63	12	336	707
	2017	1,368	298	79	12	275	704
	2018	1,386	289	78	14	335	669
Sweden	2015	1,400	443	11	7	330	609
	2016	1,439	460	11	7	280	682
	2017	1,491	466	9	7	299	710
	2018	1,502	452	16	7	285	741
Switzerland	2015	495	95	0	5	142	253
	2016	467	100	0	5	130	232
	2017	460	101	0	5	129	224
	2018	518	100	0	5	133	279
Ukraine	2015	2,552	818	111	621	25	976
	2016	2,773	1,099	98	637	33	906
	2017	2,431	695	95	649	38	953
	2018	2,573	795	100	692	46	940
United Kingdom	2015	4,934	432	1,982	1,564	195	762
	2016	5,016	346	2,086	1,616	191	777
	2017	5,023	336	2,060	1,624	241	762
	2018	5,119	326	2,241	1,576	271	705
Oceania	2015	17,058	12,888	909	2,726	212	322
	2016	17,215	12,594	868	3,200	230	322
	2017	17,986	12,661	759	4,003	239	324
	2018	18,215	12,424	681	4,526	258	327

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
2,086	857	28	8	32	4,004	105
2,178	853	29	8	-111	4,190	110
2,431	711	37	11	-22	4,386	116
2,658	656	43	11	108	4,453	117
1,101	326	45	27	7	918	89
1,069	334	49	32	-6	910	88
1,168	337	55	33	10	951	92
1,058	271	59	34	20	919	90
83	1	1	..	0	108	27
85	1	1	..	0	113	28
90	1	2	..	0	118	29
94	1	2	..	0	124	31
483	255	9	2	-7	1,341	67
559	261	11	1	-5	1,336	67
582	249	13	1	-11	1,400	71
604	256	5	1	-16	1,411	72
1,139	27,197	*223	726	75	28,943	200
*995	28,124	*214	692	48	29,596	204
*1,130	28,804	238	729	669	30,706	211
*1,121	29,899	246	*497	-325	33,226	228
229	61	3	1	1	612	86
247	60	5	1	-6	633	89
278	60	6	1	3	647	92
285	65	6	1	-5	635	91
648	241	2	..	-4	675	124
635	223	2	..	-9	686	126
688	222	2	..	13	717	132
645	191	2	..	-8	716	131
243	106	1	3	0	275	133
261	122	1	5	0	278	134
275	124	1	6	3	293	141
278	125	1	9	-1	291	140
5,238	1,262	166	313	-40	4,904	105
5,228	1,292	176	315	-104	4,941	106
5,615	1,371	192	280	-68	5,209	112
5,544	1,321	200	293	-67	5,183	111
1,385	771	32	76	70	1,836	188
1,533	822	35	84	53	1,978	201
1,472	886	38	98	-87	2,027	205
1,488	849	40	77	-28	2,052	206
717	144	70	0	-15	1,013	121
722	129	73	0	3	985	117
728	127	75	0	-6	991	117
675	136	79	0	-19	997	116
1,327	54	5	..	66	3,753	84
1,246	54	*5	..	-19	3,978	89
1,481	74	*5	..	93	3,739	84
1,421	56	..	..	-29	3,968	90
6,033	2,977	465	106	-172	7,591	115
5,813	2,964	466	112	-188	7,476	113
5,922	3,106	500	95	-126	7,370	110
5,998	3,200	504	103	6	7,304	109
2,545	12,719	204	39	66	6,574	165
2,630	13,191	224	38	-178	6,569	162
2,678	13,628	245	38	122	6,630	162
2,840	14,158	260	40	-48	6,645	160

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Country or area	Year	Primary energy production					
		Total	Solids	Liquids	Gases	Electricity	Heat
Australia	2015	16,033	12,691	768	2,452	107	15
	2016	16,201	12,412	742	2,912	120	15
	2017	16,979	12,475	645	3,711	132	16
	2018	17,231	12,233	581	4,253	147	17
Cook Islands	2015	0	..	..	..	0	..
	2016	0	..	..	..	0	..
	2017	0	..	..	..	0	..
	2018	0	..	..	..	0	..
Fiji	2015	7	6	..	..	1	..
	2016	6	4	..	..	2	..
	2017	7	5	..	..	2	..
	2018	*6	*4	..	..	2	..
French Polynesia	2015	1	0	..	..	1	..
	2016	1	0	..	..	1	..
	2017	1	0	..	..	1	..
	2018	1	0	..	..	1	..
Guam	2015	0	..	..	..	0	..
	2016	0	..	..	..	0	..
	2017	0	..	..	..	0	..
	2018	0	..	..	..	0	..
Kiribati	2015	*1	*1	..	..	0	..
	2016	*1	*1	..	..	0	..
	2017	*1	*1	..	..	0	..
	2018	*1	*1	..	..	0	..
Marshall Islands	2015	0	0	..	..	0	..
	2016	0	0	..	..	0	..
	2017	0	0	..	..	0	..
	2018	0	0	..	..	0	..
Micronesia (Fed. States of)	2015	0	0	..	..	0	..
	2016	0	0	..	..	0	..
	2017	0	0	..	..	0	..
	2018	0	0	..	..	0	..
Nauru	2015	0	..	..	..	0	..
	2016	0	..	..	..	0	..
	2017	0	..	..	..	0	..
	2018	0	..	..	..	0	..
New Caledonia	2015	2	0	0	..	1	0
	2016	1	0	0	..	1	0
	2017	2	0	0	..	2	0
	2018	2	0	0	..	1	0
New Zealand	2015	780	129	91	172	97	292
	2016	766	115	77	180	102	292
	2017	758	118	70	178	98	293
	2018	735	124	55	158	102	295
Niue	2015	0	0	..	..	0	0
	2016	0	0	..	..	0	0
	2017	0	0	..	..	0	0
	2018	0	0	..	..	0	0
Palau	2015	..	..	..	..	..	..
	2016	0	..	..	..	0	..
	2017	0	..	..	..	0	..
	2018	0	..	..	..	0	..
Papua New Guinea	2015	228	57	51	102	4	15
	2016	233	57	49	108	4	15
	2017	233	57	44	113	4	15
	2018	*234	57	*44	*115	3	*15

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
2,002	12,444	161	22	78	5,330	223
2,041	12,904	170	22	-174	5,320	219
2,091	13,353	186	22	135	5,374	219
2,230	13,892	198	23	-45	5,393	217
*1	..	0	0	..	*1	*54
*1	..	0	0	..	*1	*56
*2	..	0	0	..	*1	*61
*2	..	0	0	..	*1	*62
36	13	*1	*2	*2	25	29
33	15	*1	*2	*-2	22	26
35	13	*1	*2	*-1	25	29
*36	*13	*1	*3	*1	*25	*28
12	..	0	1	0	12	43
12	..	0	1	0	11	42
12	..	0	1	0	12	42
12	..	0	1	0	12	43
..	..	..	..	..	0	0
..	..	..	..	..	0	1
..	..	..	..	..	0	1
..	..	..	..	..	0	1
1	..	0	..	..	1	12
1	..	0	..	..	1	12
1	..	0	..	..	2	14
*1	..	0	..	..	*2	*14
*2	..	0	..	..	*2	*38
*2	..	0	..	..	*2	*38
*2	..	0	..	..	*2	*39
*2	..	0	..	..	*2	*39
3	..	0	0	..	2	19
*3	..	0	0	..	*2	*20
*3	..	0	0	..	*2	*19
*3	..	0	0	..	*2	*19
*1	..	0	0	0	*1	*73
*1	..	0	0	0	*1	*70
*1	..	0	0	..	*1	*73
*1	..	0	0	..	*1	*70
62	..	1	0	1	61	226
68	..	1	0	0	67	246
66	..	1	0	-1	68	245
75	..	2	0	*2	73	262
328	124	35	13	-16	952	206
353	110	46	12	1	950	204
347	103	51	12	-16	955	203
359	92	54	12	-9	945	199
0	..	0	..	..	0	64
0	..	0	..	..	0	*62
0	..	0	..	..	0	*60
0	..	0	..	..	0	*64
*3	..	0	..	..	*3	*160
*3	..	0	..	..	*3	*164
*4	..	*1	..	..	*3	*168
*4	..	*1	..	..	*3	*166
80	138	*3	0	1	166	21
98	161	*3	0	-3	169	20
100	160	3	0	4	166	20
*100	*161	*3	0	*4	*167	*19

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Country or area	Year	Primary energy production					
		Total	Solids	Liquids	Gases	Electricity	Heat
Samoa	2015	2	1	..	0	0	0
	2016	2	1	..	0	0	0
	2017	*2	*1	..	0	0	0
	2018	*2	*1	..	0	0	0
Solomon Islands	2015	*3	*3	..	..	0	..
	2016	*3	*3	..	..	0	..
	2017	*3	*3	..	..	0	..
	2018	*3	*3	..	..	0	..
Tonga	2015	0	0	..	..	0	..
	2016	0	0	..	..	0	..
	2017	0	0	..	..	0	..
	2018	0	0	..	..	0	..
Tuvalu	2015	0	..	..	..	0	..
	2016	0	..	..	..	0	..
	2017	0	..	..	..	0	..
	2018	0	..	..	..	0	..
Vanuatu	2015	1	1	0	..	0	..
	2016	1	1	0	..	0	..
	2017	1	1	0	..	0	..
	2018	1	1	0	..	0	..
Wallis and Futuna Is.	2015	0	..	..	..	0	..
	2016	0	..	..	..	0	..
	2017	0	..	..	..	0	..
	2018	0	..	..	..	0	..

Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
4	0	1	..	0	5	26
4	0	1	..	0	5	26
4	0	*1	..	0	5	27
4	0	*1	..	0	5	27
5	0	0	0	..	8	13
*5	0	0	0	..	*7	*12
*5	0	0	0	..	*7	*12
*5	0	0	0	..	*8	*12
2	..	0	0	0	2	17
2	..	0	0	0	2	18
2	..	0	0	0	2	21
2	..	0	0	..	2	19
0	..	0	..	..	0	*10
0	..	0	..	..	0	*10
0	..	0	..	..	0	*11
0	..	0	..	..	0	*12
2	0	0	0	0	3	11
3	0	0	0	0	3	11
3	0	0	0	..	3	10
3	0	0	0	..	3	12
0	..	0	..	..	0	28
0	..	0	..	..	0	29
0	..	0	..	..	0	29
0	..	0	..	..	0	31

Table 3

Total final consumption and its components

Petajoules and Gigajoules per capita

Table Notes

Total final consumption refers to all fuel and energy that is delivered to users for both their energy and non-energy uses which do not involve a transformation process.

Non-energy use consists of the use of energy products as raw materials for the manufacture of products outside the scope of energy statistics, as well as for direct uses that do not involve using the products as a source of energy, nor as a transformation input. Examples are lubrication, sealing, preservation, road surfacing, and use as a solvent.

Industry refers to the use of energy products for energy purposes by economic units belonging to manufacturing, construction and non-fuel mining industries, namely the following: Iron and steel, Chemical and petrochemical, Non-ferrous metals, Non-metallic minerals; Transport equipment; Machinery; Mining and quarrying; Food and Tobacco; Paper, pulp and print; Wood and wood products (other than pulp and paper); Textile and leather; Construction; and Industries not elsewhere specified. It excludes the use of energy products for transport.

Transport refers to the consumption of fuels and electricity by any economic entity to transport goods or persons between points of departure and destination within the national territory. As such, it excludes international aviation and shipping, which are included under international marine and aviation bunkers respectively.

Other refers to energy consumed by consumers not classified under Industry. It includes Households, Commerce and public services, Agriculture, Forestry, Fishing, and Not elsewhere specified.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description/ classification, and xvi to xvii for the descriptions of relevant flows.

Figure 9: World total final consumption by component, 2018

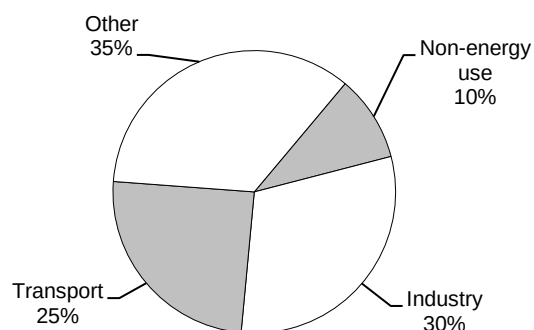


Figure 10: Total final consumption by region, 1990-2018

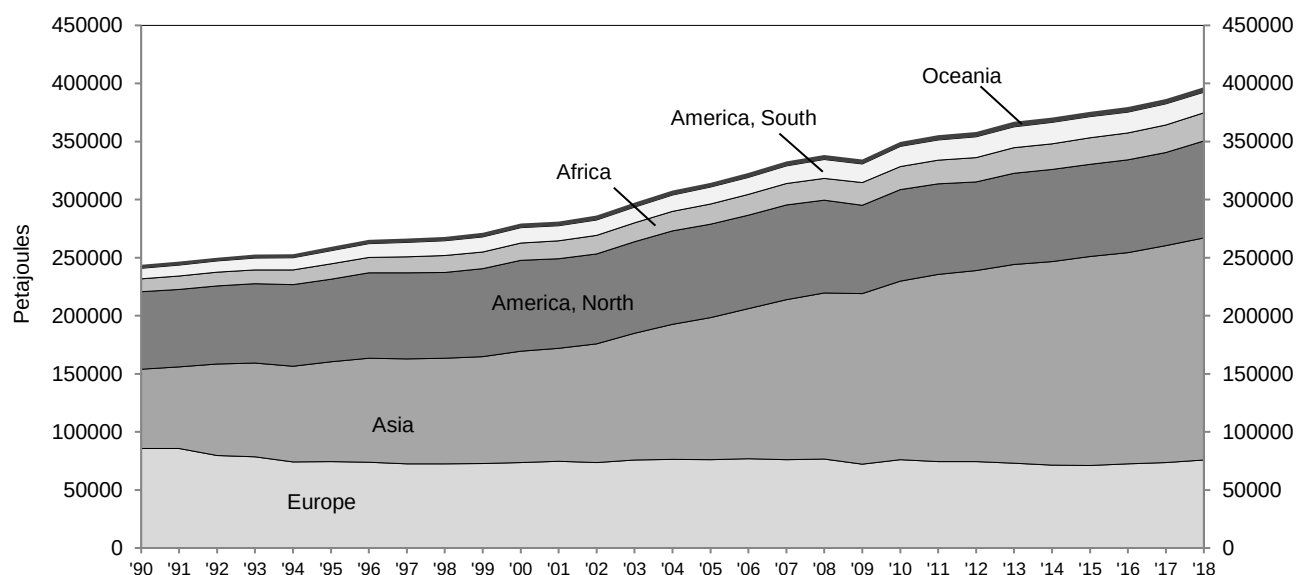


Table 3

Total final consumption and its components

Petajoules and gigajoules per capita

Country or area	Year	Total final consumption	Non-energy use	Energy use			TFC per capita
				Industry	Transport	Other	
World	2015	375,549	35,637	116,594	94,676	128,642	51
	2016	379,576	36,554	114,872	96,532	131,618	51
	2017	386,652	37,558	116,662	96,243	136,190	51
	2018	396,720	39,083	121,103	97,948	138,585	52
Africa	2015	22,848	800	3,793	4,373	13,882	19
	2016	23,318	785	3,863	4,317	14,352	19
	2017	23,838	882	3,792	4,519	14,645	19
	2018	24,203	818	3,837	4,880	14,668	19
Algeria	2015	1,561	155	242	647	517	39
	2016	1,571	165	249	632	525	39
	2017	1,591	133	270	626	563	38
	2018	1,776	209	284	634	649	42
Angola	2015	*437	*7	54	*101	*276	*16
	2016	*423	4	57	*89	*273	*15
	2017	*397	4	41	*74	*277	*13
	2018	*379	3	42	*64	*271	*12
Benin	2015	*148	..	6	63	*79	*14
	2016	169	..	7	81	*81	16
	2017	*179	..	6	84	*90	*16
	2018	183	..	3	94	*86	16
Botswana	2015	57	1	15	*28	14	27
	2016	62	1	14	33	14	29
	2017	64	1	13	35	14	29
	2018	66	1	13	37	15	29
Burkina Faso	2015	*150	0	*14	*22	*114	*8
	2016	*153	0	*13	24	*116	*8
	2017	*161	0	*15	28	*117	*8
	2018	*168	0	*17	32	*119	*9
Burundi	2015	*55	*1	*1	4	*49	*5
	2016	*56	*1	*1	*5	*49	*5
	2017	*56	0	*1	*6	*49	*5
	2018	*58	0	*1	*8	*49	*5
Cabo Verde	2015	*6	0	0	*3	*3	*12
	2016	*7	0	0	*4	*3	*13
	2017	*7	0	0	*4	*3	*13
	2018	*7	0	0	*4	*3	*13
Cameroon	2015	*302	2	15	43	*241	*13
	2016	*307	3	14	44	*246	*13
	2017	*311	3	15	41	*253	*13
	2018	*318	3	16	39	*259	*13
Central African Rep.	2015	*16	0	0	*2	*13	*4
	2016	*16	0	0	*3	*13	*4
	2017	*16	0	0	*3	*13	*4
	2018	*16	0	0	*3	*13	*4
Chad	2015	*70	0	*1	*2	*66	*5
	2016	*70	0	*1	*2	*67	*5
	2017	*71	0	*1	*2	*68	*5
	2018	*72	0	*1	*2	*69	*5
Comoros	2015	*6	..	0	*2	*4	*7
	2016	*6	..	0	*2	*4	*8
	2017	7	..	0	*2	4	8
	2018	*7	..	0	*2	*4	*8

Table 3

Total final consumption and its components

Petajoules and gigajoules per capita

Country or area	Year	Total final consumption	Non-energy use	Energy use			TFC per capita
				Industry	Transport	Other	
Congo	2015	80	1	2	23	54	17
	2016	79	1	1	20	57	16
	2017	79	1	2	18	58	16
	2018	82	1	2	18	61	16
Côte d'Ivoire	2015	282	1	29	43	207	12
	2016	292	3	34	49	206	12
	2017	309	3	30	55	220	13
	2018	300	4	22	55	219	12
Dem. Rep. of the Congo	2015	*898	0	143	37	*718	*12
	2016	*916	0	147	26	*742	*12
	2017	*1,053	0	167	29	*856	*13
	2018	739	0	27	29	683	9
Djibouti	2015	*7	0	0	*2	*5	*8
	2016	*7	0	0	*2	*5	*8
	2017	*8	0	0	*2	*5	*8
	2018	*8	0	0	*2	*5	*8
Egypt	2015	2,566	228	754	519	1,065	28
	2016	2,879	284	838	535	1,223	30
	2017	2,811	282	750	538	1,242	29
	2018	2,730	113	852	527	1,238	28
Equatorial Guinea	2015	*98	0	*81	*8	*8	*84
	2016	*113	0	*96	*8	*8	*93
	2017	*126	0	*109	9	*8	*100
	2018	*90	0	*75	8	*7	*69
Eritrea	2015	21	0	1	3	17	6
	2016	21	0	1	3	18	6
	2017	21	0	1	3	17	6
	2018	21	0	1	3	17	6
Eswatini	2015	*36	0	*16	*9	*11	*32
	2016	*36	0	*17	6	*13	*33
	2017	39	0	15	9	15	35
	2018	40	0	16	8	16	35
Ethiopia	2015	*1,347	4	58	65	*1,220	*13
	2016	*1,388	4	67	78	*1,239	*13
	2017	*1,420	4	68	88	*1,261	*13
	2018	1,440	4	72	93	1,271	13
Gabon	2015	*91	0	28	11	*51	*47
	2016	*93	1	29	12	*52	*46
	2017	*79	1	*21	*8	*50	*38
	2018	*83	1	*24	*8	*51	*39
Gambia	2015	*10	..	*2	*1	*7	*5
	2016	*10	..	*2	*1	*7	*5
	2017	*10	..	*2	*1	*7	*4
	2018	*10	..	*2	*1	*7	*4
Ghana	2015	275	*3	32	*119	120	10
	2016	271	*3	34	*110	125	10
	2017	270	*3	30	106	131	9
	2018	282	*4	38	*111	129	9
Guinea	2015	*140	*2	*15	*19	*104	*12
	2016	*142	*1	*16	*19	*105	*12
	2017	*150	*2	*18	*23	*106	*12
	2018	*155	*2	*26	*20	*107	*12

Table 3

Total final consumption and its components

Petajoules and gigajoules per capita

Country or area	Year	Total final consumption	Non-energy use	Energy use			TFC per capita
				Industry	Transport	Other	
Guinea-Bissau	2015	*28	*1	0	*1	*26	*16
	2016	*29	*1	0	*1	*26	*16
	2017	*29	*1	0	*1	*26	*16
	2018	*29	*1	0	*2	*27	*16
Kenya	2015	617	2	58	126	431	13
	2016	*574	2	60	141	*371	*12
	2017	587	2	62	138	385	12
	2018	*553	3	75	128	*348	*11
Lesotho	2015	*45	0	*18	6	*21	*22
	2016	*44	0	*17	7	*19	*21
	2017	*45	0	*20	7	*19	*22
	2018	*46	0	*21	7	*18	*22
Liberia	2015	*82	0	*1	11	*70	*18
	2016	*86	0	*2	*12	*73	*19
	2017	*87	0	*1	*10	*75	*18
	2018	*88	0	*1	*9	*77	*18
Libya	2015	465	106	70	213	76	72
	2016	500	103	68	255	74	77
	2017	527	130	80	241	76	80
	2018	557	147	86	235	88	83
Madagascar	2015	*183	*2	*20	*17	*144	*8
	2016	221	*3	*21	17	180	9
	2017	236	*3	*25	18	190	9
	2018	*244	*3	*26	*19	*196	*9
Malawi	2015	*62	0	*11	*9	*42	*4
	2016	*65	0	*11	*11	*43	*4
	2017	*65	0	*10	*13	*42	*4
	2018	*69	0	*10	*15	*43	*4
Mali	2015	*134	..	*7	*17	*110	*8
	2016	*142	..	*7	*18	*117	*8
	2017	*144	..	*8	*19	*118	*8
	2018	*145	..	*8	*20	*117	*8
Mauritania	2015	*49	*1	*11	*17	*21	*12
	2016	*45	*1	*8	*16	*21	*11
	2017	*58	*1	15	*19	*23	*13
	2018	*61	*2	15	*22	*22	*14
Mauritius	2015	38	1	8	19	10	30
	2016	40	1	8	21	10	32
	2017	41	1	8	22	10	32
	2018	42	1	8	23	10	33
Morocco	2015	613	22	131	217	243	17
	2016	653	21	125	232	275	18
	2017	683	21	140	240	282	19
	2018	691	19	140	248	284	19
Mozambique	2015	*324	7	53	34	*230	*12
	2016	238	7	52	55	123	9
	2017	239	6	64	57	112	8
	2018	212	6	57	49	100	7
Namibia	2015	72	1	7	28	35	31
	2016	75	1	7	30	37	32
	2017	75	1	7	28	39	31
	2018	75	1	8	28	38	31

Table 3

Total final consumption and its components

Petajoules and gigajoules per capita

Country or area	Year	Total final consumption	Non-energy use	Energy use			TFC per capita
				Industry	Transport	Other	
Niger	2015	82	0	3	13	66	4
	2016	*82	0	4	11	*67	*4
	2017	*72	0	*5	11	*56	*3
	2018	*82	0	*3	*10	*69	*4
Nigeria	2015	*5,298	64	*310	630	*4,293	*29
	2016	*5,413	60	*294	722	*4,338	*29
	2017	*5,531	57	*300	722	*4,452	*29
	2018	*5,785	64	*315	941	*4,466	*30
Rwanda	2015	*80	0	*7	*8	*65	*7
	2016	*81	0	*7	*8	*65	*7
	2017	*80	0	*7	*7	*66	*7
	2018	*82	0	*7	*8	*67	*7
Sao Tome and Principe	2015	*2	0	0	0	*1	*10
	2016	*2	0	0	0	*1	*10
	2017	*2	0	0	0	*1	*10
	2018	*2	0	0	0	*1	*10
Senegal	2015	121	..	23	37	61	8
	2016	126	..	25	40	61	8
	2017	117	..	*20	43	53	8
	2018	123	..	*24	36	63	8
Seychelles	2015	*4	0	*1	*2	*2	*45
	2016	*5	0	*1	*2	*2	*52
	2017	*5	0	*1	*2	*2	*52
	2018	*5	0	*1	*3	2	*55
Sierra Leone	2015	*55	0	*2	*6	*46	*8
	2016	*55	0	*2	*6	*47	*8
	2017	*55	0	*2	*6	*47	*7
	2018	*54	0	*2	*6	*46	*7
Somalia	2015	*105	..	*2	2	*101	*8
	2016	*111	..	*2	2	*107	*8
	2017	*113	..	*2	*2	*110	*8
	2018	*116	..	*2	*2	*112	*8
South Africa	2015	2,764	158	1,078	762	765	50
	2016	2,620	86	1,050	495	989	47
	2017	2,697	191	964	678	864	47
	2018	2,913	195	997	811	910	50
South Sudan	2015	24	..	0	14	10	2
	2016	22	..	0	13	9	2
	2017	19	..	1	10	8	2
	2018	17	..	1	8	8	2
St. Helena and Depend.	2015	0	..	..	0	0	*18
	2016	0	..	..	0	0	*28
	2017	0	..	..	0	0	*17
	2018	0	..	..	0	0	*24
Sudan	2015	*385	10	*77	*115	*183	*10
	2016	*393	11	*69	*130	*183	*10
	2017	*409	*11	*70	*133	*195	*10
	2018	*408	*11	*72	*135	*190	*10
Togo	2015	77	0	2	10	64	10
	2016	82	0	5	9	68	11
	2017	80	..	4	12	64	10
	2018	85	..	4	14	67	11

Table 3

Total final consumption and its components

Petajoules and gigajoules per capita

Country or area	Year	Total final consumption	Non-energy use	Energy use			TFC per capita
				Industry	Transport	Other	
Tunisia	2015	331	11	92	98	130	30
	2016	335	12	89	100	134	30
	2017	351	13	91	108	140	31
	2018	353	12	91	107	142	31
Uganda	2015	664	1	71	38	554	17
	2016	683	*1	74	41	568	17
	2017	706	0	76	43	586	17
	2018	738	*1	89	47	602	17
United Rep. of Tanzania	2015	713	2	76	79	556	14
	2016	716	2	74	74	567	13
	2017	734	2	80	74	577	13
	2018	758	2	83	77	595	13
Zambia	2015	375	3	114	30	228	24
	2016	387	3	115	30	239	24
	2017	400	3	121	29	247	24
	2018	406	3	123	29	251	23
Zimbabwe	2015	*399	1	27	37	*334	*29
	2016	*405	1	28	31	*345	*29
	2017	*415	1	31	32	*352	*29
	2018	*434	1	33	41	*359	*30
America, North	2015	79,394	7,140	14,924	31,539	25,793	140
	2016	79,716	7,233	14,835	31,971	25,678	139
	2017	80,047	7,489	14,754	32,160	25,644	139
	2018	83,519	7,671	15,390	32,883	27,575	143
Anguilla	2015	*2	..	..	*1	*1	*113
	2016	*2	..	..	*1	*1	*111
	2017	*1	..	..	*1	*1	*100
	2018	*2	..	..	*1	*1	*102
Antigua and Barbuda	2015	*4	0	0	*3	*1	*42
	2016	*4	0	0	*3	*1	*43
	2017	*4	0	0	*3	*1	*43
	2018	*4	0	0	*3	*1	*45
Aruba	2015	*7	0	..	*3	*3	*63
	2016	*7	0	..	*3	*3	*63
	2017	*7	0	..	*3	*3	*65
	2018	*7	0	..	*3	*3	*65
Bahamas	2015	*20	0	8	*5	*7	*55
	2016	*19	0	7	*4	*7	*49
	2017	*20	0	*7	*6	*7	*52
	2018	*28	0	*8	*10	*10	*72
Barbados	2015	11	..	1	6	*4	40
	2016	12	..	1	6	5	41
	2017	12	..	2	6	4	42
	2018	12	..	2	6	4	42
Belize	2015	14	0	3	7	4	38
	2016	*14	0	3	*7	4	*37
	2017	15	0	4	7	4	39
	2018	14	0	3	6	5	37
Bermuda	2015	5	0	0	*2	3	79
	2016	*6	0	0	*2	*5	*99
	2017	5	0	0	*2	3	74
	2018	*6	0	0	*2	*4	*94

Table 3

Total final consumption and its components

Petajoules and gigajoules per capita

Country or area	Year	Total final consumption	Non-energy use	Energy use			TFC per capita
				Industry	Transport	Other	
Bonaire, St Eustatius, Saba	2015	*4	*1	*1	*2	*1	*180
	2016	*5	*1	*1	*2	*1	*181
	2017	*5	*1	*1	*2	*1	*181
	2018	*5	*1	*1	*2	*1	*182
British Virgin Islands	2015	*2	..	0	*1	*1	*64
	2016	*2	..	0	*1	*1	*64
	2017	*1	..	0	*1	*1	*45
	2018	*1	..	0	*1	*1	*41
Canada	2015	8,279	939	1,891	2,693	2,756	230
	2016	8,174	976	1,822	2,707	2,669	225
	2017	8,332	872	1,890	2,790	2,781	227
	2018	8,646	908	1,922	2,890	2,926	233
Cayman Islands	2015	5	0	1	2	1	78
	2016	5	0	1	2	1	78
	2017	5	0	1	2	1	80
	2018	5	0	1	3	1	85
Costa Rica	2015	157	3	39	74	41	32
	2016	164	3	40	79	42	34
	2017	168	5	41	81	42	34
	2018	167	5	40	82	40	33
Cuba	2015	234	5	123	21	85	21
	2016	244	5	140	19	80	22
	2017	*243	4	*135	19	84	*21
	2018	240	5	137	16	82	21
Curaçao	2015	29	4	6	15	4	181
	2016	29	4	6	15	4	180
	2017	29	4	6	15	4	179
	2018	29	4	6	15	4	177
Dominica	2015	*2	..	0	*1	*1	*23
	2016	*2	..	0	*1	*1	*24
	2017	*2	..	0	*1	*1	*22
	2018	*2	..	0	*1	*1	*24
Dominican Republic	2015	227	13	54	89	71	22
	2016	249	19	61	96	74	24
	2017	247	13	65	95	73	23
	2018	254	14	61	103	75	24
El Salvador	2015	103	1	19	46	37	16
	2016	100	1	20	48	32	16
	2017	101	1	23	47	30	16
	2018	107	1	25	48	33	17
Greenland	2015	8	0	0	2	6	137
	2016	8	0	1	2	6	141
	2017	8	0	1	2	6	144
	2018	*8	0	*1	*2	*6	*145
Grenada	2015	3	..	0	1	1	27
	2016	3	..	0	1	1	26
	2017	3	..	0	1	2	27
	2018	3	..	0	1	2	30
Guatemala	2015	374	1	37	97	239	23
	2016	398	1	38	105	255	24
	2017	*433	1	43	115	*273	*26
	2018	*441	3	39	119	*280	*26

Table 3

Total final consumption and its components

Petajoules and gigajoules per capita

Country or area	Year	Total final consumption	Non-energy use	Energy use			TFC per capita
				Industry	Transport	Other	
Haiti	2015	136	1	12	19	104	13
	2016	137	1	12	20	105	13
	2017	139	0	12	20	106	13
	2018	141	1	12	20	108	13
Honduras	2015	*196	0	35	55	*106	*22
	2016	*195	0	38	55	*102	*21
	2017	171	0	40	54	*77	18
	2018	*192	1	33	57	*101	*20
Jamaica	2015	80	3	33	29	15	28
	2016	83	3	33	31	16	29
	2017	77	2	28	29	18	26
	2018	97	1	45	35	16	33
Mexico	2015	5,005	214	1,487	2,128	1,175	41
	2016	5,087	217	1,476	2,205	1,189	41
	2017	5,110	211	1,570	2,142	1,188	41
	2018	5,206	192	1,570	2,217	1,227	41
Montserrat	2015	*1	0	0	0	0	*120
	2016	0	0	0	0	0	*58
	2017	0	0	0	0	0	*53
	2018	0	0	0	0	0	*55
Nicaragua	2015	*104	2	15	30	*58	*17
	2016	*109	2	15	31	*61	*17
	2017	*108	2	15	33	*59	*17
	2018	*109	1	15	31	*62	*17
Panama	2015	144	..	38	63	43	36
	2016	145	..	33	68	44	36
	2017	155	..	36	70	49	38
	2018	154	..	34	69	51	37
Puerto Rico	2015	63	..	8	..	54	19
	2016	62	..	8	..	54	19
	2017	49	..	6	..	43	15
	2018	*49	..	*6	..	*43	*16
Sint Maarten (Dutch part)	2015	*10	*2	*2	*5	1	*242
	2016	*10	*2	*2	*5	1	*238
	2017	*9	*1	*2	*5	*1	*227
	2018	*9	*1	*2	*5	*1	*215
St. Kitts-Nevis	2015	*2	0	0	*1	*1	*37
	2016	*2	0	0	*1	*1	*38
	2017	*2	0	0	*1	*1	*37
	2018	*2	0	0	*1	*1	*38
St. Lucia	2015	5	0	0	3	2	30
	2016	5	0	0	3	2	29
	2017	6	0	0	3	2	31
	2018	6	0	0	3	2	31
St. Pierre-Miquelon	2015	*1	..	..	0	0	*96
	2016	*1	..	..	0	0	*99
	2017	*1	..	..	0	0	*101
	2018	*1	..	..	0	0	*88
St. Vincent-Grenadines	2015	*3	0	0	*2	*1	*25
	2016	*3	0	0	*2	1	*25
	2017	*2	0	0	*1	1	*22
	2018	*3	0	0	*2	1	*26

Table 3

Total final consumption and its components

Petajoules and gigajoules per capita

Country or area	Year	Total final consumption	Non-energy use	Energy use			TFC per capita
				Industry	Transport	Other	
Trinidad and Tobago	2015	543	405	71	47	21	396
	2016	489	372	55	42	20	355
	2017	498	380	55	42	20	360
	2018	490	385	52	35	18	352
Turks and Caicos Islands	2015	*1	..	..	0	*1	*33
	2016	1	..	..	0	1	34
	2017	1	..	..	*1	1	36
	2018	*1	..	..	*1	*1	*36
United States	2015	63,609	5,545	11,037	26,085	20,942	198
	2016	63,938	5,627	11,019	26,404	20,888	198
	2017	64,075	5,990	10,769	26,560	20,756	197
	2018	67,075	6,148	11,371	27,093	22,463	205
United States Virgin Is.	2015	*2	..	*1	..	*1	*22
	2016	*2	..	*1	..	*1	*22
	2017	*2	..	*1	..	*1	*17
	2018	*2	..	*1	..	*1	*18
America, South	2015	18,177	884	5,713	6,935	4,645	44
	2016	17,877	914	5,606	6,775	4,582	43
	2017	18,004	875	5,637	6,871	4,620	43
	2018	17,719	804	5,510	6,738	4,666	42
Argentina	2015	2,417	95	560	821	941	56
	2016	2,394	97	533	815	949	55
	2017	2,396	93	525	857	920	55
	2018	2,307	89	529	800	889	52
Bolivia (Plur. State of)	2015	260	2	74	131	53	24
	2016	268	2	74	137	55	24
	2017	279	2	75	145	57	25
	2018	287	2	75	152	59	25
Brazil	2015	10,033	611	3,434	3,872	2,116	49
	2016	9,716	592	3,380	3,710	2,035	47
	2017	9,912	602	3,424	3,738	2,149	48
	2018	9,736	560	3,280	3,687	2,209	46
Chile	2015	1,047	9	442	351	244	58
	2016	1,108	24	445	367	272	61
	2017	1,121	23	421	380	296	61
	2018	1,172	31	441	393	306	63
Colombia	2015	1,227	36	326	422	444	26
	2016	1,297	76	336	439	446	27
	2017	1,255	60	339	437	419	26
	2018	1,232	35	325	449	422	25
Ecuador	2015	466	..	74	241	151	29
	2016	470	..	68	247	154	28
	2017	490	..	72	262	156	29
	2018	495	..	83	251	160	29
Falkland Is. (Malvinas)	2015	0	..	0	0	0	172
	2016	0	..	0	0	0	167
	2017	0	..	0	0	0	150
	2018	0	..	0	0	0	148
Guyana	2015	27	0	7	9	10	35
	2016	29	0	7	11	11	38
	2017	29	0	7	10	11	37
	2018	29	0	6	11	12	37

Table 3

Total final consumption and its components

Petajoules and gigajoules per capita

Country or area	Year	Total final consumption	Non-energy use	Energy use			TFC per capita
				Industry	Transport	Other	
Paraguay	2015	249	2	78	83	87	37
	2016	258	2	75	101	81	38
	2017	273	2	75	113	83	40
	2018	283	2	78	120	83	41
Peru	2015	746	13	212	317	205	24
	2016	773	11	221	340	200	25
	2017	792	13	224	361	195	25
	2018	821	12	234	371	203	26
Suriname	2015	23	0	5	8	10	42
	2016	22	0	5	7	9	38
	2017	23	0	5	9	9	40
	2018	23	0	5	9	9	40
Uruguay	2015	191	3	79	52	57	56
	2016	199	3	82	54	60	58
	2017	202	4	84	56	58	59
	2018	202	5	86	51	61	59
Venezuela (Bolivar. Rep.)	2015	1,489	112	423	628	326	49
	2016	1,344	107	379	549	309	45
	2017	1,232	77	386	503	266	42
	2018	1,133	67	368	444	254	39
Asia	2015	179,903	19,573	73,481	31,671	55,178	41
	2016	182,004	20,302	71,551	32,928	57,222	41
	2017	186,838	20,375	73,600	31,762	61,100	41
	2018	191,271	21,369	77,024	32,160	60,718	42
Afghanistan	2015	*127	*1	*35	*67	*24	*4
	2016	*112	*1	*36	*48	*26	*3
	2017	*113	*2	*41	*41	*28	*3
	2018	*131	*1	*45	*57	*28	*4
Armenia	2015	93	2	13	27	51	32
	2016	92	1	13	26	52	31
	2017	97	1	14	27	54	33
	2018	94	2	14	30	49	32
Azerbaijan	2015	369	36	52	101	180	38
	2016	381	35	61	95	190	39
	2017	376	46	43	109	178	38
	2018	399	52	41	120	185	40
Bahrain	2015	259	67	89	50	53	189
	2016	262	69	89	51	53	184
	2017	262	70	85	53	53	175
	2018	274	73	92	54	56	175
Bangladesh	2015	1,387	58	349	135	845	9
	2016	1,422	56	344	144	879	9
	2017	1,505	54	378	159	914	9
	2018	1,540	47	389	174	931	10
Bhutan	2015	*63	*1	8	6	*49	*87
	2016	*65	*1	9	6	*49	*88
	2017	*67	*1	10	7	*50	*90
	2018	*69	*1	11	7	*49	*92
Brunei Darussalam	2015	54	15	6	19	14	131
	2016	55	19	5	19	13	132
	2017	75	20	23	19	13	177
	2018	77	12	32	19	14	180

Table 3

Total final consumption and its components

Petajoules and gigajoules per capita

Country or area	Year	Total final consumption	Non-energy use	Energy use			TFC per capita
				Industry	Transport	Other	
Cambodia	2015	248	2	43	59	144	16
	2016	267	1	54	70	142	17
	2017	278	1	56	74	148	17
	2018	*297	1	*62	81	*154	*18
China	2015	76,046	7,226	39,212	9,706	19,901	54
	2016	76,244	7,642	37,674	9,944	20,985	54
	2017	77,878	7,658	37,865	10,530	21,825	55
	2018	82,022	8,597	40,206	10,874	22,345	57
China, Hong Kong SAR	2015	316	1	29	82	205	44
	2016	325	1	*30	*88	207	45
	2017	337	2	*32	*96	207	46
	2018	333	*2	*31	*94	206	45
China, Macao SAR	2015	37	2	3	6	26	61
	2016	37	2	2	6	27	61
	2017	37	2	2	6	27	59
	2018	34	2	2	6	24	54
Cyprus	2015	61	1	9	26	25	52
	2016	64	2	9	27	26	55
	2017	67	2	10	29	27	57
	2018	66	2	10	28	26	56
Georgia	2015	175	15	29	57	74	44
	2016	185	13	28	64	79	46
	2017	187	14	32	58	83	47
	2018	186	15	33	57	81	46
India	2015	*26,892	*1,624	11,918	*3,557	*9,793	*21
	2016	*27,419	1,479	11,547	*4,278	*10,115	*21
	2017	28,655	1,127	12,945	1,997	12,587	21
	2018	27,984	1,139	12,852	2,481	11,511	21
Indonesia	2015	5,804	461	1,551	1,259	2,533	22
	2016	5,967	403	1,565	1,361	2,639	23
	2017	6,029	401	1,611	1,391	2,626	23
	2018	6,769	416	2,638	1,296	2,419	25
Iran (Islamic Rep. of)	2015	7,885	1,209	*1,762	1,950	2,965	100
	2016	8,339	1,516	1,854	1,834	3,135	105
	2017	8,657	1,588	1,930	2,090	3,050	107
	2018	8,703	1,609	1,996	1,989	3,108	106
Iraq	2015	776	22	158	351	245	22
	2016	773	15	149	352	257	21
	2017	838	22	156	400	261	22
	2018	927	22	176	467	262	24
Israel	2015	617	73	118	235	192	77
	2016	623	73	112	243	195	77
	2017	650	79	123	248	200	79
	2018	649	79	121	250	199	77
Japan	2015	12,361	1,537	3,602	3,049	4,173	97
	2016	12,177	1,457	3,545	3,017	4,158	95
	2017	12,319	1,544	3,545	2,993	4,237	97
	2018	11,918	1,448	3,478	2,957	4,035	94
Jordan	2015	249	9	41	119	81	27
	2016	267	11	41	130	85	28
	2017	283	10	41	137	95	29
	2018	279	6	39	138	95	28

Table 3

Total final consumption and its components

Petajoules and gigajoules per capita

Country or area	Year	Total final consumption	Non-energy use	Energy use			TFC per capita
				Industry	Transport	Other	
Kazakhstan	2015	1,725	37	872	212	605	98
	2016	1,730	*43	868	*229	591	97
	2017	1,857	45	943	242	628	103
	2018	1,667	*34	638	264	731	91
Korea, Dem.Ppl's.Rep.	2015	279	..	159	19	100	11
	2016	330	..	197	20	113	13
	2017	254	..	140	19	95	10
	2018	215	..	110	19	86	8
Korea, Republic of	2015	7,316	2,027	2,028	1,420	1,841	144
	2016	7,557	2,139	2,025	1,464	1,929	148
	2017	7,741	2,250	2,042	1,495	1,954	151
	2018	7,699	2,176	2,085	1,475	1,964	150
Kuwait	2015	659	124	186	196	153	172
	2016	679	124	197	198	159	172
	2017	712	121	213	210	168	176
	2018	696	125	180	222	170	168
Kyrgyzstan	2015	142	1	32	39	71	24
	2016	146	1	18	48	79	24
	2017	149	0	18	26	105	24
	2018	176	0	21	17	138	28
Lao People's Dem. Rep.	2015	121	0	15	38	67	18
	2016	*129	0	*22	*38	*69	*19
	2017	*137	0	*29	*39	*69	*20
	2018	*140	0	*30	*40	*69	*20
Lebanon	2015	*219	3	*32	*88	*96	*34
	2016	*227	4	*31	*93	*99	*34
	2017	*242	4	*34	*97	*108	*35
	2018	*224	4	*33	*90	*97	*33
Malaysia	2015	2,120	310	566	866	378	70
	2016	2,290	369	648	894	378	75
	2017	2,494	506	705	868	415	80
	2018	2,556	528	766	871	391	81
Maldives	2015	*14	0	*1	*10	*3	*30
	2016	*15	0	*1	*12	*3	*33
	2017	*16	0	*1	*12	*3	*32
	2018	*19	0	*1	*14	*3	*36
Mongolia	2015	203	..	23	21	160	68
	2016	224	..	25	19	181	73
	2017	375	..	26	20	329	120
	2018	424	..	29	21	373	134
Myanmar	2015	*679	16	77	63	*523	*13
	2016	*745	13	94	86	*552	*14
	2017	*733	16	81	75	*562	*14
	2018	*847	20	159	87	*581	*16
Nepal	2015	*494	0	42	30	*421	*18
	2016	*538	0	50	50	*437	*20
	2017	*568	0	56	63	*450	*21
	2018	*591	0	59	69	*462	*21
Oman	2015	851	101	257	188	305	199
	2016	851	101	263	174	312	190
	2017	888	117	299	173	298	190
	2018	986	157	254	172	403	204

Table 3

Total final consumption and its components

Petajoules and gigajoules per capita

Country or area	Year	Total final consumption	Non-energy use	Energy use			TFC per capita
				Industry	Transport	Other	
Other Asia	2015	2,906	911	982	514	499	123
	2016	2,930	900	992	529	508	124
	2017	2,913	888	993	524	508	123
	2018	2,936	930	992	514	500	124
Pakistan	2015	*2,843	198	*782	633	*1,230	*14
	2016	2,940	*188	873	702	1,177	14
	2017	3,225	221	946	778	1,280	16
	2018	3,441	217	1,000	771	*1,453	16
Philippines	2015	1,313	50	281	462	519	13
	2016	1,423	55	311	500	556	14
	2017	1,506	68	332	517	590	14
	2018	1,518	60	315	536	607	14
Qatar	2015	810	225	315	175	95	316
	2016	800	194	328	181	97	302
	2017	832	195	341	185	110	305
	2018	870	202	394	162	*114	313
Saudi Arabia	2015	6,771	1,324	1,809	2,049	1,589	213
	2016	6,590	1,324	1,608	1,942	*1,717	203
	2017	6,291	1,280	1,596	1,737	1,679	190
	2018	6,639	1,472	2,047	1,409	*1,712	197
Singapore	2015	707	274	240	93	101	126
	2016	764	301	270	91	103	135
	2017	1,025	528	295	100	102	180
	2018	834	320	304	105	104	145
Sri Lanka	2015	373	*1	111	117	144	18
	2016	393	*4	96	148	145	19
	2017	382	*1	86	150	145	18
	2018	*375	3	*87	135	*150	*18
State of Palestine	2015	65	1	3	29	32	14
	2016	69	1	3	32	32	15
	2017	68	1	4	32	31	14
	2018	66	2	4	30	31	14
Syrian Arab Republic	2015	242	29	53	79	80	13
	2016	252	28	54	85	84	14
	2017	273	30	58	95	91	16
	2018	260	29	56	89	87	15
Tajikistan	2015	154	1	15	19	119	18
	2016	165	1	26	18	120	19
	2017	164	1	31	16	116	18
	2018	172	1	28	17	126	19
Thailand	2015	4,088	936	1,295	1,006	852	59
	2016	4,056	947	1,297	1,065	747	59
	2017	4,129	944	1,297	1,156	733	60
	2018	4,186	1,016	1,264	1,168	738	60
Timor-Leste	2015	*5	..	..	*1	*4	*4
	2016	*4	..	..	*1	*3	*4
	2017	*4	..	..	*1	*3	*3
	2018	*4	..	..	*1	*3	*3
Turkey	2015	3,859	291	1,049	1,033	1,485	49
	2016	4,040	337	1,065	1,126	1,512	51
	2017	4,338	206	1,312	1,177	1,643	53
	2018	4,240	197	1,314	1,187	1,541	51

Table 3

Total final consumption and its components

Petajoules and gigajoules per capita

Country or area	Year	Total final consumption	Non-energy use	Energy use			TFC per capita
				Industry	Transport	Other	
Turkmenistan	2015	757	..	58	182	517	136
	2016	755	..	58	182	515	133
	2017	756	..	58	182	516	131
	2018	759	..	58	182	519	130
United Arab Emirates	2015	*2,804	*271	*1,617	542	375	*303
	2016	*2,624	*350	*1,406	485	*383	*280
	2017	*2,311	*279	*1,120	528	384	*244
	2018	*2,291	*286	*1,062	529	414	*238
Uzbekistan	2015	1,194	*7	*407	208	573	39
	2016	1,229	*9	*415	199	606	39
	2017	1,231	*9	*393	213	616	39
	2018	1,239	*12	272	235	720	38
Viet Nam	2015	2,262	72	1,132	435	623	24
	2016	2,338	72	1,129	477	660	25
	2017	2,425	22	1,198	536	670	26
	2018	2,365	54	1,179	513	619	25
Yemen	2015	108	0	16	43	48	4
	2016	93	0	13	38	42	3
	2017	86	0	13	36	37	3
	2018	85	0	14	37	35	3
Europe	2015	71,041	6,949	17,508	18,540	28,044	95
	2016	72,437	7,008	17,853	18,900	28,676	97
	2017	73,667	7,643	17,706	19,251	29,067	99
	2018	75,701	8,131	18,160	19,573	29,838	101
Albania	2015	84	3	12	34	35	29
	2016	81	6	12	32	32	28
	2017	89	3	15	35	35	31
	2018	82	2	14	30	36	28
Andorra	2015	9	0	0	5	4	109
	2016	9	0	0	5	4	112
	2017	9	0	0	5	4	112
	2018	9	0	0	5	4	117
Austria	2015	1,140	73	308	365	393	131
	2016	1,168	76	319	372	401	133
	2017	1,178	68	320	377	412	134
	2018	1,165	75	323	380	387	131
Belarus	2015	765	115	168	154	328	81
	2016	772	106	166	160	340	82
	2017	791	105	173	166	347	84
	2018	840	124	186	184	345	89
Belgium	2015	1,728	321	461	379	567	153
	2016	1,743	318	469	384	572	154
	2017	1,721	315	461	378	567	151
	2018	1,741	328	471	380	562	152
Bosnia and Herzegovina	2015	142	3	32	43	64	41
	2016	152	3	32	50	67	45
	2017	149	3	35	53	60	45
	2018	182	4	37	52	89	55
Bulgaria	2015	419	26	115	136	142	58
	2016	419	21	112	139	147	59
	2017	426	20	115	141	149	60
	2018	427	21	114	143	149	61

Table 3

Total final consumption and its components

Petajoules and gigajoules per capita

Country or area	Year	Total final consumption	Non-energy use	Energy use			TFC per capita
				Industry	Transport	Other	
Croatia	2015	294	23	46	84	142	70
	2016	296	23	46	86	142	70
	2017	308	23	50	92	143	74
	2018	301	21	50	90	140	72
Czechia	2015	1,062	100	271	263	428	100
	2016	1,057	70	268	272	446	99
	2017	1,136	119	280	281	456	107
	2018	1,125	120	278	283	444	105
Denmark	2015	569	10	87	179	292	100
	2016	586	10	90	183	302	103
	2017	590	10	95	186	299	103
	2018	593	10	96	189	298	103
Estonia	2015	120	4	22	32	61	91
	2016	122	4	20	33	64	93
	2017	123	5	20	34	64	93
	2018	127	5	22	35	65	96
Faeroe Islands	2015	8	0	1	1	6	174
	2016	8	0	1	1	6	172
	2017	9	0	1	1	7	196
	2018	10	0	1	1	7	198
Finland	2015	1,029	57	432	174	366	188
	2016	1,075	62	446	177	389	196
	2017	1,077	61	453	179	384	195
	2018	1,096	61	471	181	382	198
France	2015	6,466	592	1,162	1,954	2,759	97
	2016	6,549	571	1,205	1,959	2,814	98
	2017	6,551	602	1,182	1,978	2,790	98
	2018	6,398	567	1,167	1,943	2,721	95
Germany	2015	9,311	899	2,342	2,382	3,688	114
	2016	9,447	908	2,357	2,432	3,750	115
	2017	9,562	971	2,388	2,469	3,735	116
	2018	9,387	918	2,422	2,404	3,643	113
Gibraltar	2015	7	1	..	6	1	222
	2016	8	1	..	6	1	238
	2017	9	1	..	7	1	253
	2018	9	1	..	7	1	275
Greece	2015	690	29	131	244	285	65
	2016	695	25	129	250	290	65
	2017	687	37	116	247	288	65
	2018	664	38	115	250	260	63
Guernsey	2015	1	..	..	..	1	20
	2016	1	..	..	..	1	20
	2017	1	..	..	..	1	21
	2018	1	..	..	..	1	20
Hungary	2015	795	82	165	180	367	81
	2016	811	80	170	185	377	83
	2017	847	95	180	193	379	87
	2018	846	96	187	204	359	87
Iceland	2015	120	1	61	13	46	364
	2016	122	1	60	14	47	369
	2017	125	1	63	15	47	374
	2018	136	2	64	15	55	404

Table 3

Total final consumption and its components

Petajoules and gigajoules per capita

Country or area	Year	Total final consumption	Non-energy use	Energy use			TFC per capita
				Industry	Transport	Other	
Ireland	2015	439	9	99	159	172	94
	2016	457	12	102	171	172	97
	2017	456	11	104	169	172	96
	2018	474	10	109	172	183	98
Isle of Man	2015	2	..	1	..	2	27
	2016	2	..	1	..	2	28
	2017	2	..	0	..	2	28
	2018	2	..	0	..	2	27
Italy	2015	5,006	279	1,049	1,545	2,134	83
	2016	4,964	266	1,054	1,521	2,124	82
	2017	5,008	334	1,048	1,466	2,160	82
	2018	5,015	302	1,023	1,512	2,178	83
Jersey	2015	6	..	1	2	3	59
	2016	6	..	*1	2	3	59
	2017	6	..	*1	2	3	57
	2018	6	..	*2	2	3	58
Kosovo	2015	58	2	13	16	27	33
	2016	62	2	12	16	32	35
	2017	66	2	13	17	33	37
	2018	64	2	12	18	32	36
Latvia	2015	160	5	33	44	78	80
	2016	160	4	31	44	80	81
	2017	167	4	33	46	84	85
	2018	174	4	38	47	85	90
Liechtenstein	2015	3	..	..	..	3	79
	2016	3	..	..	..	3	79
	2017	3	..	..	..	3	80
	2018	3	..	..	..	3	..
Lithuania	2015	248	47	41	74	86	85
	2016	255	44	41	79	91	88
	2017	270	51	44	83	93	95
	2018	275	47	46	88	93	98
Luxembourg	2015	151	1	27	84	39	267
	2016	151	2	28	82	40	261
	2017	155	1	26	84	43	261
	2018	160	2	26	90	42	265
Malta	2015	20	0	2	8	9	45
	2016	20	0	2	8	9	45
	2017	21	0	2	9	9	48
	2018	22	0	2	10	9	49
Montenegro	2015	29	1	6	8	14	46
	2016	30	1	5	9	15	48
	2017	32	2	6	10	15	51
	2018	32	2	6	11	14	52
Netherlands	2015	2,378	516	576	443	841	140
	2016	2,425	538	594	444	849	143
	2017	2,477	571	601	457	849	146
	2018	2,450	541	595	468	846	144
North Macedonia	2015	83	3	18	26	37	40
	2016	85	6	15	29	35	41
	2017	85	3	14	30	37	41
	2018	82	2	16	31	34	39

Table 3

Total final consumption and its components

Petajoules and gigajoules per capita

Country or area	Year	Total final consumption	Non-energy use	Energy use			TFC per capita
				Industry	Transport	Other	
Norway	2015	858	104	247	209	297	165
	2016	866	97	247	212	309	165
	2017	866	104	253	199	311	164
	2018	875	105	256	198	317	164
Poland	2015	2,791	244	607	708	1,232	73
	2016	2,959	241	620	791	1,307	78
	2017	3,144	256	669	913	1,307	83
	2018	3,177	240	689	956	1,291	84
Portugal	2015	687	57	185	236	209	66
	2016	683	49	184	241	208	66
	2017	694	51	190	245	208	67
	2018	684	31	192	247	215	67
Republic of Moldova	2015	100	2	9	27	62	25
	2016	105	1	8	29	66	26
	2017	110	2	9	29	70	27
	2018	115	3	10	30	73	28
Romania	2015	939	50	251	226	411	47
	2016	953	51	243	243	416	48
	2017	992	47	251	261	433	50
	2018	1,013	45	260	267	440	52
Russian Federation	2015	18,383	2,493	5,210	3,953	6,726	127
	2016	18,854	2,558	5,584	3,970	6,742	130
	2017	19,426	2,908	5,211	4,034	7,273	133
	2018	21,464	3,539	5,487	4,254	8,184	147
Serbia	2015	349	25	82	83	159	49
	2016	372	35	86	85	165	53
	2017	383	36	93	88	166	54
	2018	380	31	97	90	162	54
Slovakia	2015	425	44	143	94	145	78
	2016	434	41	142	104	147	80
	2017	467	46	147	119	154	86
	2018	476	53	158	118	147	87
Slovenia	2015	201	5	51	75	70	97
	2016	210	6	52	80	73	101
	2017	213	6	54	82	71	102
	2018	215	7	58	84	67	103
Spain	2015	3,364	182	757	1,241	1,184	72
	2016	3,465	208	754	1,291	1,212	74
	2017	3,549	206	822	1,338	1,183	76
	2018	3,639	218	844	1,374	1,202	78
Sweden	2015	1,365	75	469	312	509	140
	2016	1,395	91	467	309	528	142
	2017	1,402	104	468	310	520	142
	2018	1,376	91	467	304	514	138
Switzerland	2015	782	20	149	242	371	94
	2016	793	19	150	242	383	94
	2017	784	19	151	240	375	92
	2018	764	19	145	242	358	89
Ukraine	2015	2,145	139	692	371	943	48
	2016	2,206	121	634	394	1,057	49
	2017	2,122	104	639	416	963	48
	2018	2,220	111	699	415	996	50

Table 3

Total final consumption and its components

Petajoules and gigajoules per capita

Country or area	Year	Total final consumption	Non-energy use	Energy use			TFC per capita
				Industry	Transport	Other	
United Kingdom	2015	5,308	305	974	1,724	2,305	81
	2016	5,402	328	893	1,763	2,418	81
	2017	5,380	337	909	1,769	2,365	81
	2018	5,404	332	903	1,766	2,402	80
Oceania	2015	4,187	292	1,177	1,618	1,100	105
	2016	4,224	311	1,164	1,640	1,109	104
	2017	4,259	293	1,172	1,679	1,115	104
	2018	4,307	290	1,183	1,714	1,120	104
American Samoa	2015	1	0	0	..	0	9
	2016	1	0	0	..	0	10
	2017	*1	0	0	..	0	*10
	2018	*1	0	0	..	0	*10
Australia	2015	3,374	226	926	1,359	863	141
	2016	3,397	236	912	1,375	874	140
	2017	3,419	224	916	1,399	880	139
	2018	3,474	227	931	1,427	889	140
Cook Islands	2015	*1	..	..	*1	0	*45
	2016	*1	..	..	*1	0	*44
	2017	*1	..	..	*1	0	*48
	2018	*1	..	..	*1	0	*49
Fiji	2015	*22	0	*10	*9	4	*26
	2016	*20	0	*7	*9	4	*23
	2017	*22	0	*9	*9	4	*26
	2018	*22	0	*8	*9	*4	*25
French Polynesia	2015	8	0	..	5	*3	30
	2016	9	0	..	6	*3	32
	2017	9	0	..	5	*3	31
	2018	9	0	..	6	*3	32
Guam	2015	6	..	..	..	6	34
	2016	6	..	..	..	6	35
	2017	6	..	..	..	6	35
	2018	6	..	..	..	6	34
Kiribati	2015	*1	0	0	0	*1	*10
	2016	*1	0	0	0	*1	*10
	2017	*1	0	0	0	*1	*12
	2018	*1	0	0	0	*1	*11
Marshall Islands	2015	*2	..	0	*1	0	*29
	2016	*2	..	0	*1	0	*29
	2017	*2	..	0	*1	0	*29
	2018	*2	..	0	*1	0	*29
Micronesia (Fed. States of)	2015	*1	0	0	*1	0	*13
	2016	*1	0	0	*1	0	*13
	2017	*1	0	0	*1	0	*13
	2018	*1	0	0	*1	0	*13
Nauru	2015	0	..	0	0	0	*47
	2016	0	..	0	0	0	*44
	2017	*1	..	0	0	0	*48
	2018	*1	..	0	0	0	*47
New Caledonia	2015	39	5	21	9	3	142
	2016	41	7	21	9	3	148
	2017	42	7	22	9	3	151
	2018	*45	7	*24	*11	*4	*162

Table 3

Total final consumption and its components

Petajoules and gigajoules per capita

Country or area	Year	Total final consumption	Non-energy use	Energy use			TFC per capita
				Industry	Transport	Other	
New Zealand	2015	594	59	184	201	150	129
	2016	606	68	186	206	146	130
	2017	614	62	187	219	146	131
	2018	603	55	182	224	142	127
Niue	2015	0	..	0	0	0	46
	2016	0	..	0	0	0	*47
	2017	0	..	0	0	0	*46
	2018	0	..	0	0	0	*47
Northern Mariana Islands	2015	*1	..	..	..	*1	*22
	2016	*1	..	..	..	*1	*19
	2017	*1	..	..	..	*1	*19
	2018	*1	..	..	..	*1	*19
Palau	2015	*2	0	0	*2	0	*116
	2016	*2	0	0	*2	0	*119
	2017	*2	0	0	*2	0	*123
	2018	2	0	0	2	0	121
Papua New Guinea	2015	*119	..	36	24	*60	*15
	2016	*121	..	37	24	*60	*15
	2017	122	..	37	24	*61	14
	2018	*122	..	*37	*24	*61	*14
Samoa	2015	4	0	0	2	2	23
	2016	4	0	0	2	2	23
	2017	*5	0	0	*2	*2	*24
	2018	*5	0	0	*2	*2	*24
Solomon Islands	2015	*7	0	0	*3	*4	*11
	2016	*7	0	0	*3	*4	*11
	2017	*7	0	0	*3	*4	*11
	2018	*7	0	0	*3	*4	*10
Tonga	2015	*1	0	..	*1	0	*13
	2016	*1	0	..	*1	0	*14
	2017	*2	0	..	*1	0	*17
	2018	*2	0	..	*1	0	*15
Tuvalu	2015	0	..	..	0	0	4
	2016	0	..	..	0	0	5
	2017	0	..	..	0	0	5
	2018	0	..	..	0	0	*5
Vanuatu	2015	*3	0	0	*1	*1	*9
	2016	*3	0	0	*2	*1	*10
	2017	*2	0	0	*1	*1	*9
	2018	*3	0	0	*2	*1	*10
Wallis and Futuna Is.	2015	0	..	..	0	0	*18
	2016	0	..	..	0	0	*19
	2017	0	..	..	0	0	*19
	2018	0	..	..	0	0	*20

Production, trade and supply of coal

Thousand metric tons of coal equivalent and kilograms per capita

Table Notes

Production includes hard coal, brown coal, oil shale and peat. Production from other sources of hard coal and brown coal is also included, representing recovered slurries, middlings, and other low-grade coal products which cannot be classified according to type of coal and which includes coal recovered from waste piles and other waste receptacles.

Imports, Exports and Changes in stocks refer to hard coal, brown coal, oil shale, peat, coke oven coke, gas coke, coal tar, patent fuel, brown coal briquettes, peat products and other coal products.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description/classification, and xvi to xvii for the descriptions of relevant flows.

Figure 11: Production of coal by region, 1990-2018

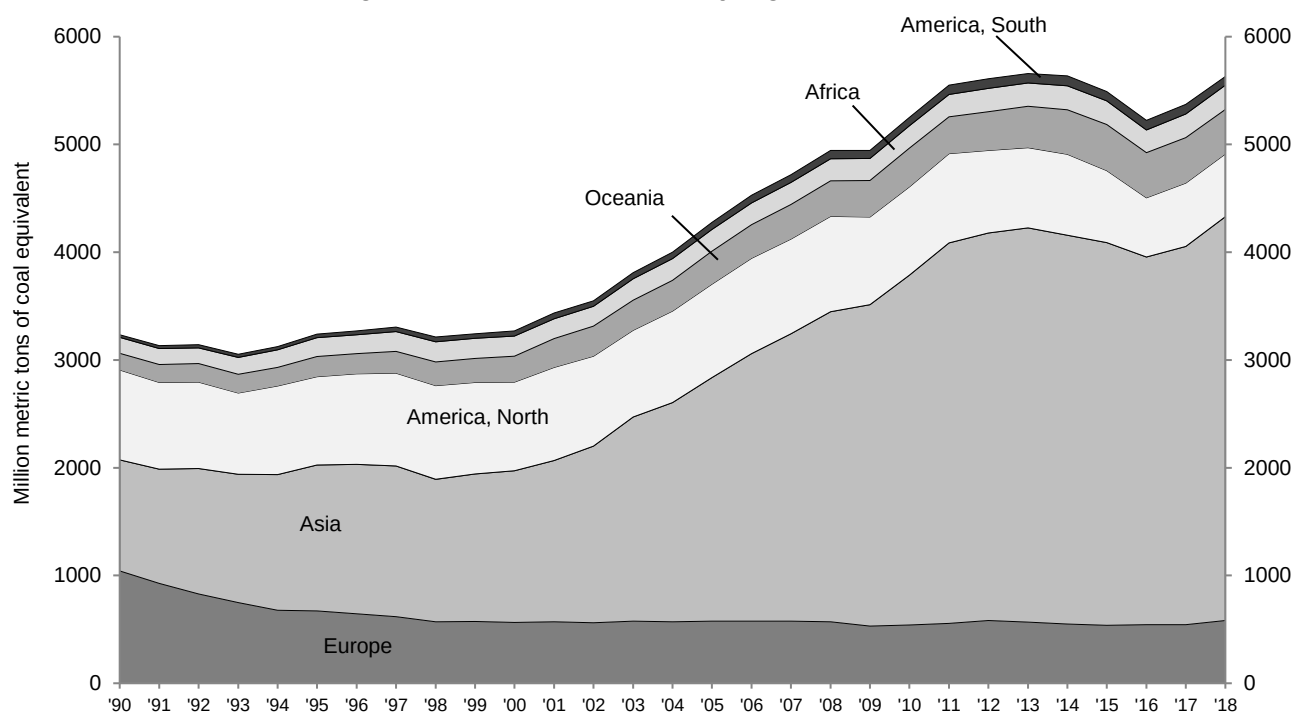


Table 4

Production, trade and supply of coal
 Thousand metric tons of coal equivalent and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
World	2015	5,491,616	1,076,500	1,145,144	9,423	5,413,549	734
	2016	5,224,437	1,085,684	1,168,783	-165,667	5,307,005	711
	2017	5,371,636	1,143,538	1,232,776	-49,143	5,331,540	706
	2018	5,631,460	1,167,589	1,300,312	19,628	5,479,108	718
Africa	2015	218,895	10,463	66,312	2,540	160,506	136
	2016	210,914	11,171	62,521	-3,106	162,669	134
	2017	220,922	12,825	68,112	1,050	164,586	132
	2018	225,090	14,190	69,688	916	168,677	132
Algeria	2015	..	203	..	1	202	5
	2016	..	75	..	75	0	0
	2017	..	290	..	-30	319	8
	2018	..	493	..	-42	535	13
Benin	2015	..	36	..	..	36	3
	2016	..	106	..	..	106	10
	2017	..	112	..	..	112	10
	2018	..	106	..	106	0	0
Botswana	2015	1,678	..	195	*391	1,093	515
	2016	1,508	..	165	*-3	1,346	623
	2017	1,787	..	184	..	1,603	727
	2018	1,999	..	255	..	1,743	773
Burundi	2015	2	0	..	..	2	0
	2016	5	9	..	..	14	1
	2017	7	1	..	..	8	1
	2018	6	0	..	..	6	1
Egypt	2015	..	600	94	0	507	5
	2016	..	668	*61	0	607	6
	2017	..	667	*143	..	524	5
	2018	..	485	..	*76	409	4
Eswatini	2015	*76	45	*76	..	*45	*41
	2016	139	72	*139	*-10	82	73
	2017	160	54	160	..	54	48
	2018	114	54	114	..	54	47
Ethiopia	2015	..	362	..	..	362	4
	2016	2	463	..	..	465	4
	2017	2	511	..	..	512	5
	2018	2	545	..	..	547	5
Kenya	2015	..	438	..	..	438	9
	2016	..	432	..	..	432	9
	2017	..	408	..	..	408	8
	2018	..	610	..	..	610	12
Lesotho	2015	..	*541	..	..	*541	*263
	2016	..	*519	..	..	*519	*250
	2017	..	*597	..	..	*597	*285
	2018	..	*629	..	..	*629	*298
Madagascar	2015	..	*349	..	..	*349	*14
	2016	..	340	..	..	340	14
	2017	..	483	..	..	483	19
	2018	..	*493	..	..	*493	*19
Malawi	2015	52	30	7	..	75	4
	2016	38	*40	7	..	71	4
	2017	*42	*36	*7	..	*71	*4
	2018	*44	*42	*8	..	*77	*4

Table 4

Production, trade and supply of coal

Thousand metric tons of coal equivalent and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Mauritius	2015	..	708	..	73	635	504
	2016	..	815	..	168	647	512
	2017	..	1,267	..	594	673	532
	2018	..	1,136	..	497	639	504
Morocco	2015	..	6,090	..	-259	6,349	180
	2016	..	6,340	..	221	6,119	172
	2017	..	6,420	..	59	6,361	176
	2018	..	7,977	..	920	7,056	193
Mozambique	2015	6,152	..	4,482	*1,507	163	6
	2016	5,039	..	7,291	*-2,271	19	1
	2017	10,800	..	10,800	-34	34	1
	2018	11,282	..	12,132	-893	44	1
Namibia	2015	..	3	..	..	3	1
	2016	..	26	..	..	26	11
	2017	..	33	..	..	33	14
	2018	..	17	..	7	10	4
Niger	2015	121	..	..	-2	123	6
	2016	135	..	..	0	135	6
	2017	122	..	..	0	122	6
	2018	151	..	..	..	151	7
Nigeria	2015	41	..	..	..	41	0
	2016	40	..	..	..	40	0
	2017	40	..	..	..	40	0
	2018	41	..	..	..	41	0
Rwanda	2015	..	..	..	..	..	..
	2016	..	..	..	..	..	..
	2017	..	..	..	..	..	..
	2018	*2	..	..	..	*2	0
Senegal	2015	..	433	..	..	433	30
	2016	..	455	..	..	455	30
	2017	..	542	..	..	542	35
	2018	..	852	..	..	852	54
South Africa	2015	206,396	549	61,274	..	145,671	2,630
	2016	201,981	699	54,627	..	148,053	2,634
	2017	204,095	1,297	56,656	..	148,736	2,609
	2018	206,824	669	56,981	..	150,512	2,604
United Rep. of Tanzania	2015	226	..	..	..	226	4
	2016	243	..	..	..	243	5
	2017	496	..	..	..	496	9
	2018	553	..	..	..	553	10
Zambia	2015	134	*54	*3	..	185	12
	2016	277	*50	*2	..	325	20
	2017	672	*50	*2	..	720	43
	2018	990	*50	*2	..	1,038	60
Zimbabwe	2015	4,016	22	181	829	3,028	219
	2016	1,507	61	229	-1,286	2,625	187
	2017	2,698	58	159	461	2,137	150
	2018	3,084	33	195	246	2,676	185
America, North	2015	668,594	27,738	86,763	26,085	583,485	1,028
	2016	549,460	25,669	76,312	-36,077	534,894	934
	2017	586,611	26,306	106,625	-14,142	520,433	901
	2018	581,223	24,407	124,947	-21,146	501,830	862

Table 4

Production, trade and supply of coal
 Thousand metric tons of coal equivalent and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Bahamas	2015	..	*1	..	..	*1	*4
	2016	..	*1	..	..	*1	*4
	2017	..	*1	..	..	*1	*4
	2018	..	*1	..	..	*1	*4
Bermuda	2015	..	0	..	..	0	5
	2016	..	0	..	..	0	8
	2017	..	0	..	..	0	4
	2018	..	3	..	..	3	45
Canada	2015	44,193	7,834	25,893	-489	26,622	739
	2016	41,707	6,756	25,918	-2,401	24,947	686
	2017	44,091	7,775	26,500	479	24,886	677
	2018	44,329	7,832	28,776	1,556	21,829	589
Costa Rica	2015	..	0	..	..	0	0
	2016	..	0	..	..	0	0
	2017	..	6	..	..	6	1
	2018	..	0	..	..	0	0
Cuba	2015	..	7	..	..	7	1
	2016	..	3	..	..	3	0
	2017	..	4	..	..	4	0
	2018	..	5	..	..	5	0
Dominican Republic	2015	..	981	..	22	959	93
	2016	..	988	..	34	954	92
	2017	..	1,105	..	-5	1,109	106
	2018	..	1,112	..	21	1,090	103
El Salvador	2015	..	1	..	..	1	0
	2016	..	1	..	..	1	0
	2017	..	1	..	..	1	0
	2018	..	1	..	..	1	0
Guatemala	2015	..	2,200	..	687	1,513	93
	2016	..	2,016	..	239	1,777	107
	2017	..	1,609	..	135	1,475	87
	2018	..	1,780	..	39	1,741	101
Honduras	2015	..	114	..	..	114	12
	2016	..	51	..	..	51	6
	2017	..	1	..	..	1	0
	2018	..	..	..	..	..	..
Jamaica	2015	..	95	..	6	89	31
	2016	..	86	..	1	86	30
	2017	..	85	..	12	72	25
	2018	..	93	..	17	77	26
Mexico	2015	8,282	7,554	3	-548	16,380	134
	2016	9,943	8,053	2	308	17,686	143
	2017	9,401	9,819	99	1,010	18,111	145
	2018	9,768	8,924	48	1,518	17,127	136
Panama	2015	..	312	..	..	312	79
	2016	..	276	..	..	276	68
	2017	..	77	..	..	77	19
	2018	..	193	..	..	193	46
United States	2015	616,120	8,639	60,867	26,407	537,486	1,675
	2016	497,810	7,437	50,392	-34,257	489,112	1,514
	2017	533,119	5,823	80,026	-15,773	474,689	1,460
	2018	527,126	4,463	96,123	-24,297	459,763	1,406

Table 4

Production, trade and supply of coal

Thousand metric tons of coal equivalent and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
America, South	2015	87,000	31,728	70,646	2,092	45,991	112
	2016	90,472	31,290	80,119	-1,685	43,328	104
	2017	89,060	33,167	98,393	-19,077	42,911	102
	2018	82,766	32,983	80,763	-6,384	41,370	98
Argentina	2015	29	1,959	10	-83	2,060	48
	2016	20	1,554	8	-13	1,581	36
	2017	17	1,486	0	-110	1,613	37
	2018	51	1,666	2	72	1,642	37
Bolivia (Plur. State of)	2015	..	5	..	..	5	0
	2016	..	5	..	..	5	0
	2017	..	9	..	..	9	1
	2018	..	7	..	..	7	1
Brazil	2015	3,467	21,209	..	-434	25,110	123
	2016	3,766	19,532	..	485	22,813	111
	2017	2,759	21,563	..	204	24,118	116
	2018	2,757	21,539	..	758	23,539	112
Chile	2015	2,986	8,110	840	17	10,239	570
	2016	1,448	9,464	641	91	10,179	559
	2017	1,403	9,554	579	-79	10,456	566
	2018	1,286	9,357	272	176	10,195	544
Colombia	2015	79,437	..	68,903	3,316	7,218	152
	2016	84,046	..	78,588	-1,864	7,321	152
	2017	84,081	..	97,083	-18,538	5,536	113
	2018	78,263	..	79,747	-6,472	4,989	100
Falkland Is. (Malvinas)	2015	*3	..	..	..	*3	*917
	2016	*2	..	..	..	*2	*778
	2017	2	..	..	..	2	529
	2018	2	..	..	..	2	502
Paraguay	2015	..	4	..	..	4	1
	2016	..	2	..	..	2	0
	2017	..	1	..	..	1	0
	2018	..	5	..	..	5	1
Peru	2015	243	440	244	-724	1,164	38
	2016	251	730	154	-384	1,211	39
	2017	278	553	326	-554	1,059	34
	2018	198	408	581	-917	943	29
Uruguay	2015	..	1	..	..	1	0
	2016	..	2	..	..	2	1
	2017	..	1	..	..	1	0
	2018	..	1	..	..	1	0
Venezuela (Bolivar. Rep.)	2015	836	..	649	..	188	6
	2016	939	..	728	..	211	7
	2017	521	..	405	..	117	4
	2018	209	..	162	..	47	2
Asia	2015	3,548,863	784,264	392,975	-9,994	3,950,147	891
	2016	3,411,978	812,063	411,505	-104,058	3,916,594	875
	2017	3,510,565	856,957	418,953	-25,593	3,974,162	879
	2018	3,746,835	886,696	449,172	42,922	4,141,437	908
Afghanistan	2015	1,201	*193	425	..	969	28
	2016	1,495	*193	709	..	979	28
	2017	1,929	*195	957	..	1,167	32
	2018	2,152	*195	1,048	..	1,300	35

Table 4

Production, trade and supply of coal
 Thousand metric tons of coal equivalent and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Armenia	2015	..	1	..	..	1	0
	2016	..	1	..	..	1	0
	2017	..	1	..	..	1	0
	2018	..	2	..	..	2	1
Azerbaijan	2015	..	1	..	-4	5	0
	2016	..	1	..	-1	2	0
	2017	..	2	..	0	2	0
	2018	..	1	..	..	1	0
Bangladesh	2015	483	2,620	..	-141	3,243	21
	2016	729	1,559	..	..	2,289	14
	2017	829	1,866	..	..	2,695	17
	2018	659	2,424	..	..	3,083	19
Bhutan	2015	75	..	5	..	70	96
	2016	104	..	0	..	104	141
	2017	142	..	17	..	126	168
	2018	142	*22	..	..	164	218
Cambodia	2015	..	838	..	..	838	54
	2016	..	970	..	..	970	62
	2017	38	1,326	..	-77	1,441	90
	2018	41	801	..	..	841	52
China	2015	2,607,837	124,709	13,088	-19,290	2,738,748	1,947
	2016	2,415,315	160,992	16,054	-105,199	2,665,452	1,885
	2017	2,496,752	169,202	13,579	-37,854	2,690,229	1,893
	2018	2,622,819	171,719	12,957	23,843	2,757,738	1,932
China, Hong Kong SAR	2015	..	10,063	0	499	9,564	1,331
	2016	..	10,042	0	478	9,565	1,320
	2017	..	9,450	..	490	8,960	1,226
	2018	..	9,793	..	592	9,201	1,248
Cyprus	2015	..	5	..	0	5	5
	2016	..	0	..	0	0	0
	2017	..	15	..	10	5	4
	2018	..	19	..	-1	20	17
Georgia	2015	177	238	1	5	409	102
	2016	172	245	1	34	383	95
	2017	156	289	14	-1	431	108
	2018	80	406	3	32	451	113
India	2015	378,700	185,749	812	3,612	560,025	427
	2016	384,883	176,775	1,085	-7,385	567,959	429
	2017	385,495	193,663	930	-8,617	586,845	438
	2018	412,754	220,142	755	2,907	629,234	465
Indonesia	2015	376,390	2,863	323,263	-1,823	57,812	224
	2016	402,358	3,959	326,101	-364	80,581	308
	2017	407,258	4,694	344,127	346	67,479	255
	2018	485,069	5,323	379,789	-875	111,478	416
Iran (Islamic Rep. of)	2015	1,144	684	188	0	1,639	21
	2016	1,056	345	99	1	1,302	16
	2017	1,452	440	114	1	1,777	22
	2018	1,570	607	305	..	1,872	23
Israel	2015	57	9,404	..	5	9,456	1,185
	2016	57	7,465	..	-331	7,853	968
	2017	61	7,240	..	201	7,099	861
	2018	56	6,557	..	-220	6,833	815

Table 4

Production, trade and supply of coal

Thousand metric tons of coal equivalent and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Japan	2015	1,107	168,250	786	-3	168,573	1,317
	2016	942	163,473	1,024	77	163,314	1,278
	2017	1,106	166,350	1,229	-80	166,307	1,304
	2018	1,053	163,922	1,456	62	163,457	1,285
Jordan	2015	..	258	..	..	258	28
	2016	..	324	..	..	324	34
	2017	..	221	..	..	221	23
	2018	..	301	..	..	301	30
Kazakhstan	2015	62,488	901	19,044	647	43,699	2,487
	2016	62,503	778	16,506	1,382	45,393	2,546
	2017	68,585	876	18,635	1,669	49,156	2,719
	2018	69,537	1,189	17,288	-286	53,723	2,933
Korea, Dem.Ppl's.Rep.	2015	24,101	1,009	17,971	..	7,139	283
	2016	27,955	1,284	20,435	..	8,805	348
	2017	18,995	794	*4,435	*9,276	6,078	239
	2018	15,856	128	..	*11,444	4,540	178
Korea, Republic of	2015	1,121	115,899	..	1,130	115,890	2,280
	2016	1,097	116,238	..	812	116,523	2,286
	2017	983	116,668	..	-198	117,849	2,306
	2018	754	114,013	..	-222	114,989	2,247
Kyrgyzstan	2015	1,011	972	149	222	1,612	270
	2016	959	567	204	37	1,284	211
	2017	969	648	268	97	1,251	202
	2018	1,241	585	433	-91	1,484	235
Lao People's Dem. Rep.	2015	1,852	..	0	..	1,852	275
	2016	4,993	..	0	*1,176	3,817	558
	2017	5,070	..	0	*-42	5,112	735
	2018	5,351	..	0	*-44	5,396	764
Lebanon	2015	..	*236	..	..	*236	*36
	2016	..	*236	..	..	*236	*35
	2017	..	*236	..	..	*236	*35
	2018	..	*236	..	..	*236	*34
Malaysia	2015	2,305	22,930	223	14	24,998	826
	2016	2,175	24,447	22	-178	26,779	873
	2017	2,692	27,401	547	-82	29,628	953
	2018	2,389	29,633	0	305	31,717	1,006
Mongolia	2015	20,639	1	12,864	473	7,303	2,436
	2016	31,123	0	23,064	-131	8,190	2,680
	2017	43,242	2	27,749	4,289	11,206	3,599
	2018	46,279	2	30,650	-384	16,015	5,052
Myanmar	2015	363	0	16	..	347	7
	2016	566	209	20	..	755	14
	2017	737	0	0	..	737	14
	2018	921	..	..	..	921	17
Nepal	2015	19	777	..	..	796	29
	2016	19	966	..	..	985	36
	2017	21	1,109	..	..	1,130	41
	2018	21	1,183	..	..	1,204	43
Other Asia	2015	..	58,596	1	736	57,860	2,456
	2016	..	57,963	1	-125	58,087	2,459
	2017	..	59,932	45	622	59,265	2,503
	2018	..	55,500	25	-993	56,468	2,380

Table 4

Production, trade and supply of coal
 Thousand metric tons of coal equivalent and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Pakistan	2015	2,658	4,607	..	..	7,265	36
	2016	2,673	6,623	..	..	9,296	46
	2017	2,538	12,908	..	..	15,445	74
	2018	2,874	14,796	..	..	17,670	83
Philippines	2015	5,563	13,248	2,342	-343	16,813	165
	2016	8,453	15,061	5,153	-292	18,654	180
	2017	8,997	17,003	4,654	-974	22,320	212
	2018	8,864	19,979	3,811	1,527	23,505	220
Singapore	2015	..	581	0	..	581	104
	2016	..	609	1	..	609	108
	2017	..	1,284	1	*599	685	120
	2018	..	693	1	..	692	120
Sri Lanka	2015	..	1,882	..	*-85	1,967	94
	2016	..	2,405	..	323	2,082	99
	2017	..	2,527	..	*370	2,157	102
	2018	..	2,166	..	82	2,084	98
Syrian Arab Republic	2015	..	1	..	..	1	0
	2016	..	1	..	..	1	0
	2017	..	1	..	..	1	0
	2018	..	1	..	..	1	0
Tajikistan	2015	653	8	0	..	661	78
	2016	1,117	8	0	..	1,125	130
	2017	1,491	6	4	..	1,492	168
	2018	1,609	6	37	..	1,578	173
Thailand	2015	5,545	21,582	19	2,984	24,124	351
	2016	6,151	20,375	31	4,474	22,022	319
	2017	5,864	21,101	41	3,512	23,412	338
	2018	5,357	23,276	76	5,939	22,619	326
Turkey	2015	18,284	31,470	215	273	49,266	627
	2016	22,139	33,623	179	777	54,805	687
	2017	22,403	35,588	204	435	57,352	707
	2018	23,637	34,970	184	-45	58,469	710
United Arab Emirates	2015	..	2,452	0	..	2,452	265
	2016	..	2,630	0	..	2,630	281
	2017	..	3,042	1	..	3,041	321
	2018	..	2,744	0	..	2,743	285
Uzbekistan	2015	1,761	476	0	61	2,176	70
	2016	1,955	469	0	-155	2,579	82
	2017	2,036	481	0	87	2,430	76
	2018	2,111	757	0	-648	3,517	108
Viet Nam	2015	33,331	625	*1,564	1,034	31,357	338
	2016	30,988	1,107	818	534	30,743	328
	2017	30,727	286	1,404	329	29,280	310
	2018	33,637	2,497	353	..	35,781	374
Yemen	2015	..	137	..	..	137	5
	2016	..	119	..	..	119	4
	2017	..	112	..	..	112	4
	2018	..	109	..	..	109	4
Europe	2015	538,953	221,028	165,255	-13,843	608,569	817
	2016	542,312	203,971	177,959	-14,262	582,585	780
	2017	543,618	212,747	190,221	3,730	562,414	752
	2018	582,321	207,306	223,115	5,788	560,724	749

Table 4

Production, trade and supply of coal

Thousand metric tons of coal equivalent and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Albania	2015	34	88	0	..	122	42
	2016	2	70	..	..	72	25
	2017	32	92	21	..	103	36
	2018	68	111	1	..	177	61
Andorra	2015	..	0	..	..	0	*1
	2016	..	0	..	..	0	*1
	2017	..	0	..	..	0	*1
	2018	..	0	..	..	0	*1
Austria	2015	0	3,984	57	-618	4,546	524
	2016	0	4,132	37	-219	4,314	493
	2017	..	4,480	39	2	4,439	503
	2018	..	3,873	42	-75	3,906	439
Belarus	2015	350	641	65	-172	1,098	116
	2016	465	676	62	-101	1,180	125
	2017	654	694	176	-44	1,216	129
	2018	814	1,343	722	178	1,257	133
Belgium	2015	83	4,562	133	-181	4,693	416
	2016	83	4,113	76	-231	4,351	383
	2017	71	4,219	105	-205	4,390	384
	2018	94	4,608	76	235	4,391	382
Bosnia and Herzegovina	2015	4,189	1,442	439	277	4,915	1,433
	2016	5,029	1,340	462	33	5,874	1,735
	2017	5,160	1,442	386	232	5,984	1,785
	2018	5,227	1,520	621	83	6,043	1,818
Bulgaria	2015	8,379	1,080	8	-6	9,457	1,314
	2016	7,309	822	4	-34	8,160	1,141
	2017	8,134	833	5	193	8,769	1,235
	2018	7,536	842	10	260	8,107	1,150
Croatia	2015	..	892	..	26	865	204
	2016	..	949	..	19	930	221
	2017	..	564	..	4	560	134
	2018	..	479	..	-44	522	126
Czechia	2015	24,164	3,883	4,218	273	23,556	2,222
	2016	23,034	4,165	4,284	-947	23,863	2,247
	2017	21,832	4,222	3,308	-112	22,858	2,148
	2018	20,999	4,151	2,842	-254	22,562	2,115
Denmark	2015	..	2,282	76	-389	2,596	456
	2016	..	2,403	17	-434	2,819	494
	2017	..	2,564	0	351	2,213	386
	2018	..	2,519	15	51	2,453	426
Estonia	2015	6,067	6	21	489	5,564	4,230
	2016	4,895	21	19	-832	5,728	4,351
	2017	5,935	34	29	-127	6,067	4,599
	2018	6,885	33	13	146	6,759	5,109
Finland	2015	1,196	3,713	120	-1,088	5,877	1,072
	2016	1,029	3,994	89	-1,590	6,524	1,187
	2017	1,044	3,872	135	-1,143	5,923	1,075
	2018	2,588	4,077	105	551	6,009	1,088
France	2015	0	13,042	26	-218	13,235	199
	2016	0	12,318	79	-895	13,133	196
	2017	..	14,411	6	305	14,101	210
	2018	..	13,086	48	128	12,911	192

Table 4

Production, trade and supply of coal
 Thousand metric tons of coal equivalent and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Germany	2015	61,661	53,538	1,852	-531	113,878	1,392
	2016	56,750	56,663	1,985	1,187	110,241	1,341
	2017	56,346	48,289	2,112	608	101,915	1,233
	2018	53,737	43,257	2,082	-3,546	98,459	1,184
Greece	2015	8,108	227	..	326	8,009	751
	2016	5,675	272	..	-295	6,242	588
	2017	6,525	327	..	-29	6,880	651
	2018	6,107	335	..	-281	6,722	639
Hungary	2015	2,169	1,578	430	-59	3,376	345
	2016	2,089	1,624	514	-27	3,226	331
	2017	1,833	1,798	376	44	3,211	330
	2018	1,816	1,795	303	77	3,231	333
Iceland	2015	..	133	..	..	133	402
	2016	..	141	..	..	141	426
	2017	..	142	..	..	142	423
	2018	..	144	..	-12	156	464
Ireland	2015	1,088	2,116	18	62	3,124	671
	2016	970	1,649	14	-386	2,991	637
	2017	1,063	1,756	15	220	2,584	544
	2018	1,145	1,178	6	332	1,984	412
Italy	2015	73	18,058	378	98	17,655	291
	2016	0	15,663	370	-396	15,689	258
	2017	0	13,705	338	36	13,331	220
	2018	..	12,684	356	131	12,197	201
Kosovo	2015	2,194	10	12	-34	2,225	1,244
	2016	2,343	2	5	-71	2,411	1,357
	2017	2,017	4	4	-9	2,026	1,131
	2018	2,039	3	2	-9	2,049	1,140
Latvia	2015	0	58	2	-10	66	33
	2016	1	54	5	-8	59	30
	2017	1	56	5	-7	59	30
	2018	2	67	9	-8	69	36
Lithuania	2015	30	223	4	-5	253	86
	2016	7	229	2	-23	257	89
	2017	10	271	2	5	274	96
	2018	11	269	2	-13	292	104
Luxembourg	2015	..	70	..	..	70	124
	2016	..	75	..	..	75	130
	2017	..	65	..	..	65	110
	2018	..	61	..	..	61	100
Montenegro	2015	557	2	19	..	540	862
	2016	439	2	13	..	428	682
	2017	464	2	30	..	435	693
	2018	523	2	31	-21	515	820
Netherlands	2015	..	14,906	204	-492	15,195	897
	2016	..	14,261	146	-62	14,178	835
	2017	..	13,446	238	91	13,117	771
	2018	..	11,893	150	-16	11,759	689
North Macedonia	2015	1,252	121	1	16	1,357	653
	2016	1,065	161	0	-18	1,243	597
	2017	1,218	130	0	-33	1,381	663
	2018	1,143	168	1	75	1,235	593

Table 4

Production, trade and supply of coal

Thousand metric tons of coal equivalent and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Norway	2015	1,060	1,080	1,078	-110	1,173	226
	2016	784	1,047	874	-125	1,082	206
	2017	126	1,148	72	-9	1,211	229
	2018	144	1,120	108	-20	1,176	220
Poland	2015	76,974	7,227	14,119	22	70,060	1,842
	2016	74,742	7,198	14,552	-3,943	71,331	1,878
	2017	71,156	11,258	12,405	-1,741	71,751	1,891
	2018	68,685	16,202	10,726	2,870	71,292	1,880
Portugal	2015	..	4,583	..	-71	4,654	449
	2016	..	4,160	..	94	4,066	394
	2017	..	4,869	..	258	4,610	448
	2018	..	3,809	..	-42	3,852	376
Republic of Moldova	2015	..	135	..	-4	139	34
	2016	..	84	..	-21	105	26
	2017	..	172	..	20	152	37
	2018	..	122	..	6	116	29
Romania	2015	6,837	1,508	102	-234	8,478	425
	2016	6,051	1,481	1	-13	7,543	381
	2017	6,383	1,430	0	84	7,729	393
	2018	5,740	1,287	1	-194	7,220	370
Russian Federation	2015	286,103	*20,429	139,806	-2,349	169,076	1,166
	2016	298,801	*20,001	152,746	1,216	164,840	1,135
	2017	317,480	*24,602	168,843	7,695	165,544	1,138
	2018	361,269	*24,127	*203,710	6,648	175,039	1,201
Serbia	2015	10,287	899	11	95	11,080	1,563
	2016	10,287	913	20	-92	11,272	1,593
	2017	10,309	980	23	16	11,250	1,598
	2018	9,442	1,113	21	-215	10,749	1,534
Slovakia	2015	708	4,032	60	-22	4,701	865
	2016	870	3,912	69	-140	4,853	892
	2017	638	4,312	67	49	4,834	887
	2018	522	4,507	56	141	4,831	886
Slovenia	2015	1,232	291	0	-1	1,525	736
	2016	1,170	216	0	-7	1,393	671
	2017	1,334	282	..	-6	1,621	781
	2018	1,288	306	..	-21	1,616	778
Spain	2015	1,780	15,641	865	-2,319	18,876	404
	2016	1,052	11,558	428	-2,507	14,689	315
	2017	1,611	15,931	299	-923	18,166	389
	2018	1,261	13,283	413	-1,678	15,808	339
Sweden	2015	157	2,868	78	-73	3,021	309
	2016	181	3,204	27	409	2,949	300
	2017	161	2,826	29	29	2,929	296
	2018	228	2,932	9	11	3,141	315
Switzerland	2015	..	185	..	1	185	22
	2016	..	162	..	-1	163	19
	2017	..	156	..	-1	157	19
	2018	..	115	..	-31	145	17
Ukraine	2015	24,914	14,199	616	-636	39,133	871
	2016	33,615	15,168	657	815	47,311	1,058
	2017	19,481	18,561	711	573	36,759	826
	2018	20,801	19,723	78	141	40,304	911

Table 4

Production, trade and supply of coal
 Thousand metric tons of coal equivalent and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
United Kingdom	2015	7,307	21,293	440	-5,903	34,063	517
	2016	3,573	9,070	401	-4,618	16,860	254
	2017	2,601	8,801	443	-2,699	13,658	205
	2018	2,208	10,160	554	203	11,610	173
Oceania	2015	429,310	1,279	363,194	2,544	64,852	1,627
	2016	419,301	1,521	360,366	-6,480	66,935	1,655
	2017	420,860	1,535	350,472	4,889	67,034	1,635
	2018	413,223	2,006	352,628	-2,469	65,071	1,565
Australia	2015	426,544	238	361,805	2,784	62,194	2,599
	2016	416,972	233	359,145	-6,325	64,385	2,654
	2017	418,500	270	349,288	5,142	64,341	2,617
	2018	410,631	435	351,384	-2,579	62,260	2,501
New Caledonia	2015	..	729	..	20	708	2,613
	2016	..	960	..	45	914	3,335
	2017	..	927	..	-105	1,033	3,725
	2018	..	1,140	..	*25	1,115	3,981
New Zealand	2015	2,767	312	1,389	-260	1,950	422
	2016	2,329	328	1,222	-200	1,636	351
	2017	2,361	337	1,185	-148	1,661	353
	2018	2,592	431	1,244	84	1,696	357

Table 5

Production, trade and supply of hard coal

Thousand metric tons and kilograms per capita

Table Notes

Production includes production from other sources as defined in the previous table.

Data for China include brown coal.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description/ classification, and xvi to xvii for the descriptions of relevant flows.

Figure 12: Production of hard coal by region, 1990-2018

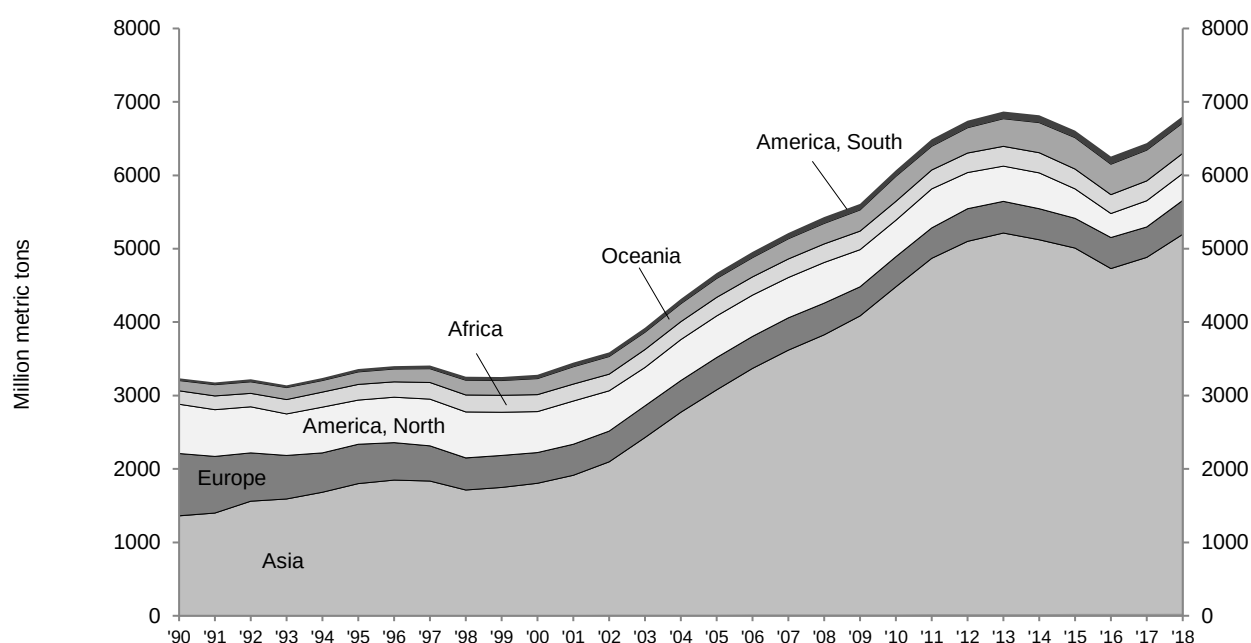


Figure 13: Major hard coal producing countries, 2018

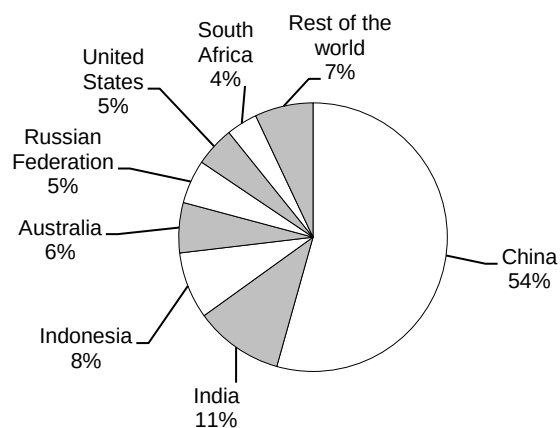


Figure 14: Major hard coal consuming countries, 2018

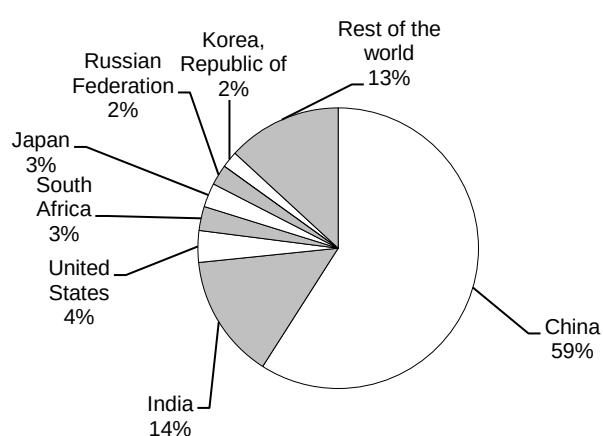


Table 5

Production, trade and supply of hard coal

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
World	2015	6,607,944	1,205,307	1,246,802	-14,331	6,580,780	892
	2016	6,254,000	1,221,128	1,266,846	-184,553	6,392,834	856
	2017	6,439,662	1,287,878	1,333,490	-46,057	6,440,107	853
	2018	6,803,099	1,322,754	1,404,691	33,651	6,687,512	876
Africa	2015	269,299	10,687	80,975	2,796	196,215	166
	2016	259,791	11,530	75,863	-3,447	198,906	164
	2017	271,131	13,249	82,343	1,192	200,845	162
	2018	276,114	14,628	84,268	1,091	205,383	161
Algeria	2015	..	0	..	-11	11	0
	2016	..	0	..	0	0	0
	2017	..	0	..	-5	5	0
	2018	..	12	..	4	8	0
Benin	2015	..	41	..	..	41	4
	2016	..	120	..	..	120	11
	2017	..	127	..	..	127	11
	2018	..	120	..	120	0	0
Botswana	2015	2,085	..	242	*486	1,357	640
	2016	1,874	..	205	*-3	1,672	774
	2017	2,220	..	229	..	1,991	903
	2018	2,482	..	317	..	2,165	960
Burundi	2015	..	0	..	..	0	0
	2016	..	10	..	..	10	1
	2017	..	1	..	..	1	0
	2018	..	0	..	..	0	0
Egypt	2015	..	341	..	..	341	4
	2016	..	387	..	..	387	4
	2017	..	598	..	..	598	6
	2018	..	429	..	*131	298	3
Eswatini	2015	*87	51	*87	..	*51	*46
	2016	158	82	*158	*-11	93	83
	2017	182	61	182	..	61	54
	2018	129	61	129	..	61	54
Ethiopia	2015	..	411	..	..	411	4
	2016	2	526	..	..	528	5
	2017	2	580	..	..	582	5
	2018	2	619	..	..	621	6
Kenya	2015	..	498	..	..	498	10
	2016	..	491	..	..	491	10
	2017	..	463	..	..	463	9
	2018	..	693	..	..	693	13
Lesotho	2015	..	*614	..	..	*614	*298
	2016	..	*590	..	..	*590	*284
	2017	..	*678	..	..	*678	*324
	2018	..	*714	..	..	*714	*339
Madagascar	2015	..	*396	..	..	*396	*16
	2016	..	386	..	..	386	16
	2017	..	549	..	..	549	21
	2018	..	*560	..	..	*560	*21
Malawi	2015	59	34	8	..	85	5
	2016	43	*46	8	..	81	5
	2017	*48	*41	*8	..	*81	*5
	2018	*50	*48	*10	..	*88	*5

Table 5

Production, trade and supply of hard coal

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Mauritius	2015	..	804	..	83	721	572
	2016	..	926	..	191	734	582
	2017	..	1,431	..	671	760	601
	2018	..	1,283	..	561	722	570
Morocco	2015	..	6,460	..	-275	6,735	191
	2016	..	6,724	..	234	6,490	182
	2017	..	6,809	..	63	6,746	187
	2018	..	8,460	..	976	7,484	205
Mozambique	2015	6,600	..	4,809	*1,617	175	6
	2016	5,462	..	7,903	*-2,462	21	1
	2017	11,777	..	11,777	-37	37	1
	2018	12,337	..	13,266	-977	48	2
Namibia	2015	..	4	..	..	4	2
	2016	..	34	..	..	34	14
	2017	..	42	..	..	42	17
	2018	..	22	..	9	13	5
Niger	2015	221	..	..	-4	225	11
	2016	247	..	..	0	247	12
	2017	224	..	..	0	224	10
	2018	276	..	..	..	276	12
Nigeria	2015	47	..	..	..	47	0
	2016	46	..	..	..	46	0
	2017	46	..	..	..	46	0
	2018	47	..	..	..	47	0
Senegal	2015	..	490	..	..	490	34
	2016	..	514	..	..	514	34
	2017	..	613	..	..	613	40
	2018	..	963	..	..	963	61
South Africa	2015	255,425	519	75,830	..	180,114	3,252
	2016	249,719	661	67,538	..	182,842	3,253
	2017	252,343	1,226	70,049	..	183,520	3,219
	2018	255,641	633	70,431	..	185,843	3,216
United Rep. of Tanzania	2015	257	..	..	..	257	5
	2016	276	..	..	..	276	5
	2017	563	..	..	..	563	10
	2018	628	..	..	..	628	11
Zambia	2015	159	..	..	..	159	10
	2016	328	..	..	..	328	20
	2017	797	..	..	..	797	47
	2018	1,174	..	..	..	1,174	68
Zimbabwe	2015	4,360	24	0	900	3,484	252
	2016	1,636	33	50	-1,396	3,015	215
	2017	2,929	30	98	500	2,361	166
	2018	3,348	11	115	267	2,977	206
America, North	2015	401,196	25,295	91,952	6,857	327,682	577
	2016	327,054	22,188	82,016	-26,181	293,406	512
	2017	356,345	22,924	111,043	-10,459	278,685	483
	2018	366,232	20,788	131,407	-10,526	266,139	457
Bermuda	2015	..	0	..	..	0	4
	2016	..	0	..	..	0	8
	2017	..	0	..	..	0	4
	2018	..	3	..	..	3	50

Table 5

Production, trade and supply of hard coal

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Canada	2015	29,826	6,050	30,200	-1,020	6,696	186
	2016	27,761	5,047	30,231	-2,938	5,515	152
	2017	31,508	6,075	30,918	1,270	5,395	147
	2018	35,667	6,303	33,476	1,875	6,619	179
Costa Rica	2015	..	1	..	..	1	0
	2016	..	1	..	..	1	0
	2017	..	7	..	..	7	1
	2018	..	0	..	..	0	0
Cuba	2015	..	7	..	..	7	1
	2016	..	2	..	..	2	0
	2017	..	4	..	..	4	0
	2018	..	4	..	..	4	0
Dominican Republic	2015	..	1,115	..	26	1,089	106
	2016	..	1,122	..	39	1,084	104
	2017	..	1,255	..	-5	1,260	120
	2018	..	1,263	..	24	1,238	117
Guatemala	2015	..	2,232	..	697	1,535	94
	2016	..	2,045	..	242	1,803	109
	2017	..	1,633	..	137	1,496	88
	2018	..	1,807	..	40	1,767	102
Honduras	2015	..	129	..	..	129	14
	2016	..	58	..	..	58	6
	2017	..	1	..	..	1	0
	2018	..	..	..	..	..	..
Jamaica	2015	..	108	..	7	101	35
	2016	..	98	..	1	98	34
	2017	..	96	..	14	82	28
	2018	..	106	..	19	87	30
Mexico	2015	3,186	7,245	3	-67	10,495	86
	2016	4,437	6,656	2	3	11,088	90
	2017	4,605	8,178	3	-915	13,695	110
	2018	4,775	7,270	5	193	11,847	94
Panama	2015	..	354	..	..	354	89
	2016	..	313	..	..	313	78
	2017	..	87	..	..	87	21
	2018	..	219	..	..	219	52
United States	2015	368,184	8,055	61,749	7,215	307,275	958
	2016	294,856	6,845	51,783	-23,527	273,445	847
	2017	320,232	5,588	80,122	-10,959	256,657	790
	2018	325,790	3,813	97,926	-12,677	244,354	747
America, South	2015	96,133	32,553	74,519	2,047	52,120	126
	2016	101,236	33,283	85,067	-1,328	50,780	122
	2017	98,614	34,794	104,344	-20,650	49,714	118
	2018	91,855	34,477	84,805	-7,256	48,783	115
Argentina	2015	34	1,988	12	-98	2,108	49
	2016	24	1,602	9	-16	1,633	38
	2017	20	1,510	0	-131	1,661	38
	2018	60	1,696	2	86	1,668	38
Bolivia (Plur. State of)	2015	..	6	..	..	6	1
	2016	..	6	..	..	6	1
	2017	..	10	..	..	10	1
	2018	..	8	..	..	8	1

Table 5

Production, trade and supply of hard coal

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Brazil	2015	6,354	20,273	..	-679	27,306	134
	2016	7,006	19,503	..	860	25,649	124
	2017	4,819	21,207	..	162	25,864	124
	2018	4,838	20,986	..	409	25,415	121
Chile	2015	3,143	9,894	844	0	12,193	679
	2016	2,525	11,585	870	281	12,959	712
	2017	2,425	11,595	914	-131	13,237	717
	2018	2,257	11,463	422	220	13,078	698
Colombia	2015	85,548	..	72,788	3,571	9,189	193
	2016	90,512	..	83,325	-2,007	9,194	191
	2017	90,549	..	102,689	-19,964	7,824	160
	2018	84,284	..	83,593	-6,970	7,661	154
Paraguay	2015	..	4	..	..	4	1
	2016	..	2	..	..	2	0
	2017	..	1	..	..	1	0
	2018	..	5	..	..	5	1
Peru	2015	252	388	253	-747	1,134	37
	2016	269	585	165	-446	1,135	37
	2017	301	471	353	-586	1,005	32
	2018	216	319	633	-1,001	903	28
Venezuela (Bolivar. Rep.)	2015	802	..	622	..	180	6
	2016	900	..	698	..	202	7
	2017	500	..	388	..	112	4
	2018	200	..	155	..	45	2
Asia	2015	5,007,729	906,127	437,429	-13,057	5,489,484	1,238
	2016	4,731,221	943,627	452,221	-131,679	5,354,307	1,196
	2017	4,880,265	993,638	463,166	-26,780	5,437,517	1,203
	2018	5,197,664	1,034,914	492,835	47,458	5,692,285	1,248
Afghanistan	2015	1,365	..	425	..	940	27
	2016	1,698	..	733	..	965	27
	2017	2,191	..	1,014	..	1,177	32
	2018	2,445	..	1,117	..	1,328	36
Armenia	2015	..	1	..	..	1	0
	2016	..	1	..	..	1	0
	2017	..	1	..	..	1	0
	2018	..	1	..	..	1	0
Azerbaijan	2015	..	1	..	-4	5	1
	2016	..	1	..	-1	2	0
	2017	..	2	..	0	2	0
	2018	..	1	..	..	1	0
Bangladesh	2015	676	3,651	..	-197	4,524	29
	2016	1,022	2,184	..	..	3,206	20
	2017	1,161	2,614	..	..	3,775	24
	2018	923	3,395	..	..	4,318	27
Bhutan	2015	85	..	5	..	80	110
	2016	118	..	0	..	118	160
	2017	162	..	19	..	143	191
	2018	162	*25	..	..	187	248
China	2015	3,746,542	204,065	5,338	-25,469	3,970,738	2,822
	2016	3,410,604	255,553	8,790	-127,576	3,784,943	2,677
	2017	3,523,562	270,933	8,088	-34,531	3,820,938	2,689
	2018	3,697,736	282,098	4,936	26,418	3,948,480	2,766

Table 5

Production, trade and supply of hard coal

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
China, Hong Kong SAR	2015	..	11,184	0	555	10,629	1,479
	2016	..	11,161	0	531	10,630	1,468
	2017	..	10,503	..	545	9,958	1,363
	2018	..	10,884	..	658	10,226	1,387
Cyprus	2015	..	6	..	0	6	5
	2016	..	0	..	0	0	0
	2017	..	17	..	11	6	5
	2018	..	22	..	-1	23	19
Georgia	2015	..	121	0	-12	133	33
	2016	..	104	0	9	95	24
	2017	..	162	0	18	144	36
	2018	..	258	..	32	226	56
India	2015	639,230	203,949	1,250	5,404	836,525	638
	2016	657,868	190,953	1,773	-11,924	858,972	649
	2017	675,400	208,273	1,503	-15,905	898,075	671
	2018	728,720	235,240	1,313	4,401	958,246	708
Indonesia	2015	427,280	2,813	366,970	-2,069	65,192	252
	2016	456,000	3,564	369,576	-456	90,444	346
	2017	461,000	4,352	389,538	355	75,459	285
	2018	548,000	5,358	429,061	-1,030	125,327	468
Iran (Islamic Rep. of)	2015	1,206	397	183	..	1,420	18
	2016	1,115	334	103	..	1,346	17
	2017	1,521	362	68	..	1,815	22
	2018	1,646	302	228	..	1,720	21
Israel	2015	..	11,042	..	6	11,036	1,383
	2016	..	8,795	..	-390	9,185	1,133
	2017	..	8,516	..	237	8,279	1,004
	2018	..	7,721	..	-259	7,980	952
Japan	2015	1,265	189,239	2	..	190,502	1,488
	2016	1,288	185,891	2	..	187,177	1,465
	2017	1,328	186,870	3	..	188,195	1,476
	2018	1,328	183,724	32	..	185,020	1,455
Jordan	2015	..	262	..	..	262	28
	2016	..	326	..	..	326	34
	2017	..	196	..	..	196	20
	2018	..	264	..	..	264	26
Kazakhstan	2015	93,072	14	27,674	465	64,947	3,696
	2016	92,840	24	23,789	1,974	67,100	3,763
	2017	101,796	4	26,986	2,053	72,761	4,024
	2018	101,086	441	23,877	-448	78,097	4,263
Korea, Dem.Ppl's.Rep.	2015	24,960	953	19,863	..	6,050	240
	2016	29,071	1,240	22,586	..	7,725	305
	2017	19,739	706	*4,906	*10,262	5,277	208
	2018	16,478	..	..	*12,660	3,818	149
Korea, Republic of	2015	1,764	127,080	..	1,778	127,066	2,500
	2016	1,726	127,892	..	1,277	128,341	2,517
	2017	1,486	129,113	..	-300	130,899	2,562
	2018	1,140	125,749	..	-336	127,225	2,486
Kyrgyzstan	2015	345	1,371	227	-26	1,515	254
	2016	248	794	250	-119	911	150
	2017	247	926	208	44	921	149
	2018	324	819	394	2	747	118

Table 5

Production, trade and supply of hard coal

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Lao People's Dem. Rep.	2015	136	..	0	..	136	20
	2016	139	..	0	..	139	20
	2017	133	..	0	..	133	19
	2018	143	..	0	..	143	20
Lebanon	2015	..	*250	..	..	*250	*38
	2016	..	*250	..	..	*250	*37
	2017	..	*250	..	..	*250	*37
	2018	..	*250	..	..	*250	*36
Malaysia	2015	2,559	25,461	248	15	27,757	917
	2016	2,415	27,146	24	-198	29,735	969
	2017	2,989	30,426	607	-91	32,899	1,058
	2018	2,653	32,904	0	339	35,218	1,117
Mongolia	2015	18,451	1	13,303	530	4,618	1,540
	2016	28,851	1	23,680	-54	5,225	1,710
	2017	41,362	2	28,553	4,416	8,395	2,696
	2018	44,386	2	31,472	-388	13,304	4,196
Myanmar	2015	420	0	20	..	400	8
	2016	550	0	16	..	534	10
	2017	737	0	0	..	737	14
	2018	820	..	..	..	820	15
Nepal	2015	22	907	..	..	929	34
	2016	22	1,127	..	..	1,149	42
	2017	24	1,294	..	..	1,318	48
	2018	25	1,380	..	..	1,405	50
Other Asia	2015	..	54,552	1	803	53,748	2,282
	2016	..	53,101	1	-1,121	54,221	2,296
	2017	..	55,287	1	349	54,937	2,321
	2018	..	54,947	1	-904	55,850	2,354
Pakistan	2015	4,142	4,885	..	..	9,027	45
	2016	4,165	7,021	..	..	11,186	55
	2017	3,954	13,684	..	..	17,638	85
	2018	4,478	15,686	..	..	20,164	95
Singapore	2015	..	659	0	..	659	118
	2016	..	692	1	..	691	122
	2017	..	1,458	1	*680	778	136
	2018	..	787	1	..	786	137
Sri Lanka	2015	..	1,882	..	*-85	1,967	94
	2016	..	2,405	..	323	2,082	99
	2017	..	2,527	..	*370	2,157	102
	2018	..	2,166	..	82	2,084	98
Tajikistan	2015	985	13	0	..	998	118
	2016	1,275	10	0	..	1,285	148
	2017	1,707	6	5	..	1,708	192
	2018	1,842	7	43	..	1,805	198
Thailand	2015	..	23,964	21	3,512	20,431	297
	2016	..	22,581	34	4,972	17,575	255
	2017	..	23,262	45	3,805	19,412	280
	2018	..	25,739	84	6,448	19,207	277
Turkey	2015	1,435	33,979	151	444	34,819	443
	2016	1,313	36,216	61	444	37,024	464
	2017	1,234	38,252	100	506	38,880	479
	2018	1,102	38,329	85	-200	39,546	480

Table 5

Production, trade and supply of hard coal

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
United Arab Emirates	2015	..	2,578	0	..	2,578	278
	2016	..	2,782	0	..	2,782	297
	2017	..	3,214	1	..	3,212	339
	2018	..	2,870	0	..	2,870	298
Uzbekistan	2015	127	142	0	0	268	9
	2016	160	206	0	-37	403	13
	2017	124	203	0	-15	342	11
	2018	181	580	..	-17	778	24
Viet Nam	2015	41,664	551	*1,748	1,293	39,174	423
	2016	38,735	1,139	802	667	38,405	410
	2017	38,409	97	1,521	411	36,574	387
	2018	42,047	2,842	190	..	44,699	468
Yemen	2015	..	156	..	..	156	6
	2016	..	135	..	..	135	5
	2017	..	127	..	..	127	5
	2018	..	124	..	..	124	4
Europe	2015	407,872	229,668	168,253	-15,997	485,284	651
	2016	420,736	209,314	181,192	-15,005	463,862	621
	2017	416,826	222,050	192,514	5,191	441,171	590
	2018	458,946	216,358	228,181	5,637	441,486	590
Albania	2015	69	102	0	..	171	59
	2016	4	81	..	..	85	30
	2017	46	107	30	..	123	43
	2018	98	129	2	..	224	78
Andorra	2015	..	0	..	..	0	*1
	2016	..	0	..	..	0	*2
	2017	..	0	..	..	0	*2
	2018	..	0	..	..	0	*1
Austria	2015	..	3,028	11	-631	3,648	420
	2016	..	3,282	0	-249	3,531	404
	2017	..	3,386	1	11	3,374	383
	2018	..	3,087	3	-131	3,215	362
Belarus	2015	..	675	41	-46	680	72
	2016	..	724	36	70	618	65
	2017	..	762	167	-49	644	68
	2018	..	1,592	825	145	622	66
Belgium	2015	15	4,088	79	-156	4,180	370
	2016	14	3,531	65	-223	3,703	326
	2017	16	3,428	81	-210	3,573	313
	2018	16	3,832	46	233	3,569	311
Bosnia and Herzegovina	2015	..	1,359	36	49	1,274	371
	2016	..	1,302	0	64	1,238	366
	2017	..	1,361	0	91	1,270	379
	2018	..	1,457	..	0	1,457	438
Bulgaria	2015	51	1,061	0	-3	1,115	155
	2016	52	762	0	-87	901	126
	2017	41	898	0	15	924	130
	2018	334	836	..	166	1,004	142
Croatia	2015	..	974	..	23	951	225
	2016	..	1,045	..	25	1,020	242
	2017	..	589	..	5	584	140
	2018	..	499	..	-50	549	132

Table 5

Production, trade and supply of hard coal

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Czechia	2015	8,426	3,145	3,565	125	7,881	743
	2016	7,015	3,565	3,516	-824	7,888	743
	2017	5,601	3,844	2,414	-108	7,139	671
	2018	4,562	3,808	1,954	-140	6,556	615
Denmark	2015	..	2,757	92	-471	3,136	551
	2016	..	2,886	21	-522	3,387	593
	2017	..	3,074	..	423	2,651	462
	2018	..	2,756	17	54	2,685	467
Estonia	2015	..	7	0	-22	29	22
	2016	..	23	..	-4	27	21
	2017	..	45	..	-3	48	36
	2018	..	44	..	-6	50	38
Finland	2015	..	3,601	..	-451	4,052	739
	2016	..	4,012	..	-872	4,884	888
	2017	..	3,970	..	-445	4,415	801
	2018	..	4,109	..	-32	4,141	750
France	2015	0	13,318	0	-426	13,744	206
	2016	0	12,566	0	-1,036	13,602	203
	2017	..	14,911	..	96	14,815	221
	2018	..	13,207	..	181	13,026	194
Germany	2015	6,649	54,528	179	-551	61,549	753
	2016	4,078	57,757	278	1,067	60,490	736
	2017	3,836	50,486	222	552	53,548	648
	2018	2,761	44,816	202	-3,322	50,697	610
Greece	2015	..	257	..	-24	281	26
	2016	..	312	..	-21	333	31
	2017	..	411	..	35	376	36
	2018	..	379	..	-55	434	41
Hungary	2015	..	1,373	..	-10	1,383	141
	2016	..	1,384	..	-17	1,401	144
	2017	..	1,545	..	27	1,518	156
	2018	..	1,542	..	41	1,501	155
Iceland	2015	..	116	..	..	116	351
	2016	..	124	..	..	124	373
	2017	..	127	..	..	127	380
	2018	..	131	..	-13	144	428
Ireland	2015	..	2,394	13	67	2,314	497
	2016	..	1,912	10	-338	2,240	477
	2017	..	1,986	12	186	1,788	376
	2018	..	1,328	..	161	1,167	242
Italy	2015	81	19,186	82	174	19,011	314
	2016	0	16,577	0	-337	16,914	279
	2017	0	15,226	0	40	15,186	250
	2018	..	14,149	3	170	13,976	230
Kosovo	2015	..	12	0	..	12	7
	2016	..	2	0	..	2	1
	2017	..	2	..	..	2	1
	2018	..	1	..	..	1	1
Latvia	2015	..	71	2	-12	81	41
	2016	..	67	6	-10	71	36
	2017	..	68	6	-8	70	36
	2018	..	82	10	-7	79	41

Table 5

Production, trade and supply of hard coal

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Lithuania	2015	..	227	0	-25	252	86
	2016	..	225	0	-21	246	85
	2017	..	272	..	23	249	88
	2018	..	262	..	-3	265	95
Luxembourg	2015	..	73	..	..	73	129
	2016	..	81	..	..	81	140
	2017	..	68	..	..	68	115
	2018	..	64	..	..	64	106
Netherlands	2015	..	17,384	..	-593	17,977	1,061
	2016	..	16,350	..	-128	16,478	970
	2017	..	14,870	..	189	14,681	863
	2018	..	13,021	..	-61	13,082	767
North Macedonia	2015	..	15	0	3	12	6
	2016	..	27	0	-3	29	14
	2017	..	33	0	0	33	16
	2018	..	101	1	10	91	43
Norway	2015	1,106	693	1,124	-113	788	152
	2016	818	660	912	-146	712	136
	2017	131	781	75	5	832	157
	2018	150	746	113	-10	793	149
Poland	2015	72,686	8,289	9,191	-137	71,921	1,891
	2016	70,783	8,299	9,096	-4,732	74,718	1,967
	2017	65,975	12,855	7,089	-2,043	73,784	1,944
	2018	63,857	19,244	4,907	3,360	74,834	1,973
Portugal	2015	..	5,420	..	-84	5,504	531
	2016	..	4,911	..	110	4,801	465
	2017	..	5,712	..	304	5,408	526
	2018	..	4,496	..	-50	4,546	443
Republic of Moldova	2015	..	166	..	-5	171	42
	2016	..	99	..	-26	125	31
	2017	..	200	..	24	176	43
	2018	..	144	..	7	137	34
Romania	2015	..	124	0	-4	128	6
	2016	..	157	0	21	136	7
	2017	..	194	0	4	190	10
	2018	..	185	..	6	179	9
Russian Federation	2015	278,033	*22,609	151,870	-2,193	150,965	1,041
	2016	292,862	*21,723	165,835	698	148,052	1,019
	2017	312,811	*26,722	181,022	9,643	148,868	1,023
	2018	358,614	*26,065	*219,125	7,430	158,124	1,085
Serbia	2015	..	219	1	12	206	29
	2016	..	179	0	-10	189	27
	2017	..	151	..	1	150	21
	2018	..	260	..	-2	262	37
Slovakia	2015	..	3,663	..	-102	3,765	693
	2016	..	3,557	..	-109	3,666	674
	2017	..	3,808	..	4	3,804	698
	2018	..	3,962	..	42	3,920	719
Slovenia	2015	..	15	0	3	12	6
	2016	..	13	0	2	11	5
	2017	..	11	..	..	11	5
	2018	..	10	..	-1	11	5

Table 5

Production, trade and supply of hard coal

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Spain	2015	1,747	18,735	1,088	-2,743	22,137	474
	2016	1,070	13,830	453	-3,365	17,812	382
	2017	1,161	19,089	264	-1,235	21,221	455
	2018	771	15,773	276	-2,668	18,936	406
Sweden	2015	..	2,791	0	-11	2,802	287
	2016	..	3,100	0	427	2,673	272
	2017	..	2,731	..	130	2,601	263
	2018	..	2,718	..	-78	2,796	280
Switzerland	2015	..	76	..	-1	77	9
	2016	..	47	..	-4	51	6
	2017	..	52	..	-2	54	6
	2018	..	15	..	-38	53	6
Ukraine	2015	30,411	14,598	494	-770	45,285	1,008
	2016	39,862	15,648	520	1,142	53,848	1,204
	2017	24,167	19,778	636	645	42,664	959
	2018	25,202	21,387	63	140	46,386	1,048
United Kingdom	2015	8,598	22,518	385	-6,869	37,600	571
	2016	4,178	8,494	444	-5,547	17,775	268
	2017	3,041	8,497	495	-3,159	14,202	213
	2018	2,581	10,121	634	158	11,910	177
Oceania	2015	425,714	977	393,674	3,023	29,994	753
	2016	413,961	1,186	390,488	-6,913	31,572	781
	2017	416,481	1,222	380,080	5,450	32,174	785
	2018	412,288	1,588	383,194	-2,753	33,436	804
Australia	2015	424,313	125	392,348	3,026	29,064	1,214
	2016	412,756	30	389,301	-6,884	30,369	1,252
	2017	415,269	103	378,938	5,593	30,841	1,254
	2018	410,934	228	381,944	-2,807	32,025	1,286
New Caledonia	2015	..	821	..	23	798	2,945
	2016	..	1,082	..	51	1,031	3,759
	2017	..	1,045	..	-119	1,164	4,199
	2018	..	1,285	..	*29	1,257	4,488
New Zealand	2015	1,401	31	1,326	-26	132	29
	2016	1,205	74	1,187	-80	172	37
	2017	1,212	74	1,142	-25	169	36
	2018	1,354	75	1,250	25	154	32

Table 6

International trade of hard coal
(Principal importers/exporters)

Thousand metric tons

2017

Importers	Exporters					
	World	Australia	Canada	Colombia	Indonesia	Kazakhstan
Austria	3,386	410	..	..	..	..
Belgium	3,428	1,265	..	29	..	..
Brazil	21,207	6,322	926	5,552	68	..
Canada	6,075	..	..	985	..	..
Chile	11,595	2,310	188	7,421	..	..
China	270,933	79,913	4,748	7	35,278	..
China, Hong Kong SAR	10,503	304	..	..	8,236	..
Denmark	3,074	..	..	483	..	..
Finland	3,970	..	668	..	..	126
France	14,911	3,912	192	2,083	..	..
Germany	50,486	5,635	1,481	6,173	1	31
India	208,273	43,892	3,085	331	93,931	..
Israel	8,516	..	..	3,922	..	..
Italy	15,226	357	303	3,336	871	706
Japan	186,870	120,885	3,076	2,199	32,780	159
Korea, Republic of	129,113	48,413	9,268	2,587	31,123	..
Malaysia	30,426	6,620	..	..	20,190	..
Mexico	8,178	..	192	6,514	..	..
Morocco	6,809	..	..	32	..	..
Netherlands	14,870	2,151	176	2,210	202	53
Pakistan	13,684	51	..	..	1,418	..
Poland	12,855	1,731	270	702	..	94
Portugal	5,712	..	..	4,510	..	..
Russian Federation	26,722	..	..	40	..	19,891
Slovakia	3,808	..	168	30	..	..
Spain	19,089	1,021	194	4,570	4,257	..
Thailand	23,262	3,457	..	161	16,162	..
Turkey	38,252	1,087	486	17,337	160	..
Ukraine	19,778	403	200	..	77	409
United Kingdom	8,497	749	36	731	..	103
United States	5,588	1	712	4,212	578	..

International trade of hard coal
(Principal importers/exporters)

Thousand metric tons

2017

Exporters					
Mongolia	Poland	Russian Federation	South Africa	United States	Viet Nam
..	1,303	176	..	523	..
..	..	1,191	76	701	..
..	..	2,308	835	5,195	..
..	..	147	..	4,932	..
..	..	75	..	1,599	..
28,450	..	25,307	..	2,780	254
..	..	1,520	..	..	..
..	5	1,779	610	169	..
..	59	2,603	..	476	..
..	8	4,053	1,709	2,420	..
..	1,240	19,007	1,627	9,060	..
..	..	3,916	34,904	10,323	96
..	..	3,003	1,166	..	..
..	..	5,509	1,123	2,908	..
71	..	18,789	73	5,823	770
..	..	24,322	5,474	4,240	124
..	..	2,705	585	..	16
..	..	1	..	1,446	..
..	..	3,504	765	2,223	..
..	0	5,013	814	2,896	5
..	..	321	7,240	119	..
..	..	8,611	..	768	..
..	..	297	163	740	..
..	..	..	..	..	..
..	710	1,182	..	337	..
..	9	4,969	1,432	1,768	..
..	..	1,363	79	123	146
..	73	14,390	2,219	1,911	..
..	651	13,251	714	4,049	..
..	28	3,884	50	2,352	..
..	..	31	34	..	..

Table 6

International trade of hard coal (Principal importers/exporters)

Thousand metric tons

2018

Importers	Exporters					
	World	Australia	Canada	Colombia	Indonesia	Kazakhstan
Austria	3,087	190	..	22	..	..
Belgium	3,832	1,189	..	17	..	..
Brazil	20,986	5,805	855	5,984	..	..
Canada	6,303	..	..	1,234	..	..
Chile	11,463	1,027	194	8,202	..	..
China	282,098	88,712	3,129	334	37,612	..
China, Hong Kong SAR	10,884	306	123	..	8,889	..
Denmark	2,756	..	..	247	..	..
Finland	4,109	130	600	5	..	..
France	13,207	3,754	91	1,515	..	..
Germany	44,816	5,162	1,552	3,786	..	87
India	235,240	48,170	4,453	508	103,346	..
Israel	7,721	..	..	..	..	..
Italy	14,149	436	210	2,847	..	623
Japan	183,724	118,027	3,207	822	30,987	..
Korea, Republic of	125,749	47,555	9,108	2,431	30,168	..
Malaysia	32,904	6,215	81	88	16,458	..
Mexico	7,270	..	..	5,531	..	..
Morocco	8,460	..	..	71	..	..
Netherlands	13,021	2,160	129	1,097	72	187
Pakistan	15,686	..	59	100	3,399	..
Poland	19,244	1,478	214	1,460	18	504
Portugal	4,496	..	45	3,684	..	..
Russian Federation	26,065	..	..	45	..	18,070
Slovakia	3,962	..	364	35	..	..
Spain	15,773	1,334	73	3,421	4,494	..
Thailand	25,739	3,805	..	5	19,994	..
Turkey	38,329	2,048	445	18,946	..	..
Ukraine	21,387	80	360	..	..	422
United Kingdom	10,121	630	..	635	..	..
United States	3,813	..	618	2,290	721	..

International trade of hard coal
(Principal importers/exporters)

Thousand metric tons

2018

Exporters					
Mongolia	Poland	Russian Federation	South Africa	United States	Viet Nam
..	1,373	214	..	508	..
..	..	1,531	198	762	..
..	..	2,607	..	5,735	..
..	..	120	..	4,921	..
..	..	..	..	2,037	..
31,470	..	26,220	..	2,036	173
..	..	1,362	..	..	..
..	..	1,878	526	45	..
..	..	2,713	..	634	..
..	1	4,159	810	1,915	..
..	246	19,037	1,044	9,747	..
..	..	4,321	33,986	15,509	..
..	..	..	..	..	..
..	..	5,079	296	3,521	..
..	..	19,471	155	8,426	..
..	..	22,828	5,371	4,869	..
..	..	2,069	7,991	1	..
..	..	8	..	1,706	..
..	..	3,911	484	3,888	..
..	..	5,032	107	3,863	..
..	..	494	9,565	174	..
..	..	13,054	..	1,535	..
..	..	71	..	692	..
..	..	..	..	..	..
..	629	1,532	..	213	..
..	18	3,645	890	1,457	..
..	..	549	..	456	..
..	..	12,339	1,596	2,694	..
..	313	15,009	245	4,370	..
..	3	4,694	118	3,573	..
..	..	72	43	..	..

Production, trade and supply of brown coal and oil shale

Thousand metric tons and kilograms per capita

Table Notes

Data refer to brown coal and oil shale.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description/ classification, and xvi to xvii for the descriptions of relevant flows.

Figure 15: Production of brown coal and oil shale by region, 1990-2018

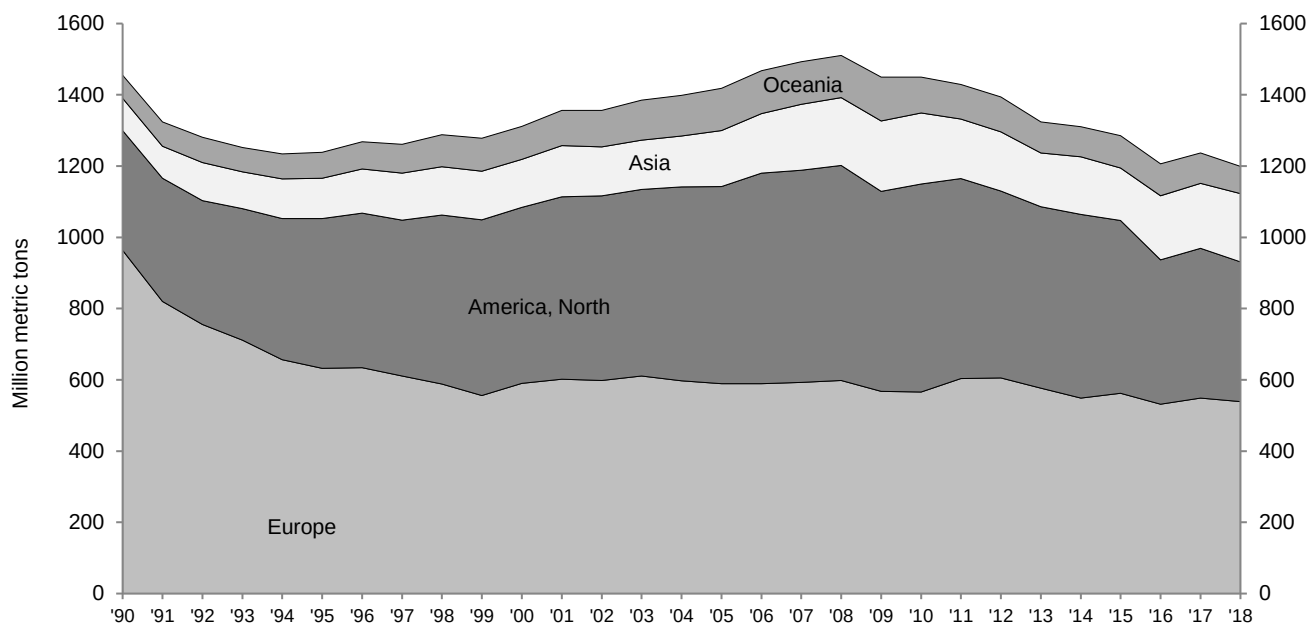


Figure 16: Major brown coal producing countries, 2018

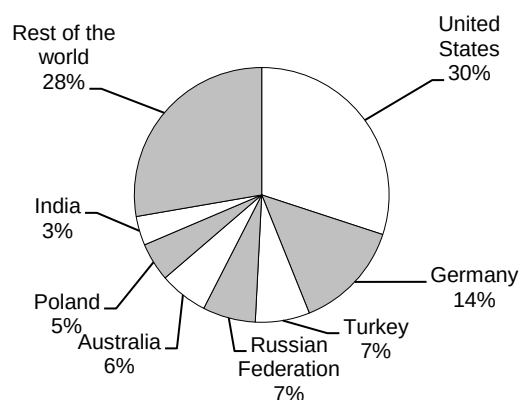


Figure 17: Major brown coal consuming countries, 2018

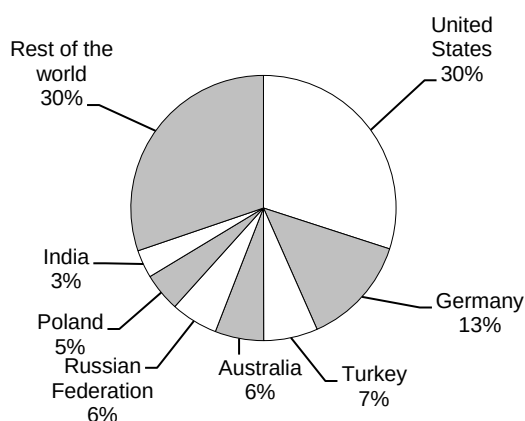


Table 7

Production, trade and supply of brown coal and oil shale

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
World	2015	1,285,091	48,975	17,638	33,810	1,282,618	174
	2016	1,206,026	52,866	19,527	-19,398	1,258,764	169
	2017	1,237,057	58,404	27,458	-8,519	1,276,523	169
	2018	1,199,129	60,630	28,437	-17,807	1,249,129	164
America, North	2015	485,515	4,194	5,460	30,680	453,569	799
	2016	405,533	4,986	2,994	-18,794	426,319	744
	2017	419,855	5,049	7,968	-6,865	423,801	734
	2018	392,279	4,891	7,265	-17,704	407,609	700
Canada	2015	32,518	1,518	116	529	33,391	927
	2016	31,499	1,272	101	-92	32,762	900
	2017	30,201	1,404	135	-669	32,139	875
	2018	24,620	1,292	291	95	25,526	689
Mexico	2015	7,491	462	..	-706	8,659	71
	2016	8,130	1,624	..	450	9,304	75
	2017	7,171	2,178	..	2,874	6,475	52
	2018	7,466	2,010	..	1,979	7,497	59
United States	2015	445,506	2,214	5,344	30,857	411,519	1,282
	2016	365,904	2,090	2,893	-19,152	384,253	1,190
	2017	382,483	1,467	7,833	-9,070	385,187	1,185
	2018	360,193	1,589	6,974	-19,778	374,586	1,145
Asia	2015	147,601	37,536	5,520	1,265	178,353	40
	2016	179,698	41,707	9,576	4,409	207,420	46
	2017	182,188	47,162	9,089	313	219,949	49
	2018	192,035	49,847	8,793	2,481	230,608	51
Bangladesh	2015	..	32	..	..	32	0
	2016	..	0	..	..	0	0
	2017	..	..	..	..	..	..
	2018	..	..	..	..	..	..
Cambodia	2015	..	1,235	..	..	1,235	80
	2016	..	1,429	..	..	1,429	91
	2017	56	1,954	..	-114	2,124	133
	2018	60	1,180	..	..	1,240	76
Georgia	2015	306	..	2	1	303	75
	2016	297	..	2	9	286	71
	2017	268	..	2	2	264	66
	2018	138	..	2	-2	138	34
India	2015	43,843	0	0	1,631	42,212	32
	2016	45,230	19	5	-2,074	47,318	36
	2017	46,255	10	4	327	45,934	34
	2018	44,283	19	40	1,538	42,724	32
Israel	2015	420	..	..	..	420	53
	2016	423	..	..	..	423	52
	2017	449	..	..	..	449	54
	2018	415	..	..	..	415	50
Kazakhstan	2015	5,526	0	2,357	496	2,673	152
	2016	5,750	1	2,204	177	3,370	189
	2017	6,095	..	2,231	554	3,310	183
	2018	6,561	0	2,757	5	3,799	207
Korea, Dem.Ppl's.Rep.	2015	2,530	..	..	..	2,530	100
	2016	2,755	..	..	..	2,755	109
	2017	1,921	..	..	..	1,921	76
	2018	1,602	..	..	..	1,602	63

Table 7

Production, trade and supply of brown coal and oil shale

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Korea, Republic of	2015	..	6,824	..	..	6,824	134
	2016	..	6,569	..	..	6,569	129
	2017	..	9,769	..	..	9,769	191
	2018	..	9,828	..	..	9,828	192
Kyrgyzstan	2015	1,584	9	10	477	1,106	186
	2016	1,603	5	91	225	1,292	213
	2017	1,624	3	272	139	1,216	196
	2018	2,071	4	367	-185	1,893	300
Lao People's Dem. Rep.	2015	4,658	..	0	..	4,658	691
	2016	13,097	..	..	*3,163	9,934	1,451
	2017	13,440	..	..	*-114	13,554	1,949
	2018	15,903	..	..	*-135	16,039	2,271
Mongolia	2015	5,755	..	46	-80	5,789	1,931
	2016	6,672	..	427	-160	6,404	2,095
	2017	6,783	..	406	58	6,320	2,030
	2018	7,015	..	571	-20	6,465	2,039
Myanmar	2015	54	..	..	..	54	1
	2016	233	437	13	..	657	12
	2017	274	0	0	..	274	5
	2018	486	..	..	..	486	9
Other Asia	2015	..	11,429	..	28	11,401	484
	2016	..	12,532	..	1,443	11,089	470
	2017	..	12,304	..	470	11,834	500
	2018	..	11,566	..	-313	11,879	501
Philippines	2015	7,378	17,279	3,106	-455	22,006	216
	2016	11,211	20,030	6,835	-388	24,794	239
	2017	11,932	22,268	6,172	-1,292	29,320	279
	2018	11,755	26,301	5,055	2,025	30,977	290
Tajikistan	2015	57	..	..	..	57	7
	2016	50	..	..	..	50	6
	2017	53	1	..	..	54	6
	2018	65	1	..	..	66	7
Thailand	2015	15,151	..	..	-239	15,390	224
	2016	16,979	55	..	92	16,942	246
	2017	16,259	193	..	163	16,289	235
	2018	14,852	226	..	491	14,587	210
Turkey	2015	56,979	..	..	-716	57,695	735
	2016	71,691	..	..	2,184	69,507	871
	2017	72,864	..	1	-72	72,935	899
	2018	82,835	..	1	353	82,481	1,002
Uzbekistan	2015	3,361	727	0	121	3,967	128
	2016	3,707	630	0	-263	4,600	146
	2017	3,915	660	0	193	4,383	137
	2018	3,993	722	0	-1,275	5,990	184
Europe	2015	561,867	6,843	6,615	2,216	559,879	751
	2016	531,547	5,795	6,957	-4,833	535,218	717
	2017	549,110	5,801	10,357	-1,783	546,337	731
	2018	538,775	5,366	12,352	-2,673	534,463	714
Austria	2015	..	94	0	0	94	11
	2016	..	79	0	0	79	9
	2017	..	76	..	..	76	9
	2018	..	80	..	..	80	9

Table 7

Production, trade and supply of brown coal and oil shale

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Belgium	2015	91	10	1	1	99	9
	2016	93	5	1	2	95	8
	2017	74	14	7	8	73	6
	2018	101	3	1	-3	106	9
Bosnia and Herzegovina	2015	12,173	56	358	151	11,720	3,418
	2016	13,644	87	258	-326	13,799	4,075
	2017	14,084	98	239	-186	14,129	4,216
	2018	14,505	106	195	262	14,154	4,258
Bulgaria	2015	35,859	0	36	81	35,742	4,964
	2016	31,231	0	17	213	31,001	4,335
	2017	34,277	1	22	583	33,673	4,741
	2018	30,263	..	43	54	30,166	4,278
Croatia	2015	..	57	..	12	45	11
	2016	..	44	..	-6	50	12
	2017	..	49	..	..	49	12
	2018	..	36	..	..	36	9
Czechia	2015	38,105	1,031	868	430	37,838	3,569
	2016	38,528	138	855	-405	38,216	3,599
	2017	39,306	205	941	-91	38,661	3,633
	2018	39,204	185	838	-243	38,794	3,637
Estonia	2015	19,616	..	..	1,717	17,899	13,608
	2016	17,057	..	..	-2,837	19,894	15,111
	2017	21,625	..	..	-272	21,897	16,596
	2018	21,883	..	..	509	21,374	16,157
France	2015	..	118	..	-7	125	2
	2016	..	99	..	-8	107	2
	2017	..	61	..	11	50	1
	2018	..	67	..	-9	76	1
Germany	2015	178,065	20	914	201	176,970	2,164
	2016	171,547	26	0	532	171,041	2,081
	2017	171,286	30	..	102	171,214	2,071
	2018	166,258	21	..	-920	167,199	2,011
Greece	2015	46,246	0	..	1,979	44,267	4,153
	2016	32,638	0	..	-1,592	34,230	3,225
	2017	37,731	0	..	-330	38,061	3,601
	2018	36,489	..	..	-1,386	37,875	3,600
Hungary	2015	9,261	224	355	-192	9,322	953
	2016	9,216	178	211	3	9,180	941
	2017	7,972	207	2	34	8,143	837
	2018	7,898	189	3	-91	8,175	842
Italy	2015	..	448	..	..	448	7
	2016	..	130	..	..	130	2
	2017	..	10	..	..	10	0
	2018	..	2	..	..	2	0
Kosovo	2015	8,241	2	45	-126	8,324	4,655
	2016	8,801	2	18	-267	9,052	5,092
	2017	7,575	9	14	-33	7,603	4,245
	2018	7,661	9	9	-32	7,693	4,281
Lithuania	2015	..	0	0	0	0	0
	2016	..	0	0	-1	1	0
	2017	..	3	..	..	3	1
	2018	..	2	..	..	2	1

Table 7

Production, trade and supply of brown coal and oil shale

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Montenegro	2015	1,773	5	59	..	1,719	2,742
	2016	1,398	5	42	..	1,361	2,170
	2017	1,475	5	97	..	1,383	2,204
	2018	1,596	5	94	-65	1,573	2,505
Netherlands	2015	..	36	..	0	36	2
	2016	..	36	..	0	36	2
	2017	..	48	..	0	48	3
	2018	..	40	..	..	40	2
North Macedonia	2015	5,937	173	3	65	6,042	2,906
	2016	5,152	192	2	-72	5,414	2,602
	2017	5,094	127	2	-153	5,372	2,580
	2018	4,995	112	0	287	4,820	2,314
Poland	2015	63,128	281	198	164	63,047	1,658
	2016	60,246	289	212	-67	60,390	1,590
	2017	61,161	328	256	49	61,184	1,612
	2018	58,571	276	287	-24	58,584	1,545
Romania	2015	25,493	1,020	378	-770	26,905	1,350
	2016	22,980	854	3	-46	23,877	1,206
	2017	25,752	670	2	201	26,219	1,334
	2018	23,647	588	6	-724	24,953	1,279
Russian Federation	2015	73,629	1,531	3,370	-435	72,225	498
	2016	73,485	2,296	5,272	1,079	69,430	478
	2017	74,886	2,321	8,701	-1,662	70,168	482
	2018	80,478	2,160	10,796	25	71,817	493
Serbia	2015	37,826	781	30	142	38,435	5,422
	2016	38,440	336	66	-282	38,992	5,510
	2017	39,806	488	74	42	40,178	5,708
	2018	37,649	369	80	-560	38,498	5,495
Slovakia	2015	1,939	436	..	-223	2,598	478
	2016	1,847	494	..	-79	2,420	445
	2017	1,834	556	..	41	2,349	431
	2018	1,502	595	..	43	2,054	377
Slovenia	2015	3,168	388	..	-16	3,572	1,725
	2016	3,349	372	..	-27	3,748	1,807
	2017	3,356	372	..	-14	3,742	1,802
	2018	3,217	411	..	-51	3,679	1,771
Spain	2015	1,317	..	..	-960	2,277	49
	2016	730	..	..	-650	1,380	30
	2017	1,816	..	..	-114	1,930	41
	2018	1,630	..	..	250	1,380	30
Switzerland	2015	..	132	..	2	130	16
	2016	..	133	..	3	130	15
	2017	..	123	..	1	122	14
	2018	..	110	..	3	107	12
Ukraine	2015	..	..	..	..	..	..
	2016	1,165	..	..	..	1,165	26
	2017	..	..	..	..	..	..
	2018	1,228	..	..	2	1,226	28
Oceania	2015	90,108	402	43	-350	90,817	2,279
	2016	89,248	379	0	-180	89,807	2,221
	2017	85,904	392	44	-184	86,436	2,108
	2018	76,040	526	28	89	76,449	1,839

Table 7**Production, trade and supply of brown coal and oil shale**

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Australia	2015	88,118	..	..	..	88,118	3,682
	2016	87,587	..	..	..	87,587	3,610
	2017	84,198	..	..	..	84,198	3,425
	2018	74,156	..	..	..	74,156	2,978
New Zealand	2015	1,990	402	43	-350	2,699	585
	2016	1,661	379	0	-180	2,220	476
	2017	1,706	392	44	-184	2,238	476
	2018	1,884	526	28	89	2,293	483

Production, trade and supply of coke

Thousand metric tons and kilograms per capita

Table Notes

Data comprise coal tar, gas coke and coke oven coke.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description/ classification, and xvi to xvii for the descriptions of relevant flows.

Figure 18: Per capita supply of coke by region, 2018

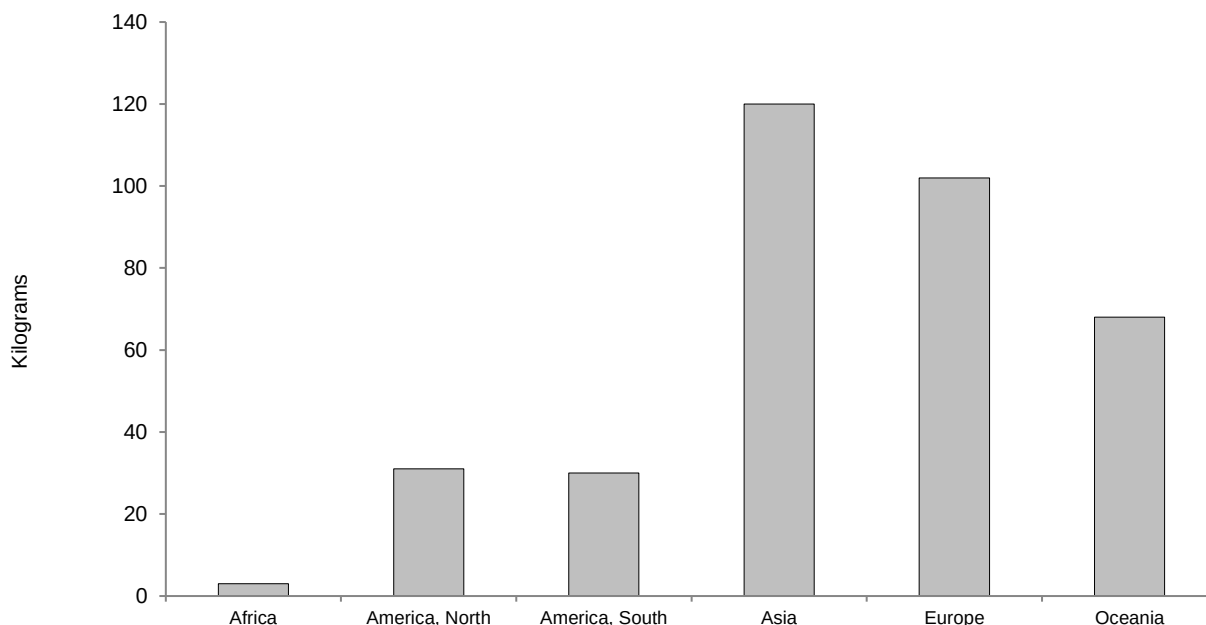


Figure 19: Major coke producing countries, 2018

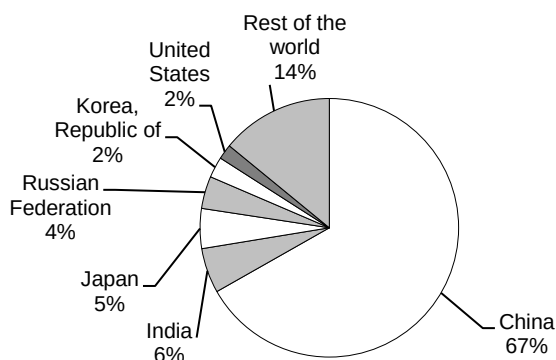


Figure 20: Major coke consuming countries, 2018

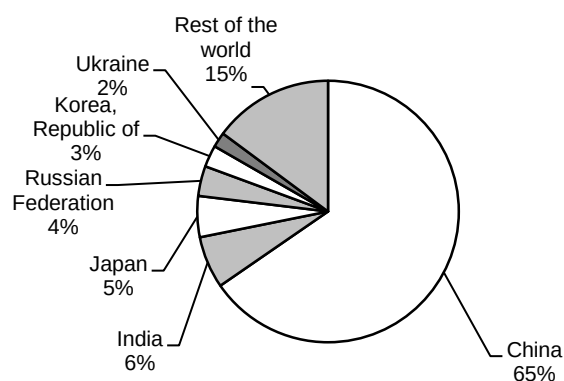


Table 8

Production, trade and supply of coke

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
World	2015	673,569	27,141	27,142	-739	674,306	91
	2016	656,116	26,677	28,525	-15,771	670,039	90
	2017	636,422	26,659	27,655	-13,751	649,177	86
	2018	670,037	27,176	29,856	5,926	661,431	87
Africa	2015	2,643	591	315	12	2,907	2
	2016	2,695	515	281	78	2,851	2
	2017	2,089	538	236	-26	2,417	2
	2018	2,796	692	106	-90	3,472	3
Algeria	2015	..	211	..	12	199	5
	2016	..	78	..	78	0	0
	2017	..	301	..	-26	327	8
	2018	..	500	..	-48	548	13
Egypt	2015	297	324	101	0	520	6
	2016	*222	*353	*66	0	*509	*5
	2017	*518	*153	*154	..	*517	*5
	2018	296	*116	..	-42	454	5
South Africa	2015	2,009	..	..	..	2,009	36
	2016	2,166	..	..	..	2,166	39
	2017	1,390	..	..	..	1,390	24
	2018	2,281	..	..	..	2,281	39
Zambia	2015	..	*56	*3	..	*53	*3
	2016	..	*52	*2	..	*50	*3
	2017	..	*52	*2	..	*50	*3
	2018	..	*52	*2	..	*50	*3
Zimbabwe	2015	337	..	211	..	126	9
	2016	307	32	213	..	126	9
	2017	181	32	80	..	133	9
	2018	219	24	104	..	139	10
America, North	2015	16,670	2,043	853	634	17,226	30
	2016	14,411	2,554	951	-583	16,597	29
	2017	15,333	2,453	1,201	-260	16,845	29
	2018	16,306	2,415	1,127	-290	17,884	31
Bermuda	2015	..	0	..	..	0	1
	2016	..	0	..	..	0	1
	2017	..	0	..	..	0	1
	2018	..	0	..	..	0	1
Canada	2015	2,273	1,213	76	81	3,329	92
	2016	2,194	1,236	44	172	3,214	88
	2017	2,203	1,211	5	-241	3,650	99
	2018	2,520	1,101	39	-105	3,687	99
Cuba	2015	..	1	..	..	1	0
	2016	..	1	..	..	1	0
	2017	..	1	..	..	1	0
	2018	..	1	..	..	1	0
El Salvador	2015	..	1	..	..	1	0
	2016	..	1	..	..	1	0
	2017	..	1	..	..	1	0
	2018	..	1	..	..	1	0
Mexico	2015	1,919	701	..	..	2,620	22
	2016	1,462	1,109	..	..	2,571	21
	2017	1,384	1,187	99	..	2,472	20
	2018	1,261	1,206	44	..	2,423	19

Table 8

Production, trade and supply of coke

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
United States	2015	12,478	127	777	553	11,275	35
	2016	10,755	207	907	-755	10,810	33
	2017	11,746	53	1,097	-19	10,721	33
	2018	12,525	106	1,044	-185	11,772	36
America, South	2015	12,733	2,336	1,956	-51	13,164	32
	2016	12,637	1,233	1,919	-16	11,967	29
	2017	13,524	1,603	2,574	96	12,457	30
	2018	14,524	1,918	3,130	582	12,730	30
Argentina	2015	816	..	..	..	816	19
	2016	617	..	..	..	617	14
	2017	716	..	..	..	716	16
	2018	792	..	..	..	792	18
Brazil	2015	9,079	2,295	..	-64	11,438	56
	2016	9,233	1,107	..	23	10,317	50
	2017	9,837	1,538	..	113	11,262	54
	2018	10,159	1,839	..	532	11,466	55
Chile	2015	407	3	39	17	354	20
	2016	418	0	146	-72	344	19
	2017	386	0	52	-3	337	18
	2018	410	..	31	49	330	18
Colombia	2015	2,431	..	1,917	0	514	11
	2016	2,369	..	1,773	0	596	12
	2017	2,585	..	2,522	..	63	1
	2018	3,163	..	3,099	..	64	1
Peru	2015	..	38	0	-4	42	1
	2016	..	126	0	33	93	3
	2017	..	65	0	-14	79	3
	2018	..	79	0	1	78	2
Asia	2015	544,243	9,398	10,881	-1,574	544,333	123
	2016	529,815	10,090	11,650	-15,464	543,720	121
	2017	510,702	10,092	9,964	-13,820	524,650	116
	2018	554,481	10,685	11,797	5,319	548,050	120
Afghanistan	2015	*53	*200	*53	..	*200	*6
	2016	*66	*200	*66	..	*200	*6
	2017	*67	*203	*67	..	*203	*6
	2018	*67	*203	*67	..	*203	*5
China	2015	448,225	4	9,648	-1,608	440,189	313
	2016	449,115	1	10,119	-15,290	454,286	321
	2017	431,684	10	8,079	-13,780	437,395	308
	2018	447,514	91	9,758	5,268	432,579	303
Georgia	2015	..	123	0	14	109	27
	2016	..	147	0	21	126	31
	2017	..	135	13	-18	140	35
	2018	..	162	..	3	159	40
India	2015	30,071	3,068	103	..	33,036	25
	2016	12,503	4,346	89	..	16,760	13
	2017	11,330	4,585	108	..	15,807	12
	2018	*37,665	*4,931	*25	..	*42,571	*31
Indonesia	2015	19	160	0	..	179	1
	2016	2,931	548	0	..	3,479	13
	2017	*2,795	523	0	..	*3,318	*13
	2018	*3,214	*170	0	..	*3,384	*13

Table 8

Production, trade and supply of coke

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Iran (Islamic Rep. of)	2015	1,179	315	15	0	1,479	19
	2016	1,199	26	1	1	1,223	15
	2017	1,317	122	51	1	1,387	17
	2018	1,400	354	91	..	1,663	20
Japan	2015	33,201	2,733	788	-3	35,149	275
	2016	33,957	2,035	1,027	77	34,888	273
	2017	33,401	1,273	1,232	-80	33,522	263
	2018	33,492	1,595	1,437	62	33,588	264
Jordan	2015	..	20	..	..	20	2
	2016	..	28	..	..	28	3
	2017	..	44	..	..	44	5
	2018	..	64	..	..	64	6
Kazakhstan	2015	2,647	973	15	43	3,562	203
	2016	2,872	835	29	20	3,658	205
	2017	2,989	952	48	..	3,894	215
	2018	2,839	933	67	..	3,705	202
Korea, Dem.Ppl's.Rep.	2015	..	177	..	..	177	7
	2016	..	200	..	..	200	8
	2017	..	179	..	..	179	7
	2018	..	133	..	..	133	5
Korea, Republic of	2015	18,146	389	..	..	18,535	365
	2016	16,572	340	..	..	16,912	332
	2017	16,600	335	..	..	16,935	331
	2018	17,468	324	..	..	17,792	348
Other Asia	2015	6,021	187	0	-35	6,243	265
	2016	6,226	201	0	-7	6,434	272
	2017	6,056	274	46	-8	6,292	266
	2018	6,345	300	24	1	6,620	279
Philippines	2015	..	250	..	..	250	2
	2016	..	336	..	..	336	3
	2017	..	294	..	..	294	3
	2018	..	307	..	..	307	3
Syrian Arab Republic	2015	..	1	..	..	1	0
	2016	..	1	..	..	1	0
	2017	..	1	..	..	1	0
	2018	..	1	..	..	1	0
Thailand	2015	..	15	..	-93	108	2
	2016	..	30	..	-36	66	1
	2017	..	88	..	30	58	1
	2018	..	18	..	-43	61	1
Turkey	2015	4,680	568	87	108	5,053	64
	2016	4,374	590	135	-250	5,079	64
	2017	4,463	834	126	35	5,136	63
	2018	4,477	814	118	29	5,144	62
United Arab Emirates	2015	..	2	0	..	2	0
	2016	..	1	0	..	1	0
	2017	..	2	0	..	2	0
	2018	..	25	0	..	25	3
Uzbekistan	2015	..	23	..	..	23	1
	2016	..	23	..	..	23	1
	2017	..	23	0	..	23	1
	2018	..	29	0	..	29	1

Table 8

Production, trade and supply of coke

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Viet Nam	2015	..	190	172	..	18	0
	2016	..	202	183	..	19	0
	2017	..	216	195	..	21	0
	2018	..	231	209	..	22	0
Europe	2015	93,810	12,642	12,193	240	94,020	126
	2016	93,189	12,095	12,969	214	92,101	123
	2017	91,476	11,788	13,207	259	89,797	120
	2018	78,760	11,231	13,121	405	76,466	102
Austria	2015	1,379	1,004	48	-9	2,344	270
	2016	1,394	929	39	20	2,264	259
	2017	1,397	1,167	40	-9	2,533	287
	2018	1,359	823	41	55	2,086	235
Belarus	2015	..	52	..	-3	55	6
	2016	..	54	..	4	50	5
	2017	..	57	..	-5	62	7
	2018	..	56	..	1	55	6
Belgium	2015	1,274	375	50	-33	1,632	145
	2016	1,248	465	7	-19	1,725	152
	2017	1,236	514	14	-1	1,737	152
	2018	1,252	499	26	4	1,721	150
Bosnia and Herzegovina	2015	911	0	286	178	447	130
	2016	880	17	377	92	428	126
	2017	855	58	306	216	391	117
	2018	945	38	566	-12	429	129
Bulgaria	2015	..	76	..	-4	80	11
	2016	..	97	..	-3	100	14
	2017	..	62	..	0	62	9
	2018	..	61	..	-1	62	9
Croatia	2015	..	25	..	0	25	6
	2016	..	30	..	1	29	7
	2017	..	31	..	..	31	7
	2018	..	30	..	-1	31	7
Czechia	2015	2,521	724	521	-29	2,753	260
	2016	2,396	844	550	2	2,688	253
	2017	2,676	522	646	23	2,529	238
	2018	2,738	530	635	-25	2,658	249
Denmark	2015	..	15	..	-2	17	3
	2016	..	11	..	-1	12	2
	2017	..	12	..	..	12	2
	2018	..	14	..	2	12	2
Estonia	2015	8	..	8	0	0	0
	2016	13	..	13	0	0	0
	2017	19	..	19	..	0	0
	2018	14	..	13	1	0	0
Finland	2015	915	446	121	78	1,162	212
	2016	921	323	91	83	1,070	195
	2017	900	255	137	42	976	177
	2018	899	311	107	37	1,066	193
France	2015	3,315	470	27	193	3,565	54
	2016	3,227	370	83	91	3,423	51
	2017	3,356	494	6	219	3,625	54
	2018	3,304	608	50	-39	3,901	58

Table 8

Production, trade and supply of coke

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Germany	2015	8,800	2,893	348	-24	11,369	139
	2016	9,387	2,388	715	0	11,060	135
	2017	9,392	2,297	842	30	10,817	131
	2018	9,361	2,301	838	9	10,815	130
Hungary	2015	1,006	48	344	-4	714	73
	2016	929	39	459	-9	518	53
	2017	999	110	374	9	726	75
	2018	997	96	303	56	734	76
Iceland	2015	..	24	..	..	24	73
	2016	..	25	..	..	25	75
	2017	..	22	..	..	22	66
	2018	..	21	..	..	21	62
Italy	2015	1,687	682	307	-60	2,122	35
	2016	1,806	985	374	-100	2,517	41
	2017	1,717	684	342	2	2,057	34
	2018	1,860	654	360	-14	2,168	36
Lithuania	2015	..	13	..	0	13	4
	2016	..	16	..	0	16	6
	2017	..	16	..	-1	17	6
	2018	..	19	..	..	19	7
Luxembourg	2015	..	1	..	..	1	2
	2016	..	1	..	..	1	2
	2017	..	1	..	..	1	2
	2018	..	0	..	..	0	1
Netherlands	2015	2,117	69	211	13	1,962	116
	2016	2,108	71	151	50	1,978	116
	2017	2,036	110	246	-80	1,980	116
	2018	2,060	110	156	40	1,974	116
North Macedonia	2015	..	0	0	0	1	0
	2016	..	1	0	-1	2	1
	2017	..	5	0	4	1	1
	2018	..	0	0	0	0	0
Norway	2015	..	427	0	-2	429	83
	2016	..	426	..	15	411	78
	2017	..	411	..	-14	425	80
	2018	..	416	..	-11	427	80
Poland	2015	10,170	100	6,849	92	3,329	88
	2016	10,101	125	7,355	-45	2,916	77
	2017	9,790	211	6,855	-94	3,240	85
	2018	9,849	214	6,948	141	2,974	78
Portugal	2015	..	8	..	0	8	1
	2016	..	13	..	1	12	1
	2017	..	12	..	..	12	1
	2018	..	9	..	..	9	1
Romania	2015	..	798	..	-27	825	41
	2016	..	808	..	-21	829	42
	2017	..	761	..	34	727	37
	2018	..	721	..	-26	747	38
Russian Federation	2015	40,079	91	2,455	-122	37,837	261
	2016	39,500	73	2,261	58	37,254	256
	2017	40,602	105	2,920	-62	37,849	260
	2018	27,094	120	2,739	-12	24,487	168

Table 8

Production, trade and supply of coke

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Serbia	2015	..	491	0	-2	493	70
	2016	..	664	0	2	662	94
	2017	..	719	3	-3	718	102
	2018	..	774	..	-64	838	120
Slovakia	2015	1,698	191	63	165	1,661	306
	2016	1,694	153	72	5	1,770	325
	2017	1,637	258	70	31	1,794	329
	2018	1,645	305	59	88	1,803	331
Slovenia	2015	..	31	..	2	29	14
	2016	..	28	..	1	27	13
	2017	..	30	..	..	30	14
	2018	..	30	..	..	30	14
Spain	2015	1,631	337	144	-34	1,858	40
	2016	1,572	186	137	45	1,576	34
	2017	1,580	261	132	-50	1,759	38
	2018	1,484	412	245	-9	1,660	36
Sweden	2015	1,187	87	81	-65	1,258	129
	2016	1,171	103	28	-16	1,262	128
	2017	1,155	96	30	-104	1,325	134
	2018	1,105	234	9	91	1,239	124
Switzerland	2015	..	15	..	..	15	2
	2016	..	16	..	..	16	2
	2017	..	14	..	..	14	2
	2018	..	15	..	..	15	2
Ukraine	2015	12,267	2,037	240	0	14,064	313
	2016	13,442	1,612	257	-150	14,947	334
	2017	10,696	1,550	225	66	11,955	269
	2018	11,460	840	26	7	12,267	277
United Kingdom	2015	2,845	1,112	90	-61	3,928	60
	2016	1,400	1,222	0	109	2,513	38
	2017	1,433	943	0	6	2,370	36
	2018	1,334	970	..	87	2,217	33
Oceania	2015	3,470	130	944	..	2,656	67
	2016	3,369	189	755	..	2,803	69
	2017	3,298	186	473	..	3,011	73
	2018	3,169	235	575	..	2,829	68
Australia	2015	2,966	130	944	..	2,152	90
	2016	2,867	189	755	..	2,301	95
	2017	2,789	186	473	..	2,502	102
	2018	2,683	235	575	..	2,343	94
New Zealand	2015	504	..	..	..	504	109
	2016	502	..	..	..	502	108
	2017	509	..	..	..	509	108
	2018	486	..	..	..	486	102

Production, trade and supply of patent fuel

Thousand metric tons and kilograms per capita

Table Notes

Data refer to patent fuel.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description/classification, and xvi to xvii for the descriptions of relevant flows.

Figure 21: Major patent fuel producing countries, 2018

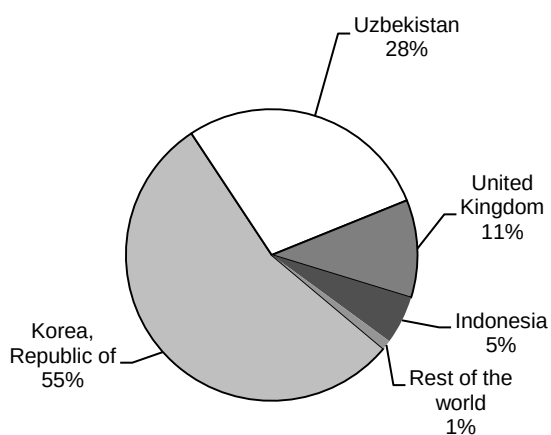


Figure 22: Major patent fuel consuming countries, 2018

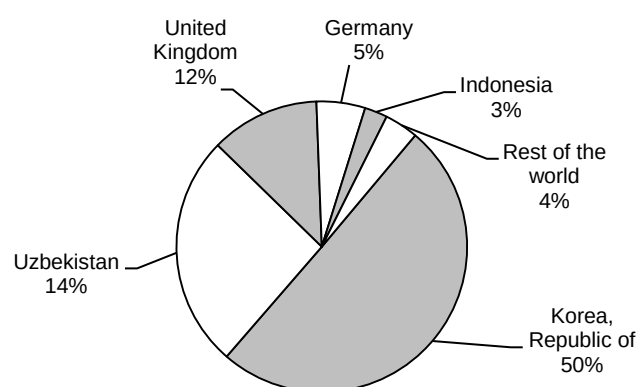


Table 9

Production, trade and supply of patent fuel

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
World	2015	2,035	241	40	-3	2,239	0
	2016	2,508	237	32	69	2,644	0
	2017	1,900	240	29	44	2,067	0
	2018	1,817	219	25	36	1,975	0
Africa	2015	4	..	..	..	4	0
	2016	4	..	..	..	4	0
	2017	5	..	..	..	5	0
	2018	5	..	..	..	5	0
Niger	2015	*4	..	..	..	*4	0
	2016	*4	..	..	..	*4	0
	2017	*5	..	..	..	*5	0
	2018	*5	..	..	..	*5	0
America, North	2015	..	2	..	..	2	0
	2016	..	2	..	..	2	0
	2017	..	2	..	..	2	0
	2018	..	2	..	..	2	0
Bahamas	2015	..	*2	..	..	*2	*5
	2016	..	*2	..	..	*2	*5
	2017	..	*2	..	..	*2	*5
	2018	..	*2	..	..	*2	*5
Asia	2015	1,796	4	0	0	1,800	0
	2016	2,257	5	0	54	2,208	0
	2017	1,692	6	0	46	1,652	0
	2018	1,601	8	0	52	1,557	0
Armenia	2015	..	0	..	..	0	0
	2016	..	1	..	..	1	0
	2017	..	1	..	..	1	0
	2018	..	1	..	..	1	0
Indonesia	2015	*19	*3	0	0	*22	0
	2016	*95	*4	0	*54	*45	0
	2017	*82	*4	0	*46	*40	0
	2018	*97	*5	0	*52	*50	0
Korea, Republic of	2015	1,473	..	..	..	1,473	29
	2016	1,255	..	..	..	1,255	25
	2017	1,078	..	..	..	1,078	21
	2018	992	..	..	..	992	19
United Arab Emirates	2015	..	0	..	..	0	0
	2016	..	1	..	..	1	0
	2017	..	1	..	..	1	0
	2018	..	2	..	..	2	0
Uzbekistan	2015	304	..	..	..	304	10
	2016	907	..	..	..	907	29
	2017	532	..	..	..	532	17
	2018	512	..	..	..	512	16
Europe	2015	235	235	40	-3	433	1
	2016	247	230	32	15	430	1
	2017	203	232	29	-2	408	1
	2018	211	209	25	-16	411	1
Austria	2015	..	7	..	..	7	1
	2016	..	4	..	..	4	0
	2017	..	4	..	..	4	0
	2018	..	28	..	..	28	3

Table 9

Production, trade and supply of patent fuel

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Belgium	2015	..	8	7	0	1	0
	2016	..	8	6	-1	3	0
	2017	..	6	4	1	1	0
	2018	..	5	3	..	2	0
France	2015	..	24	..	..	24	0
	2016	..	29	..	..	29	0
	2017	..	26	..	..	26	0
	2018	..	12	..	..	12	0
Germany	2015	..	155	1	..	154	2
	2016	..	137	1	..	136	2
	2017	..	114	1	..	113	1
	2018	..	108	1	..	107	1
Luxembourg	2015	..	1	..	..	1	2
	2016	..	0	..	..	0	0
	2017	..	0	..	..	0	0
	2018	..	0	..	..	0	0
Poland	2015	3	12	10	0	5	0
	2016	2	14	3	..	13	0
	2017	2	14	4	..	12	0
	2018	14	12	9	5	12	0
Slovakia	2015	..	8	..	..	8	1
	2016	..	9	..	..	9	2
	2017	..	11	..	..	11	2
	2018	..	11	..	..	11	2
Ukraine	2015	1	..	..	..	1	0
	2016	0	..	..	..	0	0
	2017	..	..	..	..	..	..
	2018	..	..	..	..	..	..
United Kingdom	2015	231	20	22	-3	232	4
	2016	245	29	22	16	236	4
	2017	201	57	20	-3	241	4
	2018	197	33	12	-21	239	4

Production, trade and supply of brown coal briquettes and peat products

Thousand metric tons and kilograms per capita

Table Notes

Data refer to brown coal briquettes (BKB) and peat products.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description/classification, and xvi to xvii for the descriptions of relevant flows.

Figure 23: Production of BKB and peat products by region, 1990-2018

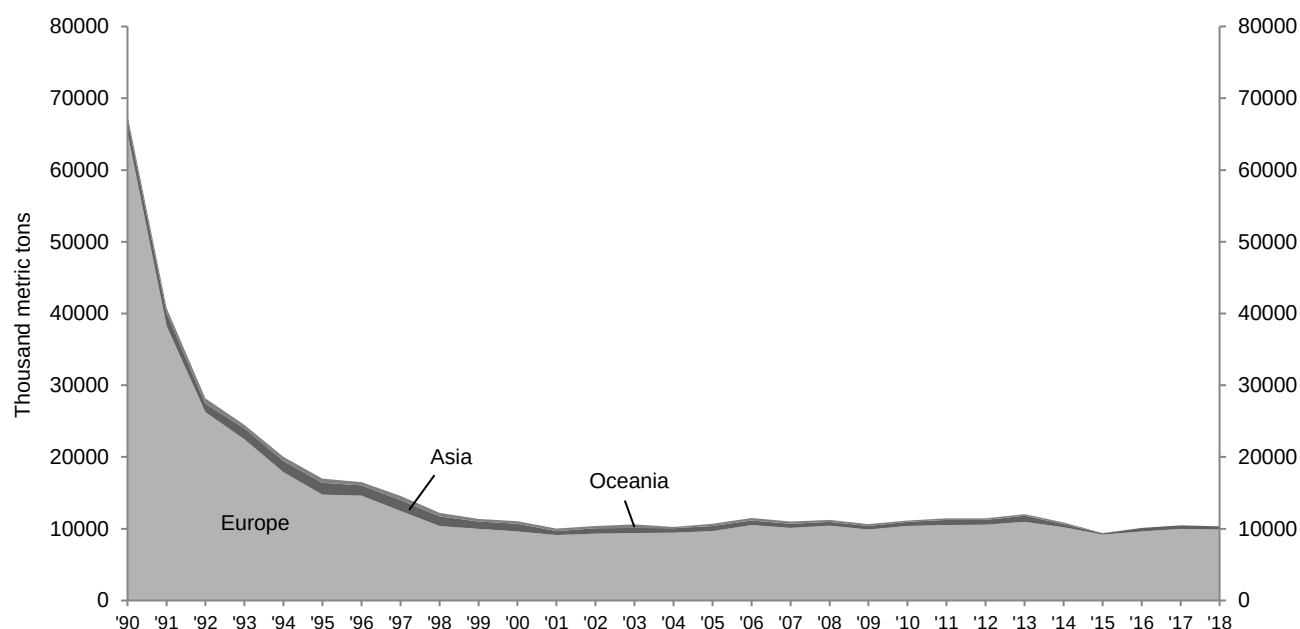


Figure 24: Major BKB and peat products producing countries, 2018

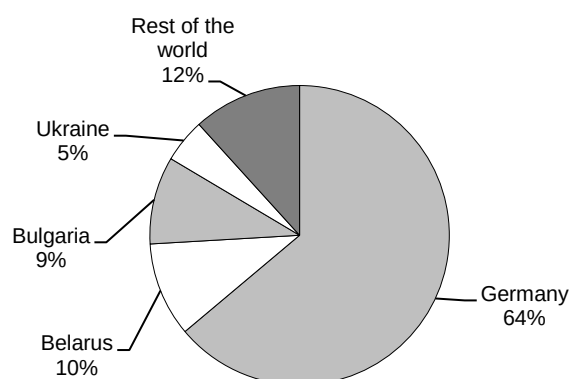


Figure 25: Major BKB and peat products consuming countries, 2018

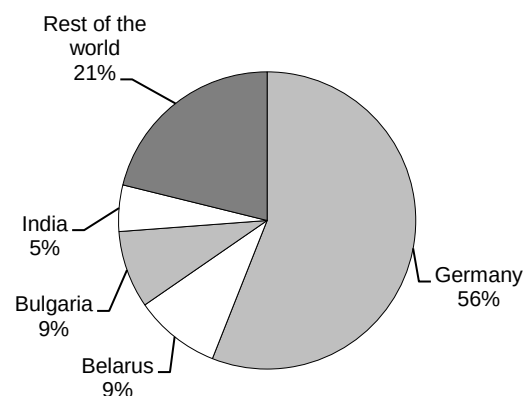


Table 10

Production, trade and supply of brown coal briquettes and peat products

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
World	2015	9,415	869	1,642	-10	8,652	1
	2016	10,106	910	1,600	-12	9,428	1
	2017	10,470	876	1,721	130	9,495	1
	2018	10,352	903	1,790	327	9,139	1
America, North	2015	..	3	..	..	3	0
	2016	..	4	..	..	4	0
	2017	..	2	..	..	2	0
	2018	..	1	..	..	1	0
Mexico	2015	..	3	..	..	3	0
	2016	..	4	..	..	4	0
	2017	..	2	..	..	2	0
	2018	..	1	..	..	1	0
Asia	2015	193	3	..	..	196	0
	2016	466	1	..	..	467	0
	2017	473	2	0	..	475	0
	2018	467	3	3	..	467	0
Georgia	2015	..	2	..	..	2	1
	2016	..	1	..	..	1	0
	2017	..	2	0	..	2	0
	2018	..	3	3	..	0	0
India	2015	*173	..	..	..	*173	0
	2016	*436	..	..	..	*436	0
	2017	*464	..	..	..	*464	0
	2018	*461	..	..	..	*461	0
Singapore	2015	..	1	..	..	1	0
	2016	..	0	..	..	0	0
	2017	..	..	..	..	..	..
	2018	..	..	..	..	..	..
Uzbekistan	2015	20	..	..	..	20	1
	2016	30	..	..	..	30	1
	2017	9	..	..	..	9	0
	2018	6	..	..	..	6	0
Europe	2015	9,178	862	1,642	-10	8,408	11
	2016	9,640	864	1,600	-30	8,934	12
	2017	9,997	872	1,721	140	9,008	12
	2018	9,885	899	1,786	327	8,670	12
Austria	2015	..	10	0	..	10	1
	2016	..	9	0	..	9	1
	2017	..	14	..	..	14	2
	2018	..	12	..	..	12	1
Belarus	2015	677	..	87	2	588	62
	2016	873	..	94	9	770	82
	2017	976	..	109	33	834	88
	2018	1,055	..	162	36	857	91
Belgium	2015	..	440	0	-1	441	39
	2016	..	417	..	-1	418	37
	2017	..	366	..	..	366	32
	2018	..	383	..	..	383	33
Bulgaria	2015	938	..	..	-40	978	136
	2016	1,313	..	..	7	1,306	183
	2017	1,192	..	..	99	1,093	154
	2018	980	..	..	210	770	109

Table 10

Production, trade and supply of brown coal briquettes and peat products

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Czechia	2015	122	146	82	1	185	17
	2016	118	171	94	-2	197	19
	2017	128	225	105	2	246	23
	2018	145	236	126	2	253	24
Estonia	2015	9	..	0	0	9	7
	2016	8	..	0	-1	9	7
	2017	..	..	..	..	..	..
	2018	..	..	..	..	..	..
Finland	2015	0	..	0	-9	9	2
	2016	0	..	0	-1	1	0
	2017	..	..	..	-1	1	0
	2018	..	..	..	..	..	..
France	2015	..	54	..	0	54	1
	2016	..	44	..	..	44	1
	2017	..	57	..	..	57	1
	2018	..	45	..	..	45	1
Germany	2015	6,657	41	1,444	-9	5,263	64
	2016	6,418	19	1,380	-50	5,107	62
	2017	6,705	8	1,486	..	5,227	63
	2018	6,612	14	1,477	30	5,119	62
Hungary	2015	..	4	..	..	4	0
	2016	..	7	..	..	7	1
	2017	..	12	..	..	12	1
	2018	..	11	..	..	11	1
Ireland	2015	148	27	18	-33	190	41
	2016	183	20	14	19	170	36
	2017	170	14	13	14	157	33
	2018	146	15	17	-34	178	37
Latvia	2015	..	..	..	..	..	..
	2016	..	..	..	..	..	..
	2017	1	..	..	..	1	1
	2018	1	..	1	-1	1	1
Lithuania	2015	5	45	2	-1	49	17
	2016	6	60	5	2	59	20
	2017	5	59	4	-5	65	23
	2018	4	73	1	1	75	27
Luxembourg	2015	..	9	..	..	9	16
	2016	..	8	..	..	8	14
	2017	..	9	..	..	9	16
	2018	..	9	..	..	9	14
Netherlands	2015	..	17	..	..	17	1
	2016	..	40	..	..	40	2
	2017	..	42	..	..	42	2
	2018	..	38	..	..	38	2
Poland	2015	..	39	2	..	37	1
	2016	..	27	5	..	22	1
	2017	..	29	2	..	27	1
	2018	..	44	..	..	44	1
Russian Federation	2015	43	..	3	-2	42	0
	2016	41	..	4	1	36	0
	2017	26	0	2	0	24	0
	2018	29	0	0	0	30	0

Table 10

Production, trade and supply of brown coal briquettes and peat products

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Serbia	2015	331	11	4	79	259	37
	2016	434	11	4	-16	457	65
	2017	513	5	0	12	505	72
	2018	422	2	2	-15	437	62
Slovakia	2015	..	19	..	2	17	3
	2016	..	31	..	1	30	6
	2017	..	32	..	1	31	6
	2018	..	17	..	-1	18	3
Ukraine	2015	248	0	0	1	247	5
	2016	246	0	0	2	244	5
	2017	281	..	..	-15	296	7
	2018	490	..	..	99	391	9
Oceania	2015	44	..	0	0	44	1
	2016	0	41	0	18	23	1
	2017	..	..	..	-10	10	0
	2018	..	1	..	..	1	0
Australia	2015	44	..	0	0	44	2
	2016	0	41	0	18	23	1
	2017	..	..	..	-10	10	0
	2018	..	1	..	..	1	0

Production, trade and supply of peat

Thousand metric tons and kilograms per capita

Table Notes

Data refer to peat.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description/classification, and xvi to xvii for the descriptions of relevant flows.

Figure 26: World production of peat, 1990-2018

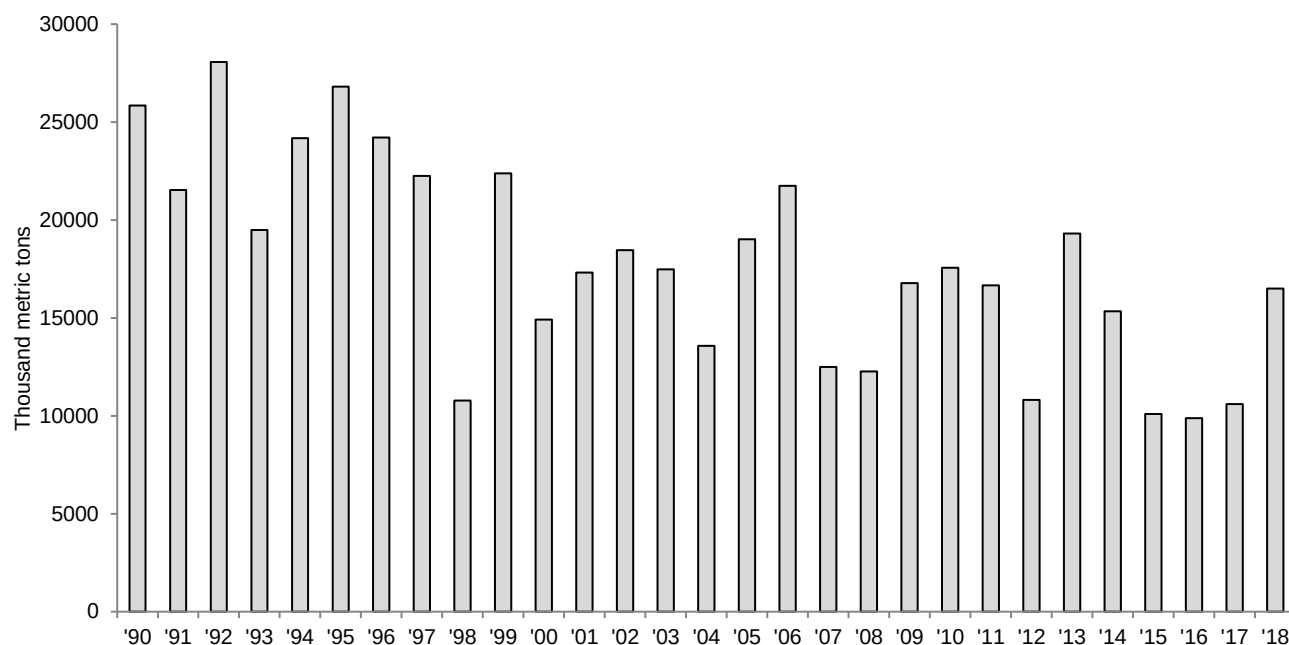


Figure 27: Major peat producing countries, 2018

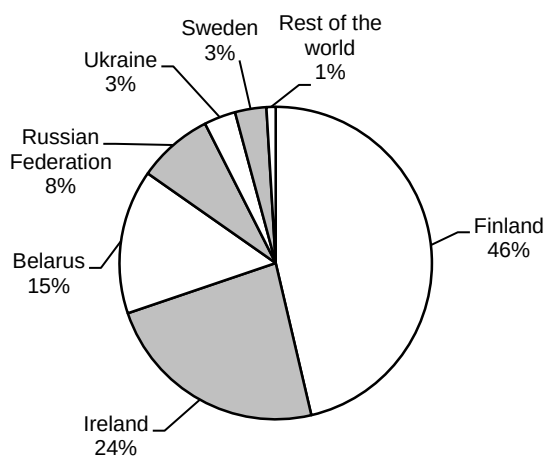


Figure 28: Major peat consuming countries, 2018

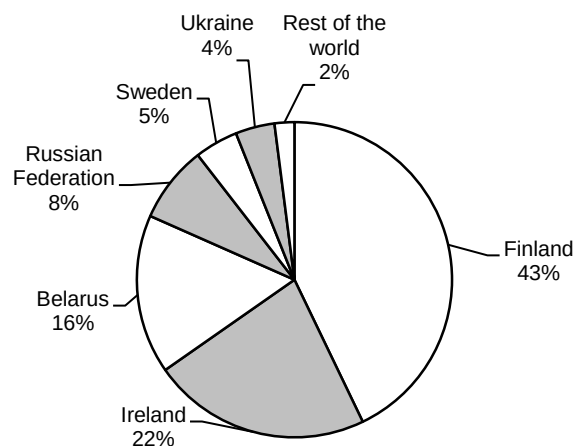


Table 11

Production, trade and supply of peat

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
World	2015	10,086	213	165	-2,711	12,845	2
	2016	9,887	183	152	-3,517	13,435	2
	2017	10,605	220	164	-2,314	12,975	2
	2018	16,502	283	183	2,408	14,195	2
Africa	2015	4	..	..	..	4	0
	2016	10	..	..	..	10	0
	2017	14	..	..	..	14	0
	2018	19	..	..	..	19	0
Burundi	2015	4	..	..	..	4	0
	2016	10	..	..	..	10	1
	2017	14	..	..	..	14	1
	2018	12	..	..	..	12	1
Rwanda	2015	..	..	..	..	..	..
	2016	..	..	..	..	..	..
	2017	..	..	..	..	..	..
	2018	*7	..	..	..	*7	*1
America, South	2015	8	3	..	..	11	0
	2016	7	5	..	..	12	0
	2017	5	4	..	..	9	0
	2018	5	4	..	..	9	0
Falkland Is. (Malvinas)	2015	*8	..	..	..	*8	*2,821
	2016	*7	..	..	..	*7	*2,392
	2017	5	..	..	..	5	1,627
	2018	5	..	..	..	5	1,545
Uruguay	2015	..	3	..	..	3	1
	2016	..	5	..	..	5	1
	2017	..	4	..	..	4	1
	2018	..	4	..	..	4	1
Asia	2015	..	6	..	..	6	0
	2016	..	5	..	..	5	0
	2017	..	6	0	..	6	0
	2018	..	7	3	..	4	0
Georgia	2015	..	2	..	..	2	1
	2016	..	1	..	..	1	0
	2017	..	2	0	..	2	0
	2018	..	3	3	..	0	0
Uzbekistan	2015	..	0	..	..	0	0
	2016	..	1	..	..	1	0
	2017	..	1	..	..	1	0
	2018	..	1	0	..	1	0
Viet Nam	2015	..	3	..	..	3	0
	2016	..	3	..	..	3	0
	2017	..	3	..	..	3	0
	2018	..	3	..	..	3	0
Europe	2015	10,074	204	165	-2,711	12,824	17
	2016	9,870	173	152	-3,517	13,408	18
	2017	10,586	209	164	-2,314	12,945	17
	2018	16,478	272	180	2,408	14,162	19
Austria	2015	1	..	..	..	1	0
	2016	0	..	..	..	0	0
	2017	..	..	..	..	..	..
	2018	..	..	..	..	..	..

Table 11

Production, trade and supply of peat

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Belarus	2015	1,015	..	..	-375	1,390	147
	2016	1,362	..	..	-494	1,856	196
	2017	2,045	..	..	-28	2,073	219
	2018	2,465	..	..	147	2,318	245
Estonia	2015	118	..	36	-50	132	100
	2016	102	..	18	-54	138	105
	2017	32	..	31	-147	148	112
	2018	92	..	0	-30	122	92
Finland	2015	3,489	61	1	-2,206	5,755	1,050
	2016	3,031	45	..	-2,586	5,662	1,030
	2017	3,085	26	..	-2,304	5,415	983
	2018	7,646	44	..	1,606	6,084	1,102
Ireland	2015	3,546	..	..	47	3,499	752
	2016	3,187	..	..	-340	3,527	751
	2017	3,593	..	..	181	3,412	718
	2018	3,871	..	..	687	3,184	661
Latvia	2015	0	0	0	-1	1	1
	2016	4	0	0	1	3	2
	2017	2	..	1	-2	3	2
	2018	7	..	1	-6	12	6
Lithuania	2015	74	..	8	43	23	8
	2016	17	..	1	-13	29	10
	2017	24	..	1	-29	52	18
	2018	28	..	3	-26	51	18
Republic of Moldova	2015	..	1	..	..	1	0
	2016	..	0	..	..	0	0
	2017	..	0	..	..	0	0
	2018	..	..	..	..	..	..
Romania	2015	4	36	1	0	39	2
	2016	7	39	1	0	45	2
	2017	7	50	0	0	57	3
	2018	6	65	..	..	71	4
Russian Federation	2015	967	12	95	-141	1,025	7
	2016	1,197	15	106	-38	1,144	8
	2017	903	41	102	0	842	6
	2018	1,288	44	157	57	1,118	8
Sweden	2015	369	82	..	..	451	46
	2016	424	57	..	..	481	49
	2017	377	74	..	..	451	46
	2018	535	97	..	..	632	63
Ukraine	2015	491	12	24	-28	507	11
	2016	539	17	26	7	523	12
	2017	518	18	29	15	492	11
	2018	540	22	19	-27	570	13

Production of biofuels and wastes

Terajoules

Table Notes

The conversion of fuelwood (solid volume, 9.135 TJ/m³) is based on an average 20-30% moisture content of wood from an unspecified species.

The methodology used for estimating fuel bagasse production for certain countries is derived from the work done by the Economic Commission for Latin America and the Caribbean (ECLAC). Although several different methodologies have been devised, the one selected assumes a yield of 3.26 tons of fuel bagasse at 50% humidity per ton of cane sugar produced. This methodology was used for instances where national data on bagasse production were not

available. In these cases, data were derived from sugar production figures extracted from the Sugar Yearbook of the International Sugar Organization (London).

Biogasoline includes Other liquid biofuels.

The total column excludes charcoal as it is the only secondary energy product in the table.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description/classification, and xvi to xvii for the descriptions of relevant flows.

Figure 29: Production of fuelwood by region, 1990-2018

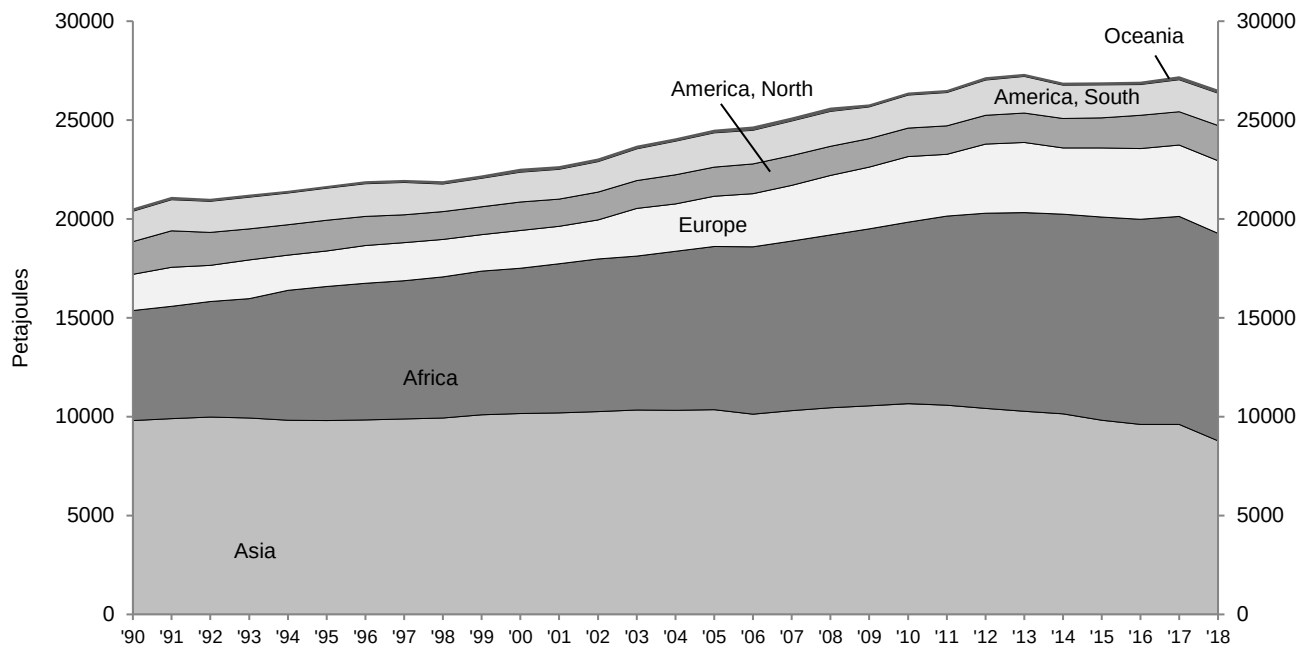


Figure 30: Production of charcoal by region, 1990-2018

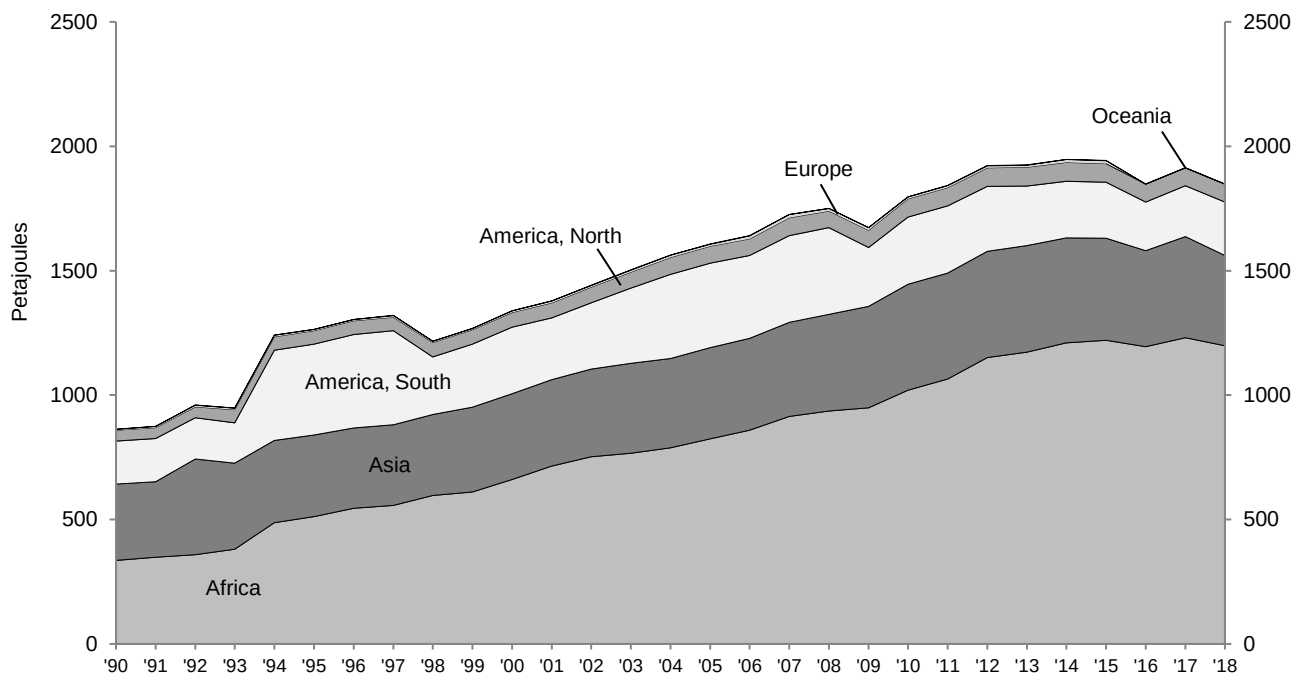


Figure 31: Production of total solid biofuels by region, 2018

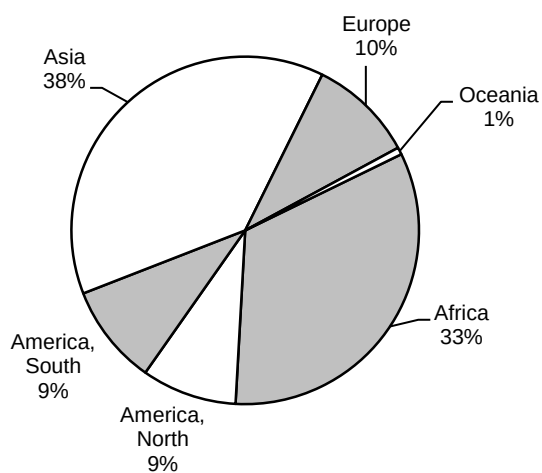


Figure 32: Production of biogases by region, 2018

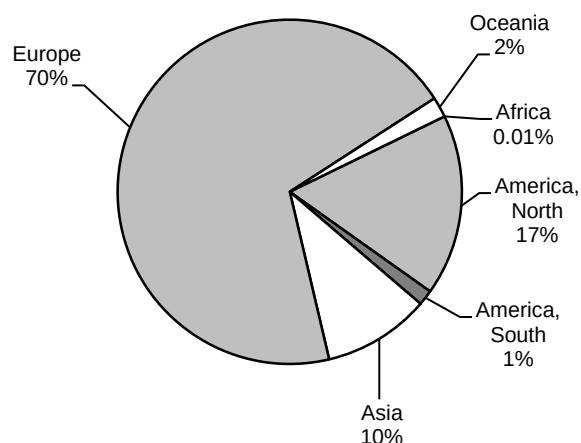


Figure 33: Production of bagasse by region, 2018

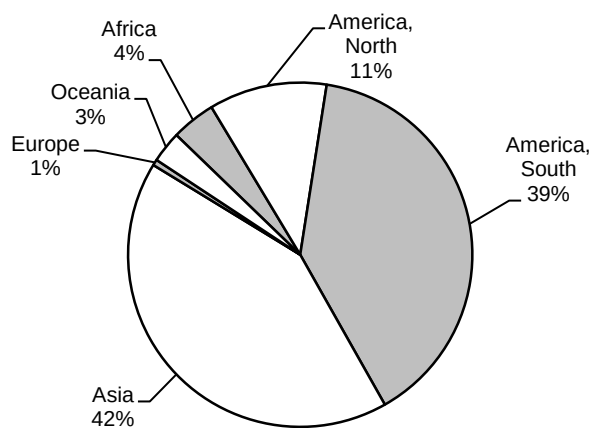


Figure 34: Production of liquids biofuels by region, 2018

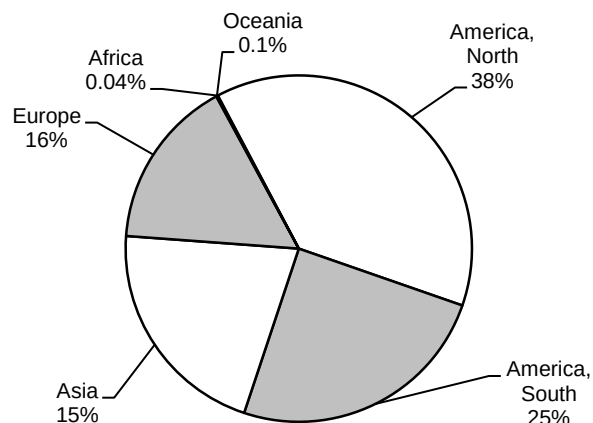


Figure 35: Production of energy from wastes by region, 2018

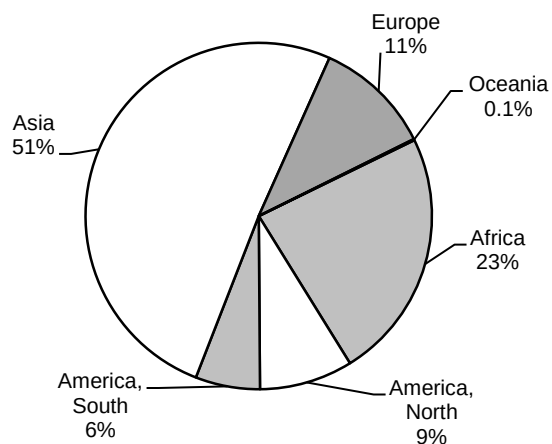


Table 12

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
World	2015	26,909,521	686,897	11,246,139	3,581,014	1,811,988	1,942,794
	2016	26,934,418	638,013	11,748,646	3,615,699	1,689,690	1,861,914
	2017	27,213,443	631,526	11,934,311	3,590,488	1,705,817	1,928,079
	2018	26,540,058	682,878	12,093,629	3,576,323	1,817,819	1,861,374
Africa	2015	10,273,286	158,556	3,162,403	186,072	..	1,220,680
	2016	10,368,593	162,097	3,244,866	184,534	..	1,195,166
	2017	10,516,247	164,765	3,324,192	141,925	..	1,230,753
	2018	10,496,127	168,302	3,407,293	148,818	..	1,198,689
Algeria	2015	292	..	..	..	..	..
	2016	283	..	..	..	..	..
	2017	484	..	..	..	..	..
	2018	1,032	..	..	..	..	..
Angola	2015	154,892	..	100,681	*1,692	..	32,362
	2016	157,116	..	102,127	*3,058	..	32,834
	2017	159,460	..	103,650	*3,619	..	33,276
	2018	161,604	..	105,044	*3,639	..	33,778
Benin	2015	110,625	..	2,973	252	..	14,131
	2016	101,255	..	3,061	252	..	14,426
	2017	110,360	..	3,818	*252	..	14,927
	2018	108,829	..	4,411	*255	..	15,252
Botswana	2015	6,387	..	..	..	..	2,216
	2016	6,387	..	..	..	..	2,216
	2017	6,388	..	..	..	..	2,216
	2018	6,389	..	..	..	..	2,216
Burkina Faso	2015	125,268	..	..	633	..	19,850
	2016	126,702	..	..	633	..	20,345
	2017	128,164	..	..	*633	..	20,852
	2018	129,651	..	..	*633	..	21,372
Burundi	2015	54,801	..	..	579	..	7,788
	2016	54,801	..	..	596	..	7,788
	2017	54,801	..	..	552	..	7,788
	2018	54,801	..	..	492	..	7,788
Cabo Verde	2015	*1,466	..	..	..	..	*19
	2016	*1,448	..	..	..	..	*19
	2017	*1,413	..	..	..	..	*19
	2018	*1,399	..	..	..	..	*19
Cameroon	2015	255,228	..	4,999	..	..	6,785
	2016	261,985	..	5,131	..	..	6,962
	2017	*268,862	..	5,266	..	..	7,139
	2018	275,912	..	5,410	..	..	7,346
Central African Rep.	2015	18,270	..	..	..	..	6,209
	2016	18,270	..	..	..	..	6,308
	2017	18,270	..	..	..	..	6,408
	2018	18,270	..	..	..	..	6,408
Chad	2015	69,992	..	..	885	..	13,479
	2016	70,942	..	..	881	..	13,806
	2017	71,920	..	..	*914	..	14,131
	2018	72,916	..	..	*736	..	14,485
Comoros	2015	*3,562	..	*16	..	..	*4
	2016	*3,637	..	*17	..	..	*4
	2017	3,715	..	17	..	..	5
	2018	3,799	..	18	..	..	*5
Congo	2015	47,114	..	15,641	..	..	6,461
	2016	49,083	..	15,641	..	..	6,638
	2017	51,168	..	15,641	..	..	6,815
	2018	52,518	..	16,048	..	..	6,992

Table 12

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
897,492	1,332,316	2,139,111	1,249,218	952,682	50,806,378
1,034,784	1,366,593	2,162,499	1,401,748	971,967	51,564,059
1,090,275	1,377,275	2,208,843	1,528,047	995,638	52,275,664
1,133,846	1,389,745	2,360,464	1,762,222	1,019,022	52,376,005
3,129	..	1,608	..	80	13,785,134
3,108	..	1,528	..	110	13,964,836
3,106	..	1,179	..	104	14,151,518
3,106	..	1,822	..	130	14,225,598
..	..	..	..	..	292
..	..	..	..	..	283
..	..	..	..	..	484
..	..	..	..	..	1,032
..	..	..	..	..	257,265
..	..	..	..	..	262,301
..	..	..	..	..	266,729
..	..	..	..	..	270,287
..	..	..	..	..	113,850
..	..	..	..	..	104,568
..	..	..	..	..	114,430
..	..	..	..	..	113,495
..	..	..	..	..	6,387
..	..	..	..	..	6,387
..	..	..	..	..	6,388
..	..	..	..	..	6,389
..	..	..	..	..	125,901
..	..	..	..	*36	127,372
..	..	..	..	*36	128,833
..	..	..	..	*36	130,320
..	..	..	..	..	55,380
..	..	..	..	..	55,396
..	..	..	..	..	55,353
..	..	..	..	..	55,293
..	..	..	..	..	*1,466
..	..	..	..	..	*1,448
..	..	..	..	..	*1,413
..	..	..	..	..	*1,399
..	..	..	..	7	260,234
..	..	..	..	7	267,123
..	..	..	..	7	*274,135
..	..	..	..	7	281,329
..	..	..	..	..	18,270
..	..	..	..	..	18,270
..	..	..	..	..	18,270
..	..	..	..	..	18,270
..	..	..	..	..	70,877
..	..	..	..	..	71,824
..	..	..	..	..	72,834
..	..	..	..	..	73,651
..	..	..	..	..	*3,578
..	..	..	..	..	*3,654
..	..	..	..	..	3,732
..	..	..	..	..	3,816
..	..	..	..	..	62,755
..	..	..	..	..	64,724
..	..	..	..	..	66,809
..	..	..	..	..	68,566

Table 12

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Côte d'Ivoire	2015	391,481	..	1,928	..	..	45,666
	2016	268,123	..	1,986	..	..	44,180
	2017	264,415	..	1,986	..	..	44,191
	2018	259,853	..	2,131	..	..	43,749
Dem. Rep. of the Congo	2015	1,135,176	..	6,028	..	..	116,112
	2016	1,174,908	..	6,229	..	..	120,183
	2017	1,176,516	..	3,014	..	..	120,360
	2018	1,072,193	..	4,658	..	..	121,865
Djibouti	2015	3,516	..	..	..	..	1,534
	2016	3,560	..	..	..	..	1,554
	2017	3,605	..	..	..	..	1,574
	2018	3,650	..	..	..	..	1,595
Egypt	2015	162,058	..	37,389	23,286	..	41,979
	2016	162,325	..	39,098	23,412	..	42,303
	2017	162,599	..	*39,098	*23,412	..	42,625
	2018	162,877	..	*41,088	*23,915	..	42,949
Equatorial Guinea	2015	4,083	..	..	..	..	295
	2016	4,083	..	..	..	..	310
	2017	4,083	..	..	..	..	310
	2018	4,083	..	..	..	..	324
Eritrea	2015	21,694	2,551	1,444	..	..	5,045
	2016	21,913	2,577	1,459	..	..	5,133
	2017	22,151	2,606	1,475	..	..	5,399
	2018	22,407	2,636	1,492	..	..	5,605
Eswatini	2015	12,140	..	..	17,583	..	1,434
	2016	16,114	..	..	14,757	..	1,464
	2017	12,062	..	..	12,365	..	266
	2018	12,174	..	..	12,974	..	*295
Ethiopia	2015	988,160	149,058	146,106	8,811	..	124,475
	2016	999,269	152,834	149,807	8,934	..	127,340
	2017	1,010,532	156,058	156,058	*8,958	..	130,275
	2018	1,021,978	160,026	156,857	*8,958	..	133,272
Gabon	2015	*49,968	..	2,257	592	..	655
	2016	*50,000	..	2,132	705	..	667
	2017	*50,778	..	2,194	*618	..	676
	2018	*51,975	..	2,142	*633	..	687
Gambia	2015	6,773	..	..	..	..	1,936
	2016	6,846	..	..	..	..	1,972
	2017	6,921	..	..	..	..	2,008
	2018	6,997	..	..	..	..	2,045
Ghana	2015	99,322	..	..	..	..	43,843
	2016	98,907	..	..	..	..	43,695
	2017	107,237	..	..	..	..	46,197
	2018	107,702	..	..	..	..	46,648
Guinea	2015	111,730	..	..	604	..	11,455
	2016	112,050	..	..	629	..	11,679
	2017	112,388	..	..	629	..	11,907
	2018	112,730	..	..	*638	..	12,140
Guinea-Bissau	2015	25,499	..	..	..	..	2,124
	2016	25,808	..	..	..	..	2,172
	2017	26,119	..	..	..	..	2,221
	2018	26,434	..	..	..	..	2,271
Kenya	2015	545,871	..	24,139	15,393	..	191,316
	2016	520,065	..	25,223	14,616	..	135,818
	2017	515,908	..	26,055	14,367	..	151,040
	2018	*515,908	..	25,879	11,676	..	115,758

Table 12

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	..	..	..	..	393,409
..	..	..	..	..	270,109
..	..	..	..	..	266,401
..	..	..	..	..	261,984
..	..	..	..	..	1,141,204
..	..	..	..	..	1,181,137
..	..	..	..	..	1,179,530
..	..	..	..	..	1,076,851
..	..	..	..	..	3,516
..	..	..	..	..	3,560
..	..	..	..	..	3,605
..	..	..	..	..	3,650
..	..	..	..	..	222,733
..	..	..	..	..	224,835
..	..	..	..	..	225,109
..	..	..	..	..	227,880
..	..	..	..	..	4,083
..	..	..	..	..	4,083
..	..	..	..	..	4,083
..	..	..	..	..	4,083
..	..	..	..	..	25,689
..	..	..	..	..	25,949
..	..	..	..	..	26,231
..	..	..	..	..	26,535
..	..	..	..	..	29,724
..	..	..	..	..	30,871
..	..	..	..	..	24,427
..	..	..	..	..	25,148
..	..	134	..	..	1,292,269
..	..	134	..	..	1,310,978
..	..	134	..	..	1,331,739
..	..	161	..	..	1,347,979
..	..	..	..	..	*52,818
..	..	..	..	..	*52,837
..	..	..	..	..	*53,590
..	..	..	..	..	*54,751
..	..	..	..	..	6,773
..	..	..	..	..	6,846
..	..	..	..	..	6,921
..	..	..	..	..	6,997
..	..	..	..	..	99,322
..	..	..	..	..	98,907
..	..	..	..	..	107,237
..	..	..	..	..	107,702
..	..	..	..	..	112,334
..	..	..	..	..	112,679
..	..	..	..	..	113,017
..	..	..	..	..	113,367
..	..	..	..	..	25,499
..	..	..	..	..	25,808
..	..	..	..	..	26,119
..	..	..	..	..	26,434
..	..	..	..	..	585,403
..	..	..	..	..	559,903
..	..	..	..	..	556,330
..	..	..	..	6	*553,469

Table 12

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Lesotho	2015	*12,163	*5,022	*1,371	..	..	1,027
	2016	*11,370	*4,508	*1,375	..	..	1,145
	2017	10,576	3,995	1,441	..	..	510
	2018	*9,994	*3,481	*1,459	..	..	153
Liberia	2015	76,056	..	..	..	..	8,309
	2016	78,534	..	..	..	..	8,595
	2017	81,091	..	..	..	..	8,891
	2018	83,734	..	..	..	..	9,197
Libya	2015	24,095	..	..	..	..	3,275
	2016	24,330	..	..	..	..	3,304
	2017	24,602	..	..	..	..	3,334
	2018	24,884	..	..	..	..	3,363
Madagascar	2015	203,203	..	..	2,189	..	*25,665
	2016	256,698	..	..	2,726	..	23,655
	2017	266,494	..	..	2,851	..	24,702
	2018	*271,382	..	..	*2,896	..	*25,075
Malawi	2015	52,350	..	..	7,300	..	16,309
	2016	52,882	..	..	6,772	..	16,674
	2017	53,435	..	..	6,772	..	17,047
	2018	54,010	..	..	*6,772	..	17,429
Mali	2015	*148,334	..	..	*1,457	..	*14,750
	2016	*150,965	..	..	1,457	..	15,045
	2017	*153,587	..	..	*1,457	..	15,340
	2018	*155,249	..	..	*1,457	..	15,488
Mauritania	2015	18,736	..	..	..	..	6,245
	2016	19,092	..	..	..	..	6,390
	2017	19,448	..	..	..	..	6,534
	2018	19,805	..	..	..	..	6,667
Mauritius	2015	155	..	..	11,104	..	18
	2016	154	..	..	9,946	..	15
	2017	153	..	..	9,382	..	15
	2018	148	..	..	8,690	..	15
Morocco	2015	39,335	..	..	718	..	561
	2016	63,752	..	..	*718	..	561
	2017	63,022	..	..	*718	..	590
	2018	61,744	..	..	*718	..	590
Mozambique	2015	275,940	..	19,324	9,313	..	27,730
	2016	263,550	..	20,088	8,811	..	41,979
	2017	262,416	..	20,673	*8,046	..	45,017
	2018	270,174	..	21,006	*7,344	..	46,345
Namibia	2015	13,419	..	1,449	..	..	4,750
	2016	13,419	..	1,449	..	..	4,750
	2017	13,711	..	1,481	..	..	4,868
	2018	15,718	..	1,622	..	..	5,399
Niger	2015	63,457	*542	*435	..	..	1,486
	2016	65,581	*562	*452	..	..	1,535
	2017	*54,496	*584	*470	..	..	1,593
	2018	*65,932	*607	*488	..	..	1,652
Nigeria	2015	2,341,574	..	2,325,740	378	..	117,145
	2016	2,388,629	..	2,387,458	503	..	119,387
	2017	2,445,144	..	2,450,305	*507	..	122,160
	2018	2,407,570	..	2,515,866	*510	..	125,228
Rwanda	2015	*83,476	..	..	126	..	*18,113
	2016	*83,476	..	..	126	..	*18,113
	2017	*84,179	..	..	*130	..	*18,349
	2018	*84,526	..	..	*131	..	*18,467

Table 12

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	..	..	..	..	*18,556
..	..	..	..	..	*17,254
..	..	..	..	..	16,012
..	..	..	..	..	*14,934
..	..	..	..	..	76,056
..	..	..	..	..	78,534
..	..	..	..	..	81,091
..	..	..	..	..	83,734
..	..	..	..	..	24,095
..	..	..	..	..	24,330
..	..	..	..	..	24,602
..	..	..	..	..	24,884
..	..	..	..	..	205,392
..	..	..	..	..	259,423
..	..	..	..	..	269,345
..	..	..	..	..	*274,278
*98	..	..	..	..	59,748
*99	..	..	..	..	59,753
*98	..	..	..	..	60,305
*98	..	..	..	..	60,880
..	..	..	..	..	*149,791
..	..	..	..	..	*152,422
..	..	..	..	..	*155,044
..	..	..	..	..	*156,706
..	..	..	..	..	18,736
..	..	..	..	..	19,092
..	..	..	..	..	19,448
..	..	..	..	..	19,805
..	..	..	..	73	11,333
..	..	..	..	67	10,167
..	..	..	..	61	9,596
..	..	..	..	81	8,919
3,031	..	..	..	..	43,084
3,009	..	..	..	..	67,480
3,008	..	..	..	..	66,748
3,008	..	..	..	..	65,471
..	..	..	..	..	304,577
..	..	..	..	..	292,449
..	..	..	..	..	291,136
..	..	..	..	..	298,524
..	..	..	..	..	14,868
..	..	..	..	..	14,868
..	..	..	..	..	15,192
..	..	..	..	..	17,340
..	..	..	..	..	64,434
..	..	..	..	..	66,595
..	..	..	..	..	*55,550
..	..	..	..	..	*67,027
..	..	..	..	..	4,667,692
..	..	..	..	..	4,776,590
..	..	..	..	..	4,895,957
..	..	..	..	..	4,923,946
..	..	..	..	..	*83,602
..	..	..	..	..	*83,602
..	..	..	..	..	*84,309
..	..	..	..	..	*84,657

Table 12

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Sao Tome and Principe	2015	1,023	..	..	..	..	280
	2016	1,029	..	..	..	..	283
	2017	1,033	..	..	..	..	286
	2018	1,039	..	..	..	..	289
Senegal	2015	65,076	..	1,071	2,052	..	10,148
	2016	60,730	..	1,136	2,768	..	8,526
	2017	64,534	..	252	2,706	..	5,576
	2018	63,838	..	252	3,536	..	5,399
Seychelles	2015	29	..	..	..	..	..
	2016	29	..	..	..	..	..
	2017	29	..	..	..	..	..
	2018	29	..	..	..	..	..
Sierra Leone	2015	52,965	..	*72	201	..	12,744
	2016	53,330	..	*72	201	..	13,039
	2017	53,723	..	*72	201	..	13,334
	2018	54,143	..	*72	*201	..	13,629
Somalia	2015	128,241	..	..	579	..	34,854
	2016	135,387	..	..	579	..	36,127
	2017	138,909	..	..	*527	..	37,447
	2018	142,539	..	..	*530	..	38,816
South Africa	2015	218,908	..	112,603	41,000	..	39,412
	2016	221,774	..	113,240	39,817	..	41,831
	2017	221,746	..	114,735	3,325	..	41,300
	2018	218,093	..	115,570	3,641	..	24,485
South Sudan	2015	8,022	..	..	..	..	325
	2016	8,103	..	..	..	..	325
	2017	6,890	..	..	..	..	266
	2018	6,937	..	..	..	..	266
St. Helena and Depend.	2015	6	..	..	..	..	..
	2016	6	..	..	..	..	..
	2017	6	..	..	..	..	..
	2018	5	..	..	..	..	..
Sudan	2015	138,952	..	47,113	*16,425	..	17,346
	2016	139,884	..	47,215	*16,711	..	17,346
	2017	140,834	..	47,319	*16,711	..	17,346
	2018	141,830	..	48,466	*16,989	..	17,346
Togo	2015	110,919	..	1,056	..	..	20,119
	2016	113,533	..	1,358	..	..	20,591
	2017	105,704	..	1,245	..	..	21,093
	2018	111,890	..	1,641	..	..	22,332
Tunisia	2015	34,558	1,383	3,800	..	..	6,284
	2016	39,262	1,616	4,370	..	..	6,431
	2017	39,427	1,523	4,370	..	..	6,579
	2018	39,708	*1,551	*4,377	..	..	6,726
Uganda	2015	716,992	..	..	*16,603	..	55,433
	2016	742,912	..	..	*18,170	..	*56,164
	2017	773,962	..	..	*15,321	..	*60,008
	2018	806,413	..	..	*23,398	..	60,960
United Rep. of Tanzania	2015	538,053	..	138,743	1,152	..	45,076
	2016	545,532	..	142,969	1,242	..	46,345
	2017	553,309	..	147,316	1,297	..	47,643
	2018	570,051	..	151,773	1,297	..	49,088
Zambia	2015	308,903	..	47,940	*3,321	..	35,843
	2016	318,791	..	49,404	*3,398	..	36,934
	2017	328,608	..	50,883	*3,475	..	38,040
	2018	338,895	..	52,387	*3,475	..	39,164

Table 12

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	..	..	..	..	1,023
..	..	..	..	..	1,029
..	..	..	..	..	1,033
..	..	..	..	..	1,039
..	..	..	..	..	68,199
..	..	..	..	..	64,634
..	..	..	..	..	67,492
..	..	..	..	..	67,626
..	..	..	..	..	29
..	..	..	..	..	29
..	..	..	..	..	29
..	..	..	..	..	29
..	..	..	..	..	53,238
..	..	..	..	..	53,603
..	..	..	..	..	53,996
..	..	..	..	..	54,416
..	..	..	..	..	128,820
..	..	..	..	..	135,966
..	..	..	..	..	139,436
..	..	..	..	..	143,069
..	..	..	..	..	372,511
..	..	..	..	..	374,831
..	..	..	..	..	339,806
..	..	..	..	..	337,304
..	..	..	..	..	8,022
..	..	..	..	..	8,103
..	..	..	..	..	6,890
..	..	..	..	..	6,937
..	..	..	..	..	6
..	..	..	..	..	6
..	..	..	..	..	6
..	..	..	..	..	5
..	..	..	..	..	202,490
..	..	..	..	..	203,810
..	..	..	..	..	204,864
..	..	..	..	..	207,284
..	..	..	..	..	111,975
..	..	..	..	..	114,891
..	..	..	..	..	106,949
..	..	..	..	..	113,531
..	..	..	..	..	39,741
..	..	..	..	..	45,248
..	..	..	..	..	45,320
..	..	..	..	..	45,636
..	..	..	..	..	733,595
..	..	..	..	..	761,082
..	..	..	..	..	789,282
..	..	..	..	..	829,811
..	..	..	..	..	677,948
..	..	..	..	..	689,743
..	..	..	..	..	701,921
..	..	..	..	..	723,120
..	..	..	..	..	360,164
..	..	..	..	..	371,593
..	..	..	..	..	382,966
..	..	..	..	..	394,757

Table 12

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Zimbabwe	2015	192,976	..	118,085	1,843	..	266
	2016	199,977	..	122,369	2,117	..	266
	2017	204,860	..	125,357	2,180	..	266
	2018	207,767	..	127,136	2,687	..	266
America, North	2015	1,527,348	373,303	686,818	309,205	952,141	74,351
	2016	1,671,417	317,313	591,162	346,456	827,488	71,594
	2017	1,687,880	308,947	537,731	390,372	808,160	71,530
	2018	1,783,881	354,331	615,405	396,350	903,830	71,849
Anguilla	2015	*2	..	..	..	..	..
	2016	*2	..	..	..	..	..
	2017	*2	..	..	..	..	..
	2018	*2	..	..	..	..	..
Aruba	2015	19	..	..	..	..	6
	2016	20	..	..	..	..	6
	2017	20	..	..	..	..	7
	2018	21	..	..	..	..	7
Bahamas	2015	308	..	..	..	..	33
	2016	308	..	..	..	..	33
	2017	309	..	..	..	..	34
	2018	309	..	..	..	..	34
Barbados	2015	44	..	..	455	..	9
	2016	44	..	..	462	..	9
	2017	44	..	..	478	..	9
	2018	43	..	..	539	..	9
Belize	2015	1,151	..	..	3,433	..	23
	2016	1,151	..	..	3,429	..	23
	2017	1,151	..	..	4,270	..	23
	2018	1,151	..	..	4,295	..	24
Bermuda	2015	..	..	..	..	..	..
	2016	..	..	..	..	..	..
	2017	..	..	..	..	..	..
	2018	..	..	..	..	..	..
British Virgin Islands	2015	14	..	..	..	..	2
	2016	14	..	..	..	..	2
	2017	14	..	..	..	..	2
	2018	15	..	..	..	..	2
Canada	2015	328,264	..	..	..	187,758	..
	2016	299,283	..	..	..	177,749	..
	2017	312,305	..	..	..	175,549	..
	2018	315,589	..	..	..	178,289	..
Costa Rica	2015	11,053	..	4,279	11,269	..	57
	2016	10,349	..	4,298	11,269	..	45
	2017	10,284	..	3,939	10,669	..	30
	2018	8,646	..	3,780	11,388	..	18
Cuba	2015	9,858	..	*88	38,163	..	2,227
	2016	10,111	..	*88	29,295	..	2,726
	2017	9,638	..	*88	40,413	..	2,272
	2018	8,805	..	*88	48,463	..	1,894
Dominica	2015	69	..	..	..	..	7
	2016	68	..	..	..	..	7
	2017	68	..	..	..	..	7
	2018	68	..	..	..	..	7
Dominican Republic	2015	10,140	..	454	8,138	..	1,596
	2016	10,313	..	468	9,229	..	1,658
	2017	10,446	..	490	11,410	..	1,720
	2018	10,667	..	516	11,514	..	1,796

Table 12

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	..	1,474	..	..	314,378
..	..	1,394	..	..	325,857
..	..	1,045	..	..	333,442
..	..	1,662	..	..	339,251
56,942	306,219	1,217,843	164,790	197,721	5,792,330
51,550	320,869	1,265,945	206,117	174,645	5,772,961
48,394	310,065	1,308,003	208,582	176,153	5,784,287
50,790	312,927	1,328,279	240,746	173,626	6,160,165
..	..	..	..	..	*2
..	..	..	..	..	*2
..	..	..	..	..	*2
..	..	..	..	..	*2
..	..	..	..	..	19
..	..	..	..	..	20
..	..	..	..	..	20
..	..	..	..	..	21
..	..	..	..	..	308
..	..	..	..	..	308
..	..	..	..	..	309
..	..	..	..	..	309
..	..	..	..	..	499
..	..	..	..	..	506
..	..	..	..	..	522
..	..	..	..	..	582
..	..	..	..	..	4,584
..	..	..	..	..	4,580
..	..	..	..	..	5,421
..	..	..	..	..	5,446
..	*605	..	..	..	*605
..	*605	..	..	..	*605
..	*590	..	..	..	*590
..	*600	..	..	..	*600
..	..	..	..	..	14
..	..	..	..	..	14
..	..	..	..	..	14
..	..	..	..	..	15
5,783	7,658	36,368	9,973	16,977	592,780
5,960	7,658	35,939	13,984	16,977	557,550
6,137	7,658	36,582	13,027	16,977	568,235
6,314	7,658	37,011	13,027	16,977	574,865
..	..	705	..	4	27,310
..	..	630	..	4	26,550
..	..	625	..	9	25,526
..	..	604	..	9	24,426
..	..	*348	..	..	48,457
..	..	*348	..	..	39,841
..	..	*348	..	..	50,487
..	..	*348	..	..	57,704
..	..	..	..	..	69
..	..	..	..	..	68
..	..	..	..	..	68
..	..	..	..	..	68
..	..	..	..	*137	18,869
..	..	..	..	*157	20,167
..	..	..	..	*157	22,503
..	..	..	..	*157	22,853

Table 12

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels				
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Charcoal
El Salvador	2015	14,411	..	..	9,876	1,013
	2016	11,568	..	..	11,424	775
	2017	11,334	..	..	14,073	837
	2018	10,007	..	..	14,053	739
Greenland	2015	..	..	..	..	..
	2016	..	..	..	..	..
	2017	..	..	..	..	..
	2018	..	..	..	..	..
Grenada	2015	359	..	..	20	61
	2016	363	..	..	20	63
	2017	377	..	..	21	65
	2018	391	..	..	22	69
Guatemala	2015	210,264	..	..	55,979	1,682
	2016	223,935	..	..	85,152	1,711
	2017	237,545	..	..	53,779	1,800
	2018	242,245	..	..	51,340	1,896
Haiti	2015	137,436	..	..	958	37,052
	2016	139,415	..	..	972	37,583
	2017	141,050	..	..	983	38,026
	2018	143,143	..	..	998	38,586
Honduras	2015	90,483	..	..	10,228	30
	2016	86,381	..	..	13,115	9
	2017	59,076	..	..	17,116	3
	2018	80,973	..	..	11,860	*6
Jamaica	2015	5,006	..	..	3,660	1,133
	2016	5,006	..	..	2,868	1,133
	2017	5,006	..	..	1,965	1,133
	2018	*5,006	..	..	1,544	1,121
Mexico	2015	253,164	..	37,151	68,415	1
	2016	251,887	..	38,276	70,264	3
	2017	250,601	..	0	126,554	6
	2018	249,078	..	0	131,794	6
Nicaragua	2015	42,000	..	4,899	16,735	207
	2016	45,266	..	4,067	14,221	443
	2017	42,526	..	3,592	14,226	207
	2018	45,582	..	3,598	14,277	295
Panama	2015	7,146	..	..	4,764	36
	2016	7,102	..	..	6,319	35
	2017	7,059	..	..	5,997	34
	2018	7,015	..	..	5,846	33
St. Lucia	2015	*697	..	..	..	136
	2016	*670	..	..	..	125
	2017	*643	..	..	..	115
	2018	*617	..	..	..	106
St. Pierre-Miquelon	2015	5	..	..	..	..
	2016	5	..	..	..	..
	2017	5	..	..	..	..
	2018	5	..	..	..	..
St. Vincent-Grenadines	2015	66	..	..	..	11
	2016	66	..	..	..	11
	2017	65	..	..	..	11
	2018	65	..	..	..	11
Trinidad and Tobago	2015	286	..	..	..	59
	2016	284	..	..	..	59
	2017	281	..	..	..	59
	2018	279	..	..	..	59

Table 12

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	..	..	..	589	24,876
..	..	..	..	531	23,523
..	..	..	..	510	25,917
..	..	..	..	495	24,555
..	98	..	..	..	98
..	94	..	..	..	94
..	94	..	..	..	94
..	*94	..	..	..	*94
..	..	..	..	..	379
..	..	..	..	..	383
..	..	..	..	..	397
..	..	..	..	..	412
..	..	..	..	212	266,454
..	..	..	..	199	309,286
..	..	..	..	329	291,653
..	..	..	..	459	294,044
..	..	241	..	..	138,635
..	..	241	..	..	140,628
..	..	241	..	..	142,274
..	..	241	..	..	144,382
..	3,576	..	..	..	104,287
..	9,432	..	..	..	108,928
..	9,559	..	..	..	85,751
..	7,446	..	..	..	100,279
..	..	..	..	..	8,665
..	..	..	..	..	7,874
..	..	..	..	..	6,971
..	..	..	..	..	*6,550
473	..	..	..	1,961	361,165
552	..	..	..	1,912	362,894
897	..	..	..	2,265	380,323
3,693	..	..	..	2,515	387,086
..	..	..	..	..	63,634
..	..	..	..	..	63,554
..	..	..	..	..	60,343
..	..	..	..	..	63,457
..	..	..	..	..	11,910
..	..	..	..	..	13,421
..	..	..	..	..	13,056
..	..	..	..	..	12,861
..	..	..	..	..	*697
..	..	..	..	..	*670
..	..	..	..	..	*643
..	..	..	..	..	*617
..	..	..	..	..	5
..	..	..	..	..	5
..	..	..	..	..	5
..	..	..	..	..	5
..	..	..	..	..	66
..	..	..	..	..	66
..	..	..	..	..	65
..	..	..	..	..	65
..	..	..	..	..	286
..	..	..	..	..	284
..	..	..	..	..	281
..	..	..	..	..	279

Table 12

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Turks and Caicos Islands	2015	10	..	..	..	..	4
	2016	11	..	..	..	..	4
	2017	11	..	..	..	..	4
	2018	*11	..	..	..	..	4
United States	2015	405,092	*373,303	*639,948	77,113	*764,382	28,969
	2016	567,795	*317,313	*543,965	88,418	*649,736	25,134
	2017	588,020	*308,947	*529,623	*88,418	*632,605	25,134
	2018	654,148	*354,331	*607,424	*88,418	*725,535	25,134
America, South	2015	1,658,747	..	708,885	1,453,286	126,319	224,988
	2016	1,561,671	..	763,878	1,499,902	158,887	196,382
	2017	1,605,825	..	829,987	1,491,047	160,256	204,959
	2018	1,644,242	..	922,395	1,407,338	165,667	214,182
Argentina	2015	34,816	..	..	41,406	..	12,331
	2016	34,652	..	..	42,711	..	11,771
	2017	34,873	..	..	49,522	..	11,977
	2018	39,250	..	..	54,974	..	11,918
Bolivia (Plur. State of)	2015	7,094	..	252	31,460	..	1,357
	2016	7,452	..	184	33,447	..	1,416
	2017	6,005	..	242	33,305	..	1,416
	2018	5,756	..	670	*33,367	..	1,446
Brazil	2015	1,006,403	..	648,338	1,255,521	..	190,098
	2016	935,588	..	704,438	1,301,691	..	163,578
	2017	990,234	..	774,475	1,278,872	..	169,271
	2018	1,039,645	..	867,675	1,218,269	..	177,295
Chile	2015	237,262	..	..	..	64,768	2,154
	2016	227,188	..	..	..	94,908	1,918
	2017	241,105	..	..	..	93,577	3,629
	2018	240,328	..	..	..	100,675	4,160
Colombia	2015	135,480	..	..	75,268	12,429	590
	2016	129,077	..	..	74,891	12,688	295
	2017	105,566	..	..	80,843	12,859	590
	2018	106,425	..	..	56,020	13,190	649
Ecuador	2015	10,834	..	..	12,033	..	..
	2016	10,596	..	..	12,524	..	..
	2017	10,378	..	..	14,103	..	..
	2018	10,127	..	..	12,170	..	..
Falkland Is. (Malvinas)	2015	7	..	..	..	..	3
	2016	8	..	..	..	..	3
	2017	8	..	..	..	..	3
	2018	8	..	..	..	..	4
Guyana	2015	1,228	..	..	5,998	..	47
	2016	1,073	..	..	5,587	..	42
	2017	1,057	..	..	5,552	..	43
	2018	1,073	..	..	3,913	..	40
Paraguay	2015	120,454	..	23,530	..	..	12,686
	2016	113,888	..	24,563	..	..	12,139
	2017	117,769	..	23,335	..	..	13,103
	2018	101,576	..	23,931	..	..	12,801
Peru	2015	66,494	..	6,021	20,733	..	5,517
	2016	65,032	..	5,967	19,880	..	5,015
	2017	61,497	..	5,269	20,938	..	4,750
	2018	63,159	..	5,449	20,986	..	5,694
Suriname	2015	1,220	..	821	..	..	..
	2016	914	..	735	..	..	..
	2017	915	..	736	..	..	..
	2018	916	..	737	..	..	..

Table 12

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	..	..	..	..	10
..	..	..	..	..	11
..	..	..	..	..	11
..	..	..	..	..	*11
50,686	294,282	1,180,181	154,818	177,841	4,117,645
45,038	303,080	1,228,787	192,133	154,864	4,091,129
41,360	292,164	1,270,206	195,555	155,906	4,102,804
40,783	297,129	1,290,075	227,718	153,014	4,438,575
..	..	664,965	215,393	11,627	4,839,221
..	..	625,684	240,083	11,128	4,861,232
..	..	615,225	262,148	13,066	4,977,553
..	..	736,426	285,638	14,682	5,176,388
..	..	17,286	66,645	..	160,152
..	..	18,867	97,851	..	194,082
..	..	23,450	105,653	..	213,498
..	..	23,638	89,350	..	207,212
..	..	..	..	..	38,806
..	..	..	..	..	41,083
..	..	..	..	..	39,552
..	..	..	..	..	*39,793
..	..	629,693	127,496	6,492	3,673,942
..	..	588,850	121,738	5,728	3,658,033
..	..	574,136	137,433	7,993	3,763,144
..	..	691,896	171,348	8,532	3,997,365
..	..	..	..	3,671	305,701
..	..	..	..	3,747	325,843
..	..	..	..	3,849	338,531
..	..	..	..	4,465	345,468
..	..	9,514	19,283	..	251,974
..	..	9,246	18,768	36	244,706
..	..	8,362	17,296	99	225,025
..	..	11,417	20,645	69	207,766
..	..	335	..	479	23,681
..	..	452	..	282	23,853
..	..	817	..	567	25,866
..	..	717	..	925	23,939
..	..	..	..	..	7
..	..	..	..	..	8
..	..	..	..	..	8
..	..	..	..	..	8
..	..	..	..	..	7,226
..	..	..	..	..	6,661
..	..	..	..	..	6,609
..	..	..	..	..	4,987
..	..	5,069	..	..	149,052
..	..	6,259	..	..	144,710
..	..	6,479	..	..	147,583
..	..	7,071	..	..	132,578
..	..	1,552	118	985	95,902
..	..	364	4	1,335	92,582
..	..	515	66	558	88,842
..	..	0	2,760	691	93,046
..	..	..	..	..	2,040
..	..	..	..	..	1,649
..	..	..	..	..	1,650
..	..	..	..	..	1,652

Table 12

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Uruguay	2015	25,244	..	10,267	1,050	49,122	..
	2016	25,176	..	11,570	863	51,291	..
	2017	25,060	..	11,807	882	53,820	..
	2018	25,794	..	12,873	858	51,802	..
Venezuela (Bolivar. Rep.)	2015	12,211	..	19,657	9,818	..	207
	2016	11,027	..	16,422	8,307	..	207
	2017	11,358	..	14,123	*7,029	..	177
	2018	10,184	..	11,060	*6,780	..	177
Asia	2015	9,823,869	141,399	6,360,866	1,477,639	202,695	410,543
	2016	9,611,532	143,703	6,855,674	1,429,164	158,475	385,011
	2017	9,611,258	145,297	6,919,184	1,431,112	178,391	406,438
	2018	8,777,143	145,716	6,828,990	1,498,791	189,175	362,693
Afghanistan	2015	16,368	..	..	..	..	3,821
	2016	16,660	..	..	..	..	3,927
	2017	16,960	..	..	..	..	4,037
	2018	16,960	..	..	..	..	4,037
Armenia	2015	5,088	1,307	..	..	..	..
	2016	6,194	2,195	..	..	..	..
	2017	6,082	2,428	..	..	..	..
	2018	4,348	1,289	..	..	..	..
Azerbaijan	2015	3,088	..	..	..	..	177
	2016	1,270	..	..	..	..	6
	2017	1,380	..	..	..	..	6
	2018	1,347	..	..	..	..	3
Bahrain	2015	64	..	..	..	..	33
	2016	65	..	..	..	..	34
	2017	66	..	..	..	..	34
	2018	66	..	..	..	..	34
Bangladesh	2015	242,179	119,987	228,381	1,762	..	9,922
	2016	239,844	121,178	230,649	1,888	..	9,947
	2017	237,541	122,456	232,777	1,753	..	9,972
	2018	235,268	123,673	235,395	*1,771	..	9,998
Bhutan	2015	46,722	..	..	..	..	207
	2016	47,088	..	..	..	..	207
	2017	47,457	..	..	..	..	207
	2018	47,457	..	..	..	..	207
Brunei Darussalam	2015	106	..	..	..	..	9
	2016	106	..	..	..	..	9
	2017	106	..	..	..	..	10
	2018	106	..	..	..	..	10
Cambodia	2015	176,140	..	545	..	..	26,845
	2016	180,792	..	1,118	..	..	27,229
	2017	185,783	..	1,132	..	..	27,642
	2018	191,160	..	1,385	..	..	28,055
China	2015	1,574,744	..	1,580,328	258,327	..	49,090
	2016	1,545,363	..	1,613,903	251,547	..	49,090
	2017	1,517,369	..	1,753,712	259,293	..	48,689
	2018	1,489,067	..	1,788,786	294,675	..	48,289
China, Macao SAR	2015	..	..	..	..	..	..
	2016	..	..	..	..	..	..
	2017	..	..	..	..	..	..
	2018	..	..	..	..	..	..
Cyprus	2015	555	..	121	..	..	30
	2016	642	..	146	..	..	59
	2017	781	..	175	..	..	59
	2018	786	..	163	..	..	59

Table 12

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	..	1,517	1,851	..	89,051
..	..	1,646	1,722	..	92,268
..	..	1,466	1,700	..	94,735
..	..	1,688	1,535	..	94,551
..	..	..	..	..	41,686
..	..	..	..	..	35,756
..	..	..	..	..	32,510
..	..	..	..	..	28,024
446,003	196,072	136,415	411,237	63,463	19,259,657
546,826	166,862	147,754	505,815	74,554	19,640,359
624,194	162,807	158,089	548,298	81,120	19,859,751
625,552	170,161	163,466	704,336	102,459	19,205,789
..	..	..	..	..	16,368
..	..	..	..	..	16,660
..	..	..	..	..	16,960
..	..	..	..	..	16,960
..	..	..	..	..	6,396
..	..	..	..	..	8,390
..	..	..	..	..	8,510
..	..	..	..	..	5,637
..	3,037	..	..	..	6,125
..	2,772	..	..	..	4,042
..	2,782	..	..	..	4,162
..	2,966	..	..	..	4,313
..	..	..	..	..	64
..	..	..	..	..	65
..	..	..	..	..	66
..	..	..	..	..	66
..	..	..	..	..	592,309
..	..	..	..	..	593,559
..	..	..	..	..	594,527
..	..	..	..	..	596,107
..	..	..	..	..	46,722
..	..	..	..	..	47,088
..	..	..	..	..	47,457
..	..	..	..	..	47,457
..	..	..	..	..	106
..	..	..	..	..	106
..	..	..	..	..	106
..	..	..	..	..	106
..	..	..	..	..	176,685
..	..	..	..	..	181,910
..	..	..	..	..	186,915
..	..	..	..	..	192,545
200,666	..	93,543	256,893	..	3,964,501
213,297	..	100,307	275,474	..	3,999,891
252,365	..	*106,664	321,757	..	4,211,159
230,133	..	*106,664	*323,840	..	4,233,165
..	*4,968	..	..	..	*4,968
..	*5,292	..	..	..	*5,292
..	*5,616	..	..	..	*5,616
..	5,897	..	..	..	5,897
124	24	..	37	471	1,332
197	9	..	0	492	1,486
122	37	..	37	504	1,656
158	51	..	..	554	1,712

Table 12

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Georgia	2015	16,572	48	78	..	..	..
	2016	16,007	102	123	..	..	..
	2017	15,115	103	59	..	..	..
	2018	11,233	125	42	..	..	..
India	2015	3,612,485	..	3,567,415	726,800	..	87,114
	2016	3,654,193	..	3,784,803	624,165	..	85,668
	2017	3,754,412	..	3,752,455	631,235	..	113,664
	2018	*3,439,137	..	*3,691,161	*531,720	..	*82,187
Indonesia	2015	1,152,334	..	390,782	63,061	..	14,131
	2016	1,076,605	..	389,530	56,012	..	22,096
	2017	1,032,622	..	388,084	*49,751	..	26,609
	2018	901,816	..	409,291	52,464	..	47,053
Iran (Islamic Rep. of)	2015	73,994	1,175	7,500	..	..	27
	2016	*73,994	*1,175	8,400	..	..	30
	2017	*73,994	*1,175	8,715	..	..	0
	2018	*73,994	*1,175	8,373	..	..	..
Iraq	2015	1,935	..	..	..	..	767
	2016	2,148	..	..	..	..	856
	2017	1,982	..	..	..	..	797
	2018	1,977	..	..	..	..	561
Israel	2015	183	..	..	..	..	..
	2016	183	..	..	..	..	..
	2017	183	..	..	..	..	..
	2018	183	..	..	..	..	..
Japan	2015	58,175	..	68,386	..	183,076	354
	2016	68,080	..	69,938	..	139,603	354
	2017	77,970	..	74,928	..	158,638	354
	2018	81,391	..	75,019	..	159,676	354
Jordan	2015	3,133	..	..	..	..	1,350
	2016	3,197	..	..	..	..	1,380
	2017	3,261	..	..	..	..	1,410
	2018	3,325	..	..	..	..	1,441
Kazakhstan	2015	2,202	..	..	..	..	14
	2016	2,202	..	..	..	..	14
	2017	2,202	..	..	..	..	14
	2018	2,171	..	..	..	..	47
Korea, Dem.Ppl's.Rep.	2015	46,152	..	..	..	..	4,809
	2016	46,381	..	..	..	..	4,838
	2017	46,604	..	..	..	..	4,897
	2018	46,740	..	..	..	..	4,927
Korea, Republic of	2015	69,022	..	0	..	9,672	..
	2016	67,887	..	0	..	9,581	..
	2017	77,939	..	0	..	7,172	..
	2018	88,260	..	..	..	8,378	..
Kuwait	2015	181	..	..	..	..	89
	2016	183	..	..	..	..	90
	2017	185	..	..	..	..	91
	2018	187	..	..	..	..	92
Kyrgyzstan	2015	130	..	..	..	..	..
	2016	43	..	..	..	..	..
	2017	60	..	..	..	..	..
	2018	96	..	..	..	..	..
Lao People's Dem. Rep.	2015	53,348	..	..	3,147	..	6,050
	2016	*52,920	..	..	3,147	..	*6,048
	2017	53,063	..	..	*3,286	..	*6,048
	2018	52,710	..	..	*3,220	..	*6,136

Table 12

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	..	..	..	0	16,698
..	..	..	..	0	16,232
..	..	..	..	..	15,277
..	..	..	..	..	11,399
..	..	..	..	..	7,906,700
..	..	..	..	..	8,063,161
..	..	..	..	..	8,138,102
..	..	..	..	..	*7,662,018
..	..	..	65,600	..	1,671,777
..	..	..	145,091	..	1,667,239
..	..	..	135,568	..	1,606,025
..	..	..	270,590	..	1,634,161
..	..	..	..	127	82,796
..	..	..	..	282	*83,851
..	..	..	..	288	*84,172
..	..	..	..	288	*83,830
..	..	..	..	..	1,935
..	..	..	..	..	2,148
..	..	..	..	..	1,982
..	..	..	..	..	1,977
..	..	..	..	559	742
..	..	..	..	795	978
..	..	..	..	960	1,143
..	..	..	..	878	1,061
155,149	52,048	54	515	1,675	519,078
221,960	31,100	54	442	5,844	537,020
235,175	28,752	0	442	4,495	580,400
251,446	30,804	..	442	8,708	607,486
..	..	..	..	90	3,223
..	..	..	..	100	3,297
..	..	..	..	100	3,361
..	..	..	..	*100	3,425
..	..	..	..	..	2,202
..	..	..	..	..	2,202
..	..	..	..	..	2,202
..	..	..	..	19	2,189
..	..	..	..	..	46,152
..	..	..	..	..	46,381
..	..	..	..	..	46,604
..	..	..	..	..	46,740
88,702	40,708	8,686	15,198	7,726	239,714
109,305	39,467	10,823	17,995	6,955	262,013
134,086	39,798	9,426	19,320	7,333	295,074
108,143	40,155	12,056	23,515	7,406	287,913
..	..	..	..	..	181
..	..	..	..	..	183
..	..	..	..	..	185
..	..	..	..	..	187
..	..	..	..	..	130
..	..	..	..	..	43
..	..	..	..	..	60
..	..	..	..	..	96
..	..	..	..	..	56,495
..	..	..	..	..	*56,067
..	..	..	..	..	56,349
..	..	..	..	..	55,930

Table 12

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Lebanon	2015	4,971	..	..	..	..	89
	2016	4,971	..	..	..	..	89
	2017	*4,971	..	..	..	..	89
	2018	*4,971	..	..	..	..	89
Malaysia	2015	23,526	..	9,878	226	..	864
	2016	23,146	..	9,878	2,394	..	864
	2017	22,780	..	*8,196	*2,394	..	864
	2018	22,425	..	*12,581	*2,394	..	867
Maldives	2015	148	..	..	..	..	25
	2016	149	..	..	..	..	25
	2017	149	..	..	..	..	26
	2018	150	..	..	..	..	26
Mongolia	2015	5,481	..	..	..	..	..
	2016	5,481	..	..	..	..	..
	2017	5,481	..	..	..	..	..
	2018	5,481	..	..	..	..	..
Myanmar	2015	426,663	..	25,637	2,494	..	856
	2016	429,209	..	25,790	*2,494	..	856
	2017	431,655	..	25,943	*2,494	..	856
	2018	432,788	..	26,005	*2,494	..	856
Nepal	2015	351,565	18,338	17,333	11,688	..	295
	2016	355,065	18,504	17,505	11,729	..	295
	2017	361,118	18,579	17,804	11,821	..	325
	2018	367,144	18,889	18,101	*11,833	..	325
Oman	2015	414	..	..	..	..	200
	2016	425	..	..	..	..	205
	2017	436	..	..	..	..	210
	2018	436	..	..	..	..	210
Other Asia	2015	8,058	..	..	..	..	..
	2016	6,888	..	..	..	..	..
	2017	6,281	..	..	..	..	..
	2018	6,183	..	..	..	..	..
Pakistan	2015	269,784	..	*172,034	126,411	..	2,418
	2016	269,784	..	*175,506	141,268	..	2,466
	2017	269,784	..	*178,970	*141,268	..	2,516
	2018	269,784	..	*178,971	*149,508	..	2,567
Philippines	2015	175,999	543	39,317	22,365	..	55,976
	2016	171,236	549	38,750	27,819	..	58,690
	2017	170,958	557	38,808	32,046	..	60,800
	2018	170,692	565	38,473	33,588	..	63,042
Qatar	2015	47	..	..	..	..	23
	2016	47	..	..	..	..	23
	2017	47	..	..	..	..	23
	2018	47	..	..	..	..	23
Singapore	2015	276	..	..	..	..	146
	2016	271	..	..	..	..	143
	2017	267	..	..	..	..	141
	2018	262	..	..	..	..	139
Sri Lanka	2015	156,317	..	..	1,517	..	..
	2016	150,651	..	..	1,862	..	..
	2017	148,807	..	..	1,470	..	..
	2018	*148,885	..	..	*1,693	..	..
State of Palestine	2015	3,135	..	*625	..	..	..
	2016	3,460	..	564	..	..	..
	2017	1,964	..	588	..	..	..
	2018	2,022	..	398	..	..	..

Table 12

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	..	..	..	..	4,971
..	..	..	..	..	4,971
..	..	..	..	..	*4,971
..	..	..	..	..	*4,971
..	..	..	24,766	..	58,396
..	..	..	18,437	..	53,855
..	..	..	16,928	..	50,298
..	..	..	25,502	..	62,903
..	..	..	..	..	148
..	..	..	..	..	149
..	..	..	..	..	149
..	..	..	..	..	150
..	..	..	..	..	5,481
..	..	..	..	..	5,481
..	..	..	..	..	5,481
..	..	..	..	..	5,481
..	..	..	..	..	454,794
..	..	..	..	..	457,493
..	..	..	..	..	460,092
..	..	..	..	1	461,288
..	..	..	..	11,688	410,612
..	..	..	..	11,729	414,532
..	..	..	..	11,821	421,143
..	..	..	..	12,019	427,985
..	..	..	..	..	414
..	..	..	..	..	425
..	..	..	..	..	436
..	..	..	..	..	436
..	56,994	1,214	..	259	66,525
..	55,944	438	..	295	63,565
..	54,370	186	..	272	61,109
..	56,726	8	..	267	63,184
..	..	..	..	..	568,229
..	..	..	..	..	586,558
..	..	..	..	..	*590,022
..	..	..	..	..	*598,263
..	955	6,172	6,496	..	251,848
..	447	8,314	7,050	..	254,165
..	527	8,608	6,591	..	258,095
..	543	11,130	6,645	..	261,636
..	..	..	..	..	47
..	..	..	..	..	47
..	..	..	..	..	47
..	..	..	..	..	47
..	27,830	..	..	..	28,105
..	27,436	..	..	..	27,707
..	26,742	..	..	..	27,009
..	24,819	..	..	..	25,082
..	..	..	..	..	157,833
..	..	..	..	..	152,512
..	..	..	..	..	150,277
..	..	..	..	..	*150,579
..	..	..	..	..	3,760
..	..	..	..	..	4,024
..	..	..	..	..	2,552
..	..	..	..	..	2,420

Table 12

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Syrian Arab Republic	2015	238	..	..	..	..	30
	2016	236	..	..	..	..	30
	2017	234	..	..	..	..	30
	2018	217	..	..	..	..	30
Tajikistan	2015	*50,225	..	..	..	..	..
	2016	50,225	..	..	..	..	..
	2017	*50,225	..	..	..	..	..
	2018	*50,225	..	..	..	..	..
Thailand	2015	504,764	..	212,343	225,232	9,947	126,939
	2016	345,454	..	448,520	271,799	9,291	91,539
	2017	315,620	..	391,430	262,756	12,581	78,057
	2018	233,303	..	312,620	364,892	21,121	43,159
Timor-Leste	2015	886	..	..	..	..	..
	2016	850	..	..	..	..	..
	2017	813	..	..	..	..	..
	2018	776	..	..	..	..	..
Turkey	2015	77,791	..	40,163	..	..	..
	2016	68,831	..	40,551	..	..	..
	2017	56,773	..	45,407	..	..	..
	2018	40,654	..	32,226	..	..	..
Turkmenistan	2015	100	..	..	..	..	..
	2016	100	..	..	..	..	..
	2017	121	..	..	..	..	..
	2018	121	..	..	..	..	..
Uzbekistan	2015	*1,307	..	..	..	..	..
	2016	*1,763	..	..	..	..	..
	2017	*924	..	..	..	..	..
	2018	*926	..	..	..	..	..
Viet Nam	2015	602,389	..	..	34,609	..	15,517
	2016	616,245	..	..	33,040	..	15,517
	2017	603,615	..	..	*31,545	..	15,517
	2018	324,561	..	..	*48,538	..	15,340
Yemen	2015	4,886	..	..	..	..	2,331
	2016	4,999	..	..	..	..	2,390
	2017	5,120	..	..	..	..	2,449
	2018	5,306	..	..	..	..	2,537
Europe	2015	3,492,847	13,639	317,828	15,698	510,313	11,827
	2016	3,585,291	14,900	283,716	19,572	524,767	13,351
	2017	3,612,196	12,517	311,779	20,322	543,284	13,984
	2018	3,663,265	14,529	305,816	19,886	543,927	13,541
Albania	2015	8,960	..	..	..	..	..
	2016	7,787	..	..	..	..	..
	2017	6,959	..	..	..	..	..
	2018	6,710	..	..	..	..	..
Andorra	2015	..	..	..	..	..	..
	2016	..	..	..	..	..	..
	2017	..	..	..	..	..	..
	2018	..	..	..	..	..	..
Austria	2015	152,102	..	9,631	..	28,396	30
	2016	153,635	..	8,878	..	32,785	30
	2017	160,979	..	8,718	..	32,663	30
	2018	150,748	..	8,255	..	33,651	30
Belarus	2015	68,924	..	2,701	..	..	89
	2016	68,613	..	2,403	..	..	118
	2017	75,446	..	2,345	..	..	89
	2018	60,492	..	2,084	..	..	89

Table 12

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	..	..	..	..	238
..	..	..	..	..	236
..	..	..	..	..	234
..	..	..	..	..	217
..	..	..	..	..	*50,225
..	..	..	..	..	50,225
..	..	..	..	..	*50,225
..	..	..	..	..	*50,225
..	9,508	24,951	39,192	29,749	1,055,686
..	4,395	25,889	39,008	33,341	1,177,697
..	4,183	31,088	45,190	37,778	1,100,627
..	8,029	31,570	49,790	51,723	1,073,050
..	..	..	..	..	886
..	..	..	..	..	850
..	..	..	..	..	813
..	..	..	..	..	776
1,362	..	1,796	2,539	11,119	134,770
2,067	..	1,930	2,318	14,721	130,418
2,446	..	2,117	2,466	17,569	126,778
35,672	171	2,037	4,011	20,496	135,268
..	..	..	..	..	100
..	..	..	..	..	100
..	..	..	..	..	121
..	..	..	..	..	121
..	..	..	..	..	*1,307
..	..	..	..	..	*1,763
..	..	..	..	..	*924
..	..	..	..	..	*926
..	..	..	..	..	636,998
..	..	..	..	..	649,285
..	..	..	..	..	635,160
..	..	..	..	..	373,099
..	..	..	..	..	4,886
..	..	..	..	..	4,999
..	..	..	..	..	5,120
..	..	..	..	..	5,306
387,519	830,026	112,888	452,720	659,972	6,793,449
429,385	878,862	116,677	447,746	690,757	6,991,673
410,810	904,403	122,188	508,870	706,931	7,153,299
450,613	906,657	125,346	531,466	708,711	7,270,215
..	..	..	..	..	8,960
..	..	..	..	..	7,787
..	..	..	..	..	6,959
..	..	..	..	..	6,710
..	*248	..	..	..	*248
..	*255	..	..	..	*255
..	*306	..	..	..	*306
..	*366	..	..	..	*366
16,092	19,347	5,655	12,586	12,628	256,436
16,943	21,169	5,709	11,040	12,790	262,949
16,538	18,623	5,682	9,090	13,273	265,566
15,330	19,440	5,253	8,538	9,781	250,996
1,157	..	..	810	398	73,989
1,286	..	..	736	390	73,428
1,187	..	..	736	468	80,182
1,319	..	..	515	498	64,908

Table 12

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Belgium	2015	42,117	266	3,894	..	1,666	..
	2016	45,175	783	3,792	..	1,762	..
	2017	41,907	841	4,083	..	1,732	..
	2018	42,353	741	4,015	..	1,817	..
Bosnia and Herzegovina	2015	30,354	..	..	..	..	1,298
	2016	30,729	..	..	..	..	1,328
	2017	28,596	..	..	..	..	1,180
	2018	60,650	..	..	..	..	885
Bulgaria	2015	45,681	..	2,603	..	2,898	177
	2016	42,194	..	1,261	..	4,733	118
	2017	41,930	..	1,103	..	5,104	59
	2018	51,470	..	8,079	..	4,273	59
Croatia	2015	63,861	..	19	..	..	236
	2016	64,080	..	32	..	..	266
	2017	64,565	..	19	..	..	266
	2018	62,621	..	32	..	..	295
Czechia	2015	102,917	..	5,581	..	15,196	..
	2016	103,427	..	5,789	..	15,114	..
	2017	103,824	..	6,379	..	15,281	..
	2018	108,298	..	5,576	..	14,675	..
Denmark	2015	46,757	..	19,824	..	..	..
	2016	46,576	..	19,921	..	..	..
	2017	*51,961	..	20,400	..	..	..
	2018	56,429	..	17,840	..	..	..
Estonia	2015	41,571	..	7,721	..	1,340	..
	2016	50,850	..	6,206	..	1,385	..
	2017	51,714	..	9,175	..	1,382	..
	2018	55,681	..	11,914	..	1,404	..
Finland	2015	187,269	244	1,230	..	142,056	..
	2016	200,688	239	1,684	..	146,307	..
	2017	202,373	212	1,698	..	154,761	..
	2018	201,498	308	1,773	..	167,032	..
France	2015	364,489	2,850	7,369	5,879	35,992	..
	2016	396,458	2,164	6,395	6,126	35,462	..
	2017	383,454	2,193	6,017	5,931	35,747	..
	2018	381,782	2,340	6,402	5,599	31,967	..
Germany	2015	475,843	3,916	7,610	..	29,219	974
	2016	454,508	6,068	7,020	..	25,910	974
	2017	454,708	3,660	8,477	..	31,453	974
	2018	444,222	3,653	14,692	..	26,710	974
Greece	2015	30,587	..	9,293	..	..	30
	2016	26,947	..	6,440	..	..	30
	2017	27,655	..	6,199	..	..	30
	2018	25,977	..	6,769	..	..	59
Hungary	2015	91,443	291	13,222	..	265	..
	2016	87,340	323	12,624	..	283	..
	2017	86,860	256	11,526	..	310	..
	2018	76,209	241	12,509	..	303	..
Iceland	2015	455	..	..	..	..	..
	2016	465	..	..	..	..	..
	2017	680	..	..	..	..	..
	2018	902	..	..	..	..	..
Ireland	2015	7,223	1,203	..	..	..	..
	2016	8,621	866	..	..	..	..
	2017	9,339	955	..	..	..	..
	2018	9,249	1,091	..	..	..	..

Table 12

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
13,074	30,549	6,543	9,126	9,860	117,096
13,291	30,460	6,354	8,648	9,814	120,079
12,119	30,894	7,293	10,672	9,423	118,963
13,037	30,513	7,614	9,274	9,547	118,911
..	..	..	..	..	30,354
..	..	..	..	..	30,729
..	..	..	..	..	28,596
..	..	..	..	..	60,650
765	631	670	1,766	820	55,834
1,319	1,061	724	2,282	2,511	56,084
1,621	1,240	590	3,386	1,958	56,931
2,990	1,520	456	4,674	2,245	75,707
390	..	..	626	1,507	66,403
425	..	..	37	1,952	66,526
483	..	..	0	2,672	67,739
818	..	..	..	3,081	66,552
9,382	5,570	2,814	6,182	25,681	173,323
10,361	5,968	3,109	5,483	25,161	174,412
10,228	6,422	2,734	5,778	25,444	176,089
12,061	6,115	2,010	7,139	25,279	181,153
..	34,812	411	..	6,285	108,089
..	34,271	192	..	9,048	110,008
..	35,609	137	..	11,053	119,160
..	33,562	164	..	13,414	121,409
..	2,819	..	..	550	54,001
..	2,944	..	..	722	62,107
..	3,030	..	..	540	65,841
611	2,117	..	..	571	72,298
1,758	19,742	999	15,309	4,321	372,928
1,644	22,201	1,288	3,864	4,694	382,609
2,001	23,808	1,288	11,003	7,147	404,291
2,048	24,865	1,233	10,157	7,796	416,710
19,879	102,878	26,403	89,571	30,388	685,698
19,751	108,498	24,451	83,278	32,678	715,262
15,715	107,544	23,589	89,608	34,356	704,154
19,833	111,088	26,564	99,323	36,737	721,635
52,659	250,720	20,521	113,528	314,418	1,268,434
59,095	259,750	21,419	114,779	320,998	1,269,547
54,307	269,372	21,180	118,054	323,250	1,284,461
46,695	259,778	19,596	123,059	319,497	1,257,902
3,732	..	..	5,410	3,826	52,848
2,517	..	..	5,594	4,258	45,756
0	..	..	5,667	4,484	44,005
1,213	..	..	6,330	4,724	45,013
2,520	4,728	10,613	5,373	3,335	131,790
3,546	4,470	11,417	5,741	3,708	129,452
3,777	3,606	11,792	5,814	4,141	128,082
4,322	3,417	12,757	5,925	3,850	119,533
..	..	..	..	69	524
..	..	..	..	71	536
..	..	..	..	76	756
..	..	..	..	78	980
..	5,265	..	994	2,287	16,972
..	5,467	..	994	2,294	18,242
..	9,606	..	1,067	2,286	23,253
..	11,953	..	1,104	2,108	25,505

Table 12

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Isle of Man	2015	..	..	..	..	..	..
	2016	..	..	..	..	..	..
	2017	..	..	..	..	..	..
	2018	..	..	..	..	..	..
Italy	2015	297,890	..	*9,433	..	..	295
	2016	293,118	..	*9,672	..	..	295
	2017	317,411	..	*10,247	..	..	295
	2018	284,621	..	*11,211	..	..	295
Jersey	2015	..	..	..	..	..	..
	2016	..	..	..	..	..	..
	2017	..	..	..	..	..	..
	2018	..	..	..	..	..	..
Kosovo	2015	10,721	..	..	..	..	..
	2016	14,823	..	..	..	..	..
	2017	15,305	..	..	..	..	..
	2018	15,415	..	..	..	..	..
Latvia	2015	83,986	..	135	..	..	325
	2016	86,776	..	136	..	..	354
	2017	85,124	..	234	..	..	384
	2018	102,172	..	277	..	..	266
Liechtenstein	2015	209	..	..	..	..	..
	2016	202	..	..	..	..	..
	2017	189	..	..	..	..	..
	2018	225	..	..	..	..	..
Lithuania	2015	50,437	..	585	..	..	30
	2016	50,378	..	731	..	..	30
	2017	54,681	..	721	..	..	..
	2018	51,111	..	1,175	..	..	30
Luxembourg	2015	2,175	..	217	..	..	..
	2016	2,461	..	186	..	..	..
	2017	2,727	..	201	..	..	..
	2018	3,630	..	208	..	..	..
Malta	2015	..	..	..	..	..	..
	2016	..	..	..	..	..	..
	2017	..	..	..	..	..	..
	2018	..	..	..	..	..	..
Montenegro	2015	8,304	..	..	..	..	18
	2016	8,395	..	..	..	..	24
	2017	9,235	..	..	..	..	21
	2018	7,964	..	..	..	..	18
Netherlands	2015	40,509	..	13,534	..	..	..
	2016	41,401	..	12,842	..	..	..
	2017	40,729	..	16,326	..	..	..
	2018	44,571	..	11,457	..	..	..
North Macedonia	2015	13,431	..	203	..	..	..
	2016	11,817	..	199	..	..	..
	2017	12,072	..	223	..	..	..
	2018	10,103	..	276	..	..	..
Norway	2015	35,977	..	..	..	..	..
	2016	35,715	..	..	..	..	..
	2017	36,657	..	..	..	425	..
	2018	36,378	..	..	..	369	..
Poland	2015	204,512	..	60,674	..	11,013	..
	2016	206,522	..	50,806	..	11,249	..
	2017	200,861	..	47,616	..	11,574	..
	2018	200,785	377	45,408	..	10,788	..

Table 12

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	*389	..	..	..	*389
..	*411	..	..	..	*411
..	*396	..	..	..	*396
..	*546	..	..	..	*546
12,696	70,840	5,392	21,234	78,355	495,839
13,082	72,908	7,579	21,197	78,505	496,061
11,765	71,444	8,071	25,466	79,453	523,857
11,989	70,894	9,005	27,674	79,221	494,615
..	*732	..	..	..	*732
..	*813	..	..	..	*813
..	*799	..	..	..	*799
..	*760	..	..	..	*760
..	..	..	..	..	10,721
..	..	..	..	..	14,823
..	..	..	..	..	15,305
..	..	..	..	..	15,415
84	256	80	2,429	3,674	90,644
113	256	134	1,656	3,762	92,833
73	362	241	1,950	3,902	91,887
119	558	214	3,238	3,643	110,222
..	*691	..	..	22	*923
..	*706	..	..	20	*929
..	*703	..	..	23	*914
..	*759	..	..	24	*1,008
303	1,337	429	4,342	981	58,414
486	2,495	375	3,790	1,341	59,597
183	2,476	348	4,342	1,350	64,102
595	1,692	456	5,667	1,554	62,250
569	1,365	..	..	739	5,065
546	1,400	..	..	833	5,426
578	1,557	..	..	867	5,930
624	1,552	..	..	915	6,929
..	..	..	37	77	114
..	..	..	37	80	117
..	..	..	..	77	77
..	..	..	..	69	69
..	..	..	..	..	8,304
..	..	..	..	..	8,395
..	..	..	..	..	9,235
..	..	..	..	..	7,964
..	60,173	..	59,947	13,693	187,856
..	61,527	..	53,802	13,339	182,911
..	60,374	..	70,987	13,432	201,848
..	60,110	1,671	67,675	13,655	199,140
..	..	..	80	..	13,713
..	..	..	0	..	12,016
..	..	..	0	..	12,295
..	..	..	0	..	10,379
3,519	15,202	..	..	1,100	55,798
3,356	14,965	..	2,208	1,200	57,444
3,192	15,558	..	4,158	1,535	61,525
3,525	16,479	..	3,717	2,219	62,687
16,997	6,593	4,718	28,962	9,581	343,050
18,795	15,484	5,281	33,046	10,930	352,113
22,229	18,078	5,174	33,010	11,747	350,288
27,023	19,412	5,040	32,642	12,072	353,546

Table 12

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Portugal	2015	59,877	..	7,606	322	41,179	236
	2016	61,818	..	3,196	428	43,610	266
	2017	58,938	..	5,888	313	44,530	266
	2018	57,515	..	10,670	..	43,232	266
Republic of Moldova	2015	18,815	158	7,736	..	..	30
	2016	21,539	12	7,246	..	..	30
	2017	26,284	6	4,936	..	..	30
	2018	28,063	11	4,559	..	..	12
Romania	2015	147,416	..	..	..	..	177
	2016	149,864	..	..	..	..	67
	2017	149,227	..	..	..	..	36
	2018	144,164	..	..	..	..	33
Russian Federation	2015	118,109	..	..	..	..	1,543
	2016	121,911	..	..	..	..	2,065
	2017	107,613	..	..	..	..	2,163
	2018	119,089	..	..	..	..	2,328
Serbia	2015	46,240	..	..	..	..	354
	2016	46,259	..	..	..	..	443
	2017	45,477	..	..	..	..	585
	2018	46,936	..	..	..	..	413
Slovakia	2015	17,277	..	6,813	..	13,164	118
	2016	19,118	..	2,153	..	13,672	103
	2017	18,957	..	2,137	..	14,125	118
	2018	22,518	..	2,620	..	12,861	30
Slovenia	2015	24,436	..	273	..	..	..
	2016	25,242	..	236	..	..	..
	2017	24,525	..	245	..	..	..
	2018	22,768	..	217	..	..	..
Spain	2015	142,420	449	43,829	9,497	24,039	1,062
	2016	145,115	449	38,520	13,018	25,917	1,062
	2017	148,741	449	38,923	14,078	26,942	1,062
	2018	145,978	449	39,060	14,287	28,017	1,062
Sweden	2015	216,259	76	..	..	163,890	..
	2016	227,021	52	..	..	166,578	..
	2017	230,319	103	..	..	167,254	..
	2018	219,560	106	..	..	166,828	..
Switzerland	2015	38,060	..	..	..	..	..
	2016	41,350	..	..	..	..	..
	2017	40,590	..	..	..	..	..
	2018	39,990	..	..	..	..	..
Ukraine	2015	87,769	..	..	..	..	4,809
	2016	114,133	..	..	..	..	5,753
	2017	121,861	..	..	..	..	6,402
	2018	185,678	..	..	..	..	6,402
United Kingdom	2015	67,466	4,186	76,092	..	..	..
	2016	72,220	3,944	75,348	..	..	..
	2017	71,724	3,842	97,943	..	..	..
	2018	78,738	5,212	78,738	..	..	..
Oceania	2015	133,425	..	9,338	139,114	20,521	405
	2016	135,914	..	9,352	136,071	20,073	410
	2017	180,037	..	11,439	115,711	15,727	416
	2018	175,400	..	13,730	105,139	15,220	420
Australia	2015	31,646	..	1,006	132,643	20,521	..
	2016	34,649	..	933	131,669	20,073	..
	2017	76,467	..	3,018	110,298	*15,727	..
	2018	73,548	..	5,257	100,228	15,220	..

Table 12

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
1,011	8,155	110	13,211	3,457	134,928
2,961	8,680	82	12,291	3,364	136,430
2,657	8,739	..	13,174	3,561	137,800
3,233	8,121	..	13,358	3,453	139,583
0	..	0	..	401	27,110
82	..	0	..	361	29,240
93	..	..	..	282	31,601
0	..	..	..	313	32,946
2,968	159	1,045	5,520	767	157,875
3,164	193	1,528	6,293	739	161,780
3,845	207	1,179	6,146	755	161,359
7,203	188	938	6,918	865	160,276
198,890	..	..	..	..	316,999
218,670	..	..	..	..	340,581
215,266	..	..	..	..	322,879
244,991	..	..	..	..	364,080
36	..	..	..	242	46,518
45	..	..	..	307	46,611
44	..	..	..	723	46,244
49	..	..	..	958	47,943
6,905	1,668	3,002	3,901	6,223	58,952
7,583	1,530	3,136	4,048	6,357	57,597
7,283	2,214	3,136	4,011	6,384	58,247
6,784	1,161	3,296	4,048	6,228	59,516
1,802	..	..	0	1,242	27,753
1,876	..	..	..	1,264	28,618
2,139	..	..	..	1,076	27,985
2,530	..	..	..	1,018	26,533
..	21,102	10,479	40,958	10,954	303,727
..	19,698	6,968	50,048	10,264	309,997
..	21,744	8,871	64,842	10,943	335,532
2,971	21,280	11,068	63,259	11,089	337,459
749	57,172	5,447	5,115	7,009	455,717
746	59,857	6,802	4,011	7,265	472,332
748	62,730	6,600	2,429	7,445	477,628
755	58,296	6,915	9,494	7,359	469,313
10,234	46,430	..	221	4,585	99,530
10,790	48,150	..	258	4,898	105,446
12,500	48,350	..	294	5,087	106,821
10,870	48,750	..	221	5,238	105,069
..	..	482	..	600	88,851
..	..	161	..	1,367	115,660
2,507	..	563	..	1,601	126,532
..	..	107	..	1,995	187,780
9,348	60,453	7,075	5,483	99,897	330,000
16,912	73,275	9,970	12,586	113,472	377,726
7,732	78,612	13,722	17,186	116,117	406,877
7,075	91,364	10,988	17,517	117,617	407,249
3,899	..	5,393	5,078	19,818	336,586
3,915	..	4,912	1,987	20,773	332,997
3,771	..	4,160	147	18,264	349,256
3,785	..	5,125	37	19,414	337,850
3,899	..	5,226	5,078	16,693	216,712
3,915	..	4,770	1,987	17,471	215,468
3,771	..	4,020	147	14,970	228,418
3,785	..	4,985	37	16,103	219,163

Table 12

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Fiji	2015	338	..	..	5,591	..	72
	2016	338	..	..	3,521	..	73
	2017	338	..	..	4,533	..	73
	2018	338	..	..	*4,031	..	73
French Polynesia	2015	42	..	..	..	..	16
	2016	42	..	..	..	..	16
	2017	42	..	..	..	..	16
	2018	42	..	..	..	..	16
Kiribati	2015	29	..	*500	..	..	11
	2016	30	..	*502	..	..	12
	2017	30	..	*510	..	..	12
	2018	30	..	*512	..	..	12
Marshall Islands	2015	..	..	*185	..	..	..
	2016	..	..	*190	..	..	..
	2017	..	..	*194	..	..	..
	2018	..	..	*195	..	..	..
Micronesia (Fed. States of)	2015	24	..	..	..	..	11
	2016	24	..	..	..	..	11
	2017	24	..	..	..	..	11
	2018	24	..	..	..	..	11
New Caledonia	2015	115	..	..	..	..	18
	2016	115	..	..	..	..	18
	2017	115	..	..	..	..	18
	2018	117	..	..	..	..	19
New Zealand	2015	47,456	..	..	..	..	..
	2016	47,001	..	..	..	..	..
	2017	49,310	..	..	..	..	..
	2018	47,585	..	..	..	..	..
Niue	2015	1	..	..	..	..	0
	2016	1	..	..	..	..	0
	2017	1	..	..	..	..	0
	2018	1	..	..	..	..	0
Papua New Guinea	2015	50,544	..	*5,263	880	..	195
	2016	50,544	..	*5,263	880	..	198
	2017	50,544	..	*5,263	*880	..	201
	2018	50,544	..	*5,315	*880	..	203
Samoa	2015	1,160	..	306	..	..	15
	2016	1,097	..	385	..	..	16
	2017	*1,089	..	*377	..	..	16
	2018	*1,089	..	*377	..	..	*15
Solomon Islands	2015	1,220	..	*2,079	..	..	42
	2016	1,223	..	*2,079	..	..	42
	2017	1,227	..	*2,078	..	..	43
	2018	1,231	..	*2,074	..	..	44
Tonga	2015	19	..	..	..	..	7
	2016	19	..	..	..	..	7
	2017	19	..	..	..	..	7
	2018	19	..	..	..	..	7
Vanuatu	2015	831	..	..	..	..	18
	2016	831	..	..	..	..	18
	2017	831	..	..	..	..	19
	2018	831	..	..	..	..	19

Table 12

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	..	..	..	..	5,929
..	..	..	..	..	3,859
..	..	..	..	..	4,871
..	..	..	..	..	*4,369
..	..	..	..	..	42
..	..	..	..	..	42
..	..	..	..	..	42
..	..	..	..	..	42
..	..	..	..	..	*529
..	..	..	..	..	*532
..	..	..	..	..	*540
..	..	..	..	..	*542
..	..	..	..	..	*185
..	..	..	..	..	*190
..	..	..	..	..	*194
..	..	..	..	..	*195
..	..	..	..	..	24
..	..	..	..	..	24
..	..	..	..	..	24
..	..	..	..	..	24
..	..	*5	..	..	120
..	..	*7	..	..	122
..	..	*5	..	..	120
..	..	*5	..	..	123
..	..	107	..	3,125	50,688
..	..	107	..	3,302	50,410
..	..	107	..	3,294	52,711
..	..	107	..	3,311	51,003
..	..	..	..	..	1
..	..	..	..	..	1
..	..	..	..	..	1
..	..	..	..	..	1
..	..	..	..	..	56,687
..	..	..	..	..	56,687
..	..	..	..	..	56,687
..	..	..	..	..	56,739
..	..	..	..	0	1,466
..	..	..	..	0	1,482
..	..	..	..	0	*1,466
..	..	..	..	0	*1,466
..	..	..	..	..	*3,299
..	..	..	..	..	*3,302
..	..	..	..	..	*3,305
..	..	..	..	..	*3,305
..	..	..	..	..	19
..	..	..	..	..	19
..	..	..	..	..	19
..	..	..	..	..	19
..	..	*55	..	..	886
..	..	*27	..	..	859
..	..	*27	..	..	859
..	..	*27	..	..	859

Table 13

Production, trade and supply of conventional crude oil

Thousand metric tons; kilograms per capita; reserves production ratio (R/P) in years

Table Notes

The **Reserves / Production** ratio refers to crude oil and natural gas liquids.

Data on reserves were taken from the Survey of Energy Resources, World Energy Council.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description/classification, and xvi to xvii for the descriptions of relevant flows.

Figure 36: Production of conventional crude oil by region, 1990-2018

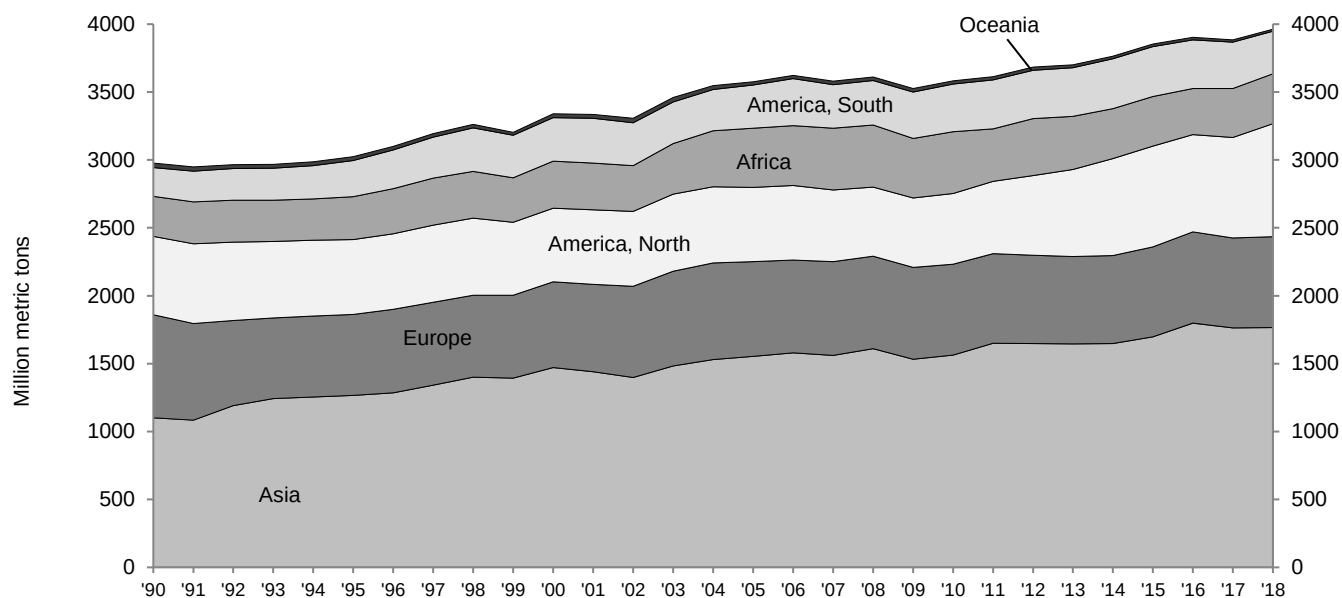


Figure 37: Exports of conventional crude oil by region, 1990-2018

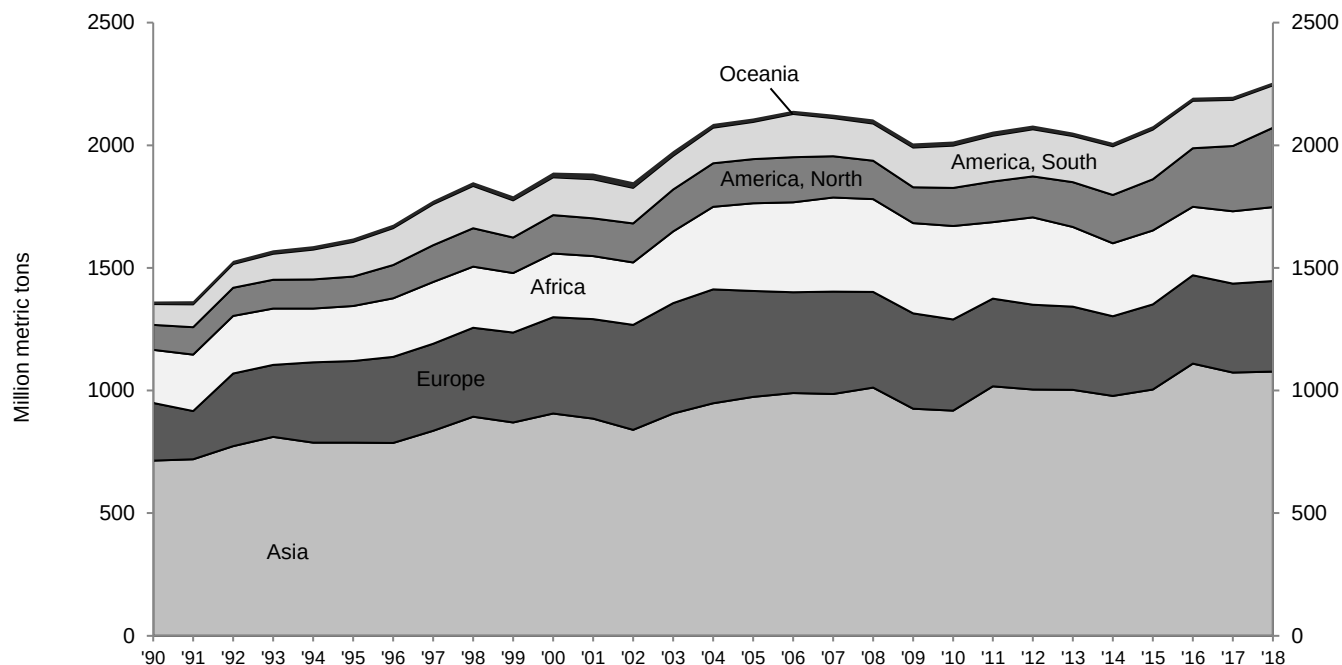


Figure 38: Production, trade and supply of conventional crude oil by region, 2018

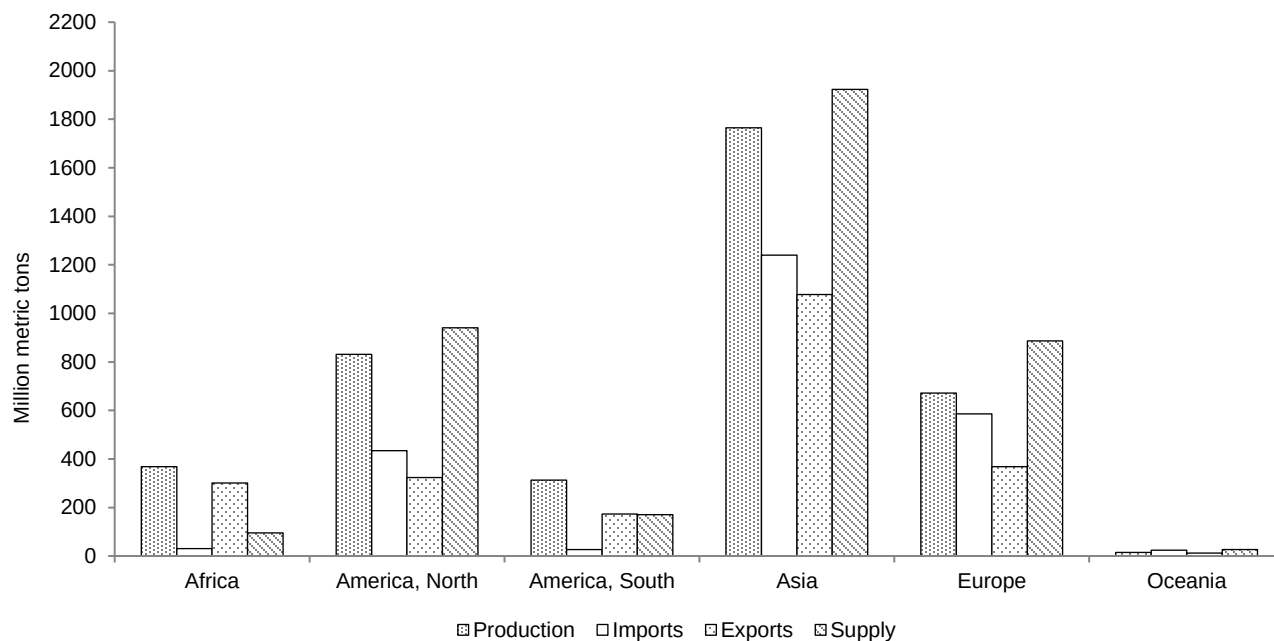


Figure 39: Major crude oil producing countries, 2018

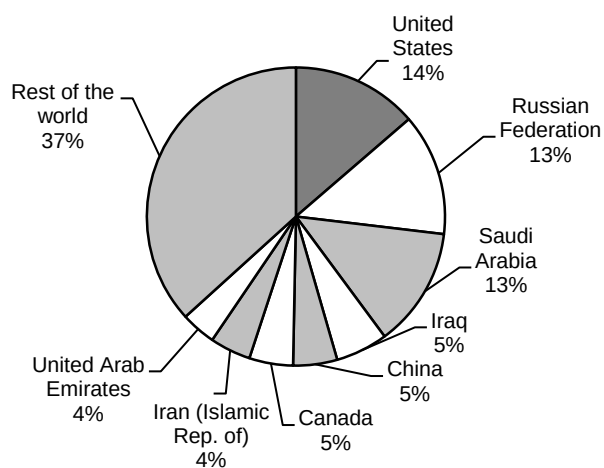


Figure 40: Major crude oil consuming countries, 2018

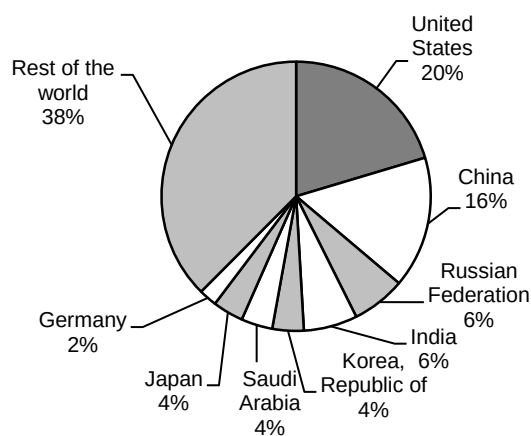


Table 13

Production, trade and supply of conventional crude oil

Thousand metric tons; kilograms per capita; reserves/production ratio (R/P) in years

Country or area	Year	Production		Imports	Exports	Changes in stocks	Supply	
		Total	Reserves/ Production				Total	Per capita
World	2015	3,854,314	52	2,180,552	2,078,447	22,861	3,933,558	533
	2016	3,902,891	51	2,257,795	2,193,825	4,378	3,962,483	531
	2017	3,883,443	51	2,327,598	2,197,535	-12,135	4,025,642	533
	2018	3,962,764	50	2,341,934	2,255,981	6,791	4,041,926	530
Africa	2015	364,723	43	32,057	301,925	-2,074	96,929	82
	2016	340,767	46	36,085	278,657	-100	98,294	81
	2017	360,788	43	30,440	295,466	862	94,901	76
	2018	367,819	43	31,227	301,224	2,298	95,525	75
Algeria	2015	49,184	23	267	24,181	-578	25,848	651
	2016	50,945	22	233	25,227	-82	26,033	642
	2017	49,468	23	222	24,677	287	24,726	597
	2018	48,588	23	204	21,676	-247	27,363	648
Angola	2015	88,131	19	..	85,253	*278	2,600	93
	2016	85,497	20	..	82,936	*-225	2,786	97
	2017	80,843	20	..	78,088	*-438	3,192	107
	2018	73,245	22	..	70,606	-204	2,842	92
Cameroon	2015	4,726	4	1,417	4,270	..	1,873	80
	2016	4,673	4	1,354	4,222	..	1,805	75
	2017	3,845	5	1,114	3,474	..	1,485	60
	2018	3,486	5	1,010	3,149	..	1,347	53
Chad	2015	7,200	30	..	6,500	..	700	50
	2016	6,500	33	..	5,800	..	700	48
	2017	5,800	37	..	5,100	..	700	47
	2018	6,500	33	..	5,800	..	700	45
Congo	2015	12,036	15	..	11,320	..	716	147
	2016	11,795	16	..	11,094	-1	702	141
	2017	13,669	14	..	12,856	..	813	159
	2018	16,787	11	..	15,115	849	823	157
Côte d'Ivoire	2015	1,349	10	3,083	1,338	..	3,094	133
	2016	2,188	6	2,601	2,038	..	2,751	115
	2017	2,007	7	2,386	1,870	..	2,523	103
	2018	1,672	8	2,469	1,514	..	2,627	105
Dem. Rep. of the Congo	2015	1,048	23	..	1,048	..	0	0
	2016	996	24	..	996	..	0	0
	2017	1,198	20	..	1,198	..	0	0
	2018	1,334	18	..	1,334	..	0	0
Egypt	2015	33,195	13	3,238	12,399	..	24,034	260
	2016	30,992	14	5,998	11,392	..	25,598	271
	2017	30,417	14	6,283	9,594	..	27,106	281
	2018	30,850	14	6,037	10,559	..	26,328	267
Equatorial Guinea	2015	12,086	12	..	12,026	*-105	165	141
	2016	10,186	14	..	10,197	*-151	140	115
	2017	8,682	16	..	8,727	*-145	100	79
	2018	7,599	18	..	6,934	*565	100	76
Gabon	2015	11,503	24	..	10,701	..	802	412
	2016	11,366	24	..	10,516	..	850	423
	2017	10,499	26	..	9,375	300	824	399
	2018	9,487	29	..	8,664	..	823	388
Ghana	2015	5,351	17	310	5,209	20	432	16
	2016	4,614	20	1,446	4,272	340	1,448	51
	2017	8,380	11	233	8,141	306	166	6
	2018	8,876	10	197	8,860	-194	407	14

Table 13

Production, trade and supply of conventional crude oil

Thousand metric tons; kilograms per capita; reserves/production ratio (R/P) in years

Country or area	Year	Production		Imports	Exports	Changes in stocks	Supply	
		Total	Reserves/ Production				Total	Per capita
Libya	2015	19,340	294	..	14,380	..	4,960	773
	2016	18,193	310	..	14,683	..	3,510	541
	2017	42,322	139	..	37,955	..	4,367	664
	2018	53,338	111	..	48,483	..	4,855	727
Mauritania	2015	264	11	..	*264	..	0	0
	2016	236	13	..	*236	..	0	0
	2017	87	34	..	*87	..	0	0
	2018	0	..	..	0	..	0	0
Morocco	2015	5	50	2,690	..	72	2,623	75
	2016	5	50	..	..	..	5	0
	2017	5	50	..	..	..	5	0
	2018	5	50	..	..	..	5	0
Mozambique	2015	48	42	..	48	..	0	0
	2016	49	41	..	49	..	0	0
	2017	48	42	..	48	..	0	0
	2018	45	44	..	45	..	0	0
Niger	2015	746	27	..	..	-1	746	37
	2016	822	24	..	..	*86	736	35
	2017	911	22	..	..	*32	879	41
	2018	829	24	..	..	..	829	37
Nigeria	2015	103,128	47	..	102,892	-1,581	1,817	10
	2016	88,901	55	..	86,058	-38	2,881	15
	2017	90,529	54	..	86,490	718	3,321	17
	2018	93,117	52	..	90,830	756	1,531	8
Senegal	2015	..	..	1,085	..	-74	1,159	80
	2016	..	..	1,162	..	-68	1,230	82
	2017	..	..	1,200	..	*-119	1,319	86
	2018	..	..	1,024	..	-26	1,050	66
South Africa	2015	255	5	17,973	..	-122	18,350	331
	2016	28	30	20,818	452	..	20,394	363
	2017	32	21	17,103	..	..	17,135	301
	2018	26	22	18,706	..	856	17,876	309
South Sudan	2015	7,388	64	..	7,320	..	68	6
	2016	5,866	81	..	5,796	..	70	6
	2017	6,100	77	..	6,029	..	71	7
	2018	6,400	74	..	6,326	..	74	7
Sudan	2015	5,405	37	472	977	..	4,900	126
	2016	4,718	43	1,103	949	..	4,872	122
	2017	4,095	49	744	167	..	4,673	114
	2018	3,818	53	*450	..	..	4,268	102
Tunisia	2015	2,334	22	879	1,798	17	1,398	125
	2016	2,197	23	886	1,744	39	1,300	115
	2017	1,852	27	635	1,590	-79	976	85
	2018	1,818	28	512	1,329	-57	1,058	91
Zambia	2015	..	..	643	..	..	643	40
	2016	..	..	484	..	..	484	30
	2017	..	..	520	..	..	520	31
	2018	..	..	618	..	..	618	36
America, North	2015	743,162	42	429,652	208,168	11,112	953,534	1,679
	2016	714,441	43	455,015	238,357	3,477	927,622	1,620
	2017	739,641	42	448,436	266,271	-13,314	935,120	1,619
	2018	831,699	37	434,728	323,418	2,311	940,697	1,616

Table 13

Production, trade and supply of conventional crude oil

Thousand metric tons; kilograms per capita; reserves/production ratio (R/P) in years

Country or area	Year	Production		Imports	Exports	Changes in stocks	Supply	
		Total	Reserves/ Production				Total	Per capita
Barbados	2015	34	7	..	34	0	0	0
	2016	34	7	..	34	0	0	0
	2017	32	8	..	32	0	0	0
	2018	30	8	..	28	2	0	0
Belize	2015	77	3	..	59	6	12	34
	2016	66	4	..	49	4	13	35
	2017	53	5	..	39	0	14	36
	2018	44	6	..	29	3	12	31
Canada	2015	154,620	165	45,844	123,175	260	77,029	2,138
	2016	158,046	160	46,689	143,984	-700	61,451	1,689
	2017	170,757	149	40,562	144,695	226	66,398	1,808
	2018	188,258	135	39,311	157,340	355	69,874	1,885
Costa Rica	2015	..	..	..	..	-9	9	2
	2016	..	..	..	..	0	0	0
	2017	..	..	..	..	..	..	..
	2018	..	..	..	..	..	..	..
Cuba	2015	2,822	1	4,408	..	..	7,230	638
	2016	2,619	1	3,712	..	..	6,331	559
	2017	2,522	1	2,840	..	..	5,362	473
	2018	2,463	1	2,550	..	..	5,013	442
Curaçao	2015	..	..	9,232	..	..	9,232	57,754
	2016	..	..	8,091	..	..	8,091	50,237
	2017	..	..	4,357	..	..	4,357	26,897
	2018	..	..	3,250	..	..	3,250	19,969
Dominican Republic	2015	..	..	813	..	6	807	78
	2016	..	..	1,163	..	-2	1,164	112
	2017	..	..	990	..	44	947	90
	2018	..	..	1,245	..	-23	1,268	119
Guatemala	2015	497	22	..	431	2	64	4
	2016	446	25	..	368	22	56	3
	2017	481	23	..	393	0	88	5
	2018	459	24	..	309	14	137	8
Jamaica	2015	..	..	1,396	..	..	1,396	483
	2016	..	..	1,243	..	..	1,243	428
	2017	..	..	1,165	..	..	1,165	399
	2018	..	..	1,035	..	..	1,035	353
Mexico	2015	117,001	12	..	59,932	-354	57,423	471
	2016	111,482	12	..	63,247	128	48,107	390
	2017	100,827	14	..	62,607	561	37,659	302
	2018	95,073	15	192	63,556	993	30,716	243
Nicaragua	2015	..	..	754	..	*-30	784	126
	2016	..	..	619	..	*-40	659	105
	2017	..	..	709	..	*8	701	110
	2018	..	..	648	..	*-30	678	105
Trinidad and Tobago	2015	4,055	22	4,043	1,599	..	6,499	4,743
	2016	3,695	25	5,228	1,449	..	7,474	5,426
	2017	3,702	24	4,554	1,408	..	6,848	4,948
	2018	3,277	28	3,233	1,137	..	5,373	3,866
United States	2015	464,056	12	363,163	22,938	11,231	793,050	2,471
	2016	438,053	13	388,271	29,226	4,065	793,033	2,455
	2017	461,267	12	393,259	57,097	-14,153	811,582	2,497
	2018	542,095	10	383,263	101,019	997	823,342	2,517

Table 13

Production, trade and supply of conventional crude oil

Thousand metric tons; kilograms per capita; reserves/production ratio (R/P) in years

Country or area	Year	Production		Imports	Exports	Changes in stocks	Supply	
		Total	Reserves/ Production				Total	Per capita
America, South	2015	368,120	79	30,676	203,178	1,933	193,685	470
	2016	358,616	81	24,155	193,022	-1,631	191,380	460
	2017	341,343	85	23,708	188,150	-5,271	182,172	434
	2018	312,941	92	26,169	173,245	-3,919	169,785	401
Argentina	2015	27,499	11	837	1,878	246	26,212	609
	2016	26,440	11	820	2,643	-60	24,677	567
	2017	24,766	12	1,117	1,481	78	24,324	554
	2018	25,281	11	396	3,197	31	22,449	506
Bolivia (Plur. State of)	2015	2,404	7	..	0	-31	2,435	224
	2016	2,224	7	..	0	-63	2,287	207
	2017	2,110	7	..	0	-40	2,150	192
	2018	1,967	7	..	..	-73	2,040	180
Brazil	2015	116,835	15	15,273	37,794	1,157	93,157	456
	2016	129,203	14	7,937	43,419	496	93,225	452
	2017	134,534	13	7,415	53,337	-223	88,835	427
	2018	132,713	14	9,530	55,164	152	86,927	415
Chile	2015	244	71	8,297	..	39	8,502	473
	2016	203	82	8,183	..	-49	8,435	463
	2017	169	72	8,468	..	7	8,630	467
	2018	154	53	8,553	..	-52	8,759	468
Colombia	2015	51,841	6	..	40,747	477	10,617	223
	2016	45,796	7	..	32,276	-1,545	15,065	313
	2017	44,029	8	..	32,466	-4,538	16,101	329
	2018	44,619	7	..	30,800	-3,322	17,141	345
Ecuador	2015	27,268	43	0	20,688	-375	6,955	429
	2016	27,610	42	0	19,515	-350	8,445	512
	2017	26,676	44	3	18,351	-558	8,887	529
	2018	26,240	45	..	18,019	-399	8,620	505
Peru	2015	2,854	27	4,223	392	301	6,384	210
	2016	1,991	31	5,188	114	-14	7,079	229
	2017	2,143	31	6,164	77	63	8,167	260
	2018	2,404	31	5,542	319	-230	7,857	246
Suriname	2015	840	14	41	..	3	877	1,569
	2016	814	15	41	..	12	843	1,492
	2017	807	15	14	..	..	821	1,440
	2018	811	15	9	..	..	821	1,425
Uruguay	2015	..	..	2,005	..	116	1,890	554
	2016	..	..	1,986	..	-59	2,045	597
	2017	..	..	527	..	-60	587	171
	2018	..	..	2,139	..	-26	2,165	628
Venezuela (Bolivar. Rep.)	2015	138,335	183	..	101,679	..	36,656	1,219
	2016	124,335	203	..	95,055	..	29,280	981
	2017	106,108	237	..	82,438	..	23,670	805
	2018	78,752	316	..	65,746	..	13,006	450
Asia	2015	1,697,816	63	1,076,587	1,004,039	5,869	1,764,494	398
	2016	1,797,988	59	1,148,888	1,109,695	4,840	1,832,341	409
	2017	1,763,206	60	1,210,259	1,073,868	9,700	1,889,897	418
	2018	1,765,095	61	1,240,432	1,077,373	4,801	1,923,353	422
Azerbaijan	2015	39,035	23	..	32,843	-60	6,252	650
	2016	38,253	23	..	32,479	24	5,750	591
	2017	36,032	25	63	30,488	-23	5,630	572
	2018	35,925	25	..	30,141	-15	5,799	583

Table 13

Production, trade and supply of conventional crude oil

Thousand metric tons; kilograms per capita; reserves/production ratio (R/P) in years

Country or area	Year	Production		Imports	Exports	Changes in stocks	Supply	
		Total	Reserves/ Production				Total	Per capita
Bahrain	2015	10,049	1	10,753	7,453	..	13,349	9,731
	2016	10,102	1	10,476	7,724	..	12,854	9,015
	2017	9,830	1	10,953	7,601	..	13,182	8,823
	2018	9,682	1	10,951	7,693	..	12,940	8,245
Bangladesh	2015	..	14	1,093	..	..	1,093	7
	2016	..	12	1,308	..	..	1,308	8
	2017	..	10	1,687	..	..	1,687	11
	2018	..	10	1,209	..	..	1,209	7
Brunei Darussalam	2015	5,936	23	..	5,763	-96	269	648
	2016	5,431	25	..	5,209	-18	240	572
	2017	4,995	27	..	4,871	-74	198	466
	2018	4,943	27	..	4,571	151	222	517
China	2015	214,556	12	335,483	2,866	6,238	540,935	385
	2016	199,685	13	381,007	2,941	17,428	560,323	396
	2017	191,506	13	419,462	4,861	17,018	589,090	415
	2018	189,324	13	461,886	2,627	10,091	638,492	447
Georgia	2015	40	124	133	153	6	14	4
	2016	39	130	43	18	0	64	16
	2017	32	156	60	7	-5	89	22
	2018	30	166	2	9	1	22	5
India	2015	36,950	19	202,850	..	0	239,800	183
	2016	36,801	19	218,618	..	0	255,419	193
	2017	36,468	19	225,282	..	..	261,750	196
	2018	34,200	20	226,500	..	..	260,700	193
Indonesia	2015	40,324	11	18,431	13,542	884	44,329	172
	2016	40,063	11	17,452	15,131	-2,725	45,109	172
	2017	41,901	11	15,889	12,035	34	45,721	173
	2018	40,691	11	15,404	8,929	1,769	45,397	170
Iran (Islamic Rep. of)	2015	139,415	132	..	56,230	164	83,021	1,058
	2016	187,209	100	..	104,500	0	82,709	1,040
	2017	191,392	97	..	106,951	-20	84,461	1,047
	2018	175,835	104	..	91,446	..	84,389	1,032
Iraq	2015	171,889	112	..	147,539	-2,287	26,637	749
	2016	220,339	87	..	187,360	3,140	29,839	815
	2017	224,404	85	..	186,774	385	37,245	992
	2018	224,404	85	..	189,721	634	34,049	886
Israel	2015	76	26	11,718	..	125	11,669	1,463
	2016	115	17	10,332	..	-385	10,832	1,336
	2017	76	26	11,698	..	649	11,125	1,349
	2018	88	23	11,533	..	-448	12,069	1,440
Japan	2015	205	9	157,858	..	-636	158,699	1,240
	2016	187	9	155,851	..	-1,546	157,584	1,233
	2017	180	10	155,740	..	-896	156,816	1,230
	2018	166	10	149,208	..	442	148,932	1,171
Jordan	2015	0	548	3,513	..	87	3,427	370
	2016	0	563	2,978	..	23	2,955	309
	2017	0	862	2,795	..	16	2,779	284
	2018	1	250	2,366	..	11	2,356	236
Kazakhstan	2015	66,521	49	74	51,886	419	14,290	813
	2016	65,570	50	23	49,774	197	15,622	876
	2017	72,925	46	42	56,684	*57	16,226	897
	2018	90,360	43	25	69,805	442	20,138	1,099

Table 13

Production, trade and supply of conventional crude oil

Thousand metric tons; kilograms per capita; reserves/production ratio (R/P) in years

Country or area	Year	Production		Imports	Exports	Changes in stocks	Supply	
		Total	Reserves/ Production				Total	Per capita
Korea, Dem.Ppl's.Rep.	2015	..	..	532	..	..	532	21
	2016	..	..	532	..	..	532	21
	2017	..	..	532	..	..	532	21
	2018	..	..	532	..	..	532	21
Korea, Republic of	2015	16	..	138,751	..	1,302	137,465	2,705
	2016	15	..	145,537	..	947	144,605	2,836
	2017	30	..	150,613	..	-29	150,672	2,949
	2018	26	..	150,281	..	-2,144	152,451	2,979
Kuwait	2015	144,919	92	..	99,637	..	45,282	11,806
	2016	149,758	89	..	107,879	..	41,879	10,584
	2017	137,090	96	..	102,782	..	34,308	8,458
	2018	138,731	95	..	104,172	..	34,559	8,353
Kyrgyzstan	2015	107	47	224	0	8	323	54
	2016	145	34	250	7	1	387	64
	2017	173	29	297	20	5	445	72
	2018	200	25	*410	70	-9	*549	*87
Malaysia	2015	31,347	14	8,097	15,533	-55	23,966	792
	2016	32,113	14	10,488	16,045	-68	26,624	868
	2017	31,071	14	9,793	14,453	287	26,124	840
	2018	30,917	14	8,927	14,506	435	24,903	790
Mongolia	2015	1,038	34	..	963	75	0	0
	2016	976	36	..	949	28	0	0
	2017	902	39	..	889	13	0	0
	2018	756	46	..	733	24	0	0
Myanmar	2015	789	4	..	144	14	631	12
	2016	653	5	..	149	32	472	9
	2017	589	5	..	241	-1	349	7
	2018	487	6	..	242	..	245	5
Oman	2015	48,067	15	..	41,356	..	6,711	1,573
	2016	49,409	14	..	43,266	..	6,143	1,371
	2017	47,685	15	..	39,596	..	8,089	1,734
	2018	48,784	15	..	39,522	..	9,262	1,918
Other Asia	2015	8	4	43,931	..	224	43,715	1,856
	2016	8	4	44,837	..	-141	44,986	1,905
	2017	5	6	44,517	..	247	44,275	1,870
	2018	4	8	45,959	..	-481	46,444	1,957
Pakistan	2015	4,203	11	5,928	308	0	9,823	49
	2016	4,285	10	8,368	208	0	12,445	61
	2017	4,448	10	10,404	412	..	14,440	69
	2018	4,368	10	9,029	572	..	12,825	60
Philippines	2015	329	22	10,644	334	36	10,603	104
	2016	275	22	10,743	247	221	10,551	102
	2017	217	25	10,590	193	-239	10,853	103
	2018	173	27	11,702	146	10	11,719	110
Qatar	2015	31,915	38	..	28,216	..	3,699	1,442
	2016	31,798	36	..	28,051	..	3,747	1,412
	2017	29,199	38	..	25,647	..	3,552	1,304
	2018	29,233	39	..	25,676	..	3,557	1,279
Saudi Arabia	2015	508,238	66	..	357,172	2,288	148,778	4,691
	2016	523,010	64	..	373,168	-7,220	157,062	4,841
	2017	508,235	66	..	347,464	-3,772	164,543	4,971
	2018	514,362	65	..	367,570	*-5,412	152,204	4,516

Table 13

Production, trade and supply of conventional crude oil

Thousand metric tons; kilograms per capita; reserves/production ratio (R/P) in years

Country or area	Year	Production		Imports	Exports	Changes in stocks	Supply	
		Total	Reserves/ Production				Total	Per capita
Singapore	2015	..	..	49,438	1,064	..	48,374	8,650
	2016	..	..	52,776	1,026	..	51,750	9,153
	2017	..	..	57,954	1,250	..	56,704	9,934
	2018	..	..	55,189	111	..	55,078	9,566
Sri Lanka	2015	..	..	1,677	..	-15	1,692	81
	2016	..	..	1,685	..	-61	1,746	83
	2017	..	..	1,499	..	-147	1,646	78
	2018	..	..	1,763	..	0	1,763	83
Syrian Arab Republic	2015	1,074	296	5,490	..	..	6,564	365
	2016	961	328	6,118	..	..	7,079	405
	2017	961	328	6,900	..	..	7,861	460
	2018	904	347	6,456	..	..	7,360	434
Tajikistan	2015	25	80	..	..	..	25	3
	2016	25	80	..	..	..	25	3
	2017	24	85	..	..	..	24	3
	2018	23	86	45	..	..	69	8
Thailand	2015	13,087	3	44,509	40	-4,842	62,398	908
	2016	13,531	2	43,862	1,546	-6,288	62,135	901
	2017	12,645	3	46,278	1,670	-6,278	63,531	918
	2018	12,124	3	48,925	1,531	-4,114	63,632	917
Timor-Leste	2015	3,095	19	..	*3,095	..	0	0
	2016	2,455	24	..	*2,455	..	0	0
	2017	2,010	29	..	*2,010	..	0	0
	2018	1,641	36	..	*1,641	..	0	0
Turkey	2015	2,516	18	25,067	..	890	26,693	340
	2016	2,573	18	24,958	..	165	27,366	343
	2017	2,553	18	25,767	..	233	28,087	346
	2018	2,851	16	20,972	..	-81	23,904	290
Turkmenistan	2015	12,050	6	..	3,450	..	8,600	1,545
	2016	11,080	7	..	2,480	..	8,600	1,519
	2017	10,300	7	..	1,700	..	8,600	1,494
	2018	9,650	8	..	1,050	..	8,600	1,470
United Arab Emirates	2015	148,838	70	..	124,538	..	24,300	2,623
	2016	154,189	68	..	120,236	..	33,953	3,627
	2017	149,937	70	..	118,463	417	31,057	3,274
	2018	149,985	70	..	114,539	1,464	33,982	3,528
Uzbekistan	2015	1,000	30	212	..	..	1,212	39
	2016	868	31	212	..	..	1,080	34
	2017	814	29	263	..	..	1,077	34
	2018	746	28	456	..	..	1,201	37
Viet Nam	2015	18,746	30	182	9,486	*1,100	8,342	90
	2016	15,200	37	435	6,848	*1,087	7,700	82
	2017	13,557	41	1,181	6,806	1,822	6,110	65
	2018	11,989	46	704	352	2,032	10,309	108
Yemen	2015	1,413	269	..	430	..	983	37
	2016	867	425	..	0	..	867	32
	2017	1,021	366	..	..	..	1,021	37
	2018	1,492	272	..	..	..	1,492	52
Europe	2015	662,048	23	586,392	346,804	6,358	895,278	1,201
	2016	673,315	22	571,675	360,756	-2,080	886,314	1,187
	2017	663,035	22	592,170	361,706	-4,096	897,595	1,201
	2018	670,912	22	585,335	368,815	1,381	886,051	1,184

Table 13

Production, trade and supply of conventional crude oil

Thousand metric tons; kilograms per capita; reserves/production ratio (R/P) in years

Country or area	Year	Production		Imports	Exports	Changes in stocks	Supply	
		Total	Reserves/ Production				Total	Per capita
Albania	2015	1,279	20	..	987	16	276	95
	2016	1,056	25	..	888	-16	184	64
	2017	959	27	..	488	-42	513	178
	2018	911	29	..	583	30	298	103
Austria	2015	854	8	8,079	..	80	8,853	1,020
	2016	786	9	7,332	..	-66	8,184	936
	2017	698	10	7,219	..	-148	8,065	914
	2018	670	10	8,333	..	34	8,969	1,009
Belarus	2015	1,645	16	22,919	1,615	-80	23,029	2,440
	2016	1,645	16	18,142	1,617	-448	18,618	1,971
	2017	1,650	16	18,130	1,621	-31	18,190	1,925
	2018	1,670	15	18,244	1,640	7	18,268	1,933
Belgium	2015	..	..	32,080	..	19	32,061	2,840
	2016	..	..	31,870	..	-99	31,969	2,816
	2017	..	..	34,117	..	30	34,087	2,985
	2018	..	..	33,017	..	-7	33,024	2,876
Bosnia and Herzegovina	2015	..	..	916	..	2	914	267
	2016	..	..	911	..	75	836	247
	2017	..	..	845	..	77	768	229
	2018	..	..	683	..	-14	697	210
Bulgaria	2015	25	80	6,068	..	56	6,037	839
	2016	24	83	6,195	..	-40	6,259	875
	2017	24	83	6,859	..	99	6,784	955
	2018	22	91	5,858	..	-6	5,886	835
Croatia	2015	619	10	2,328	..	84	2,863	676
	2016	684	9	2,513	..	-27	3,224	766
	2017	689	9	2,818	..	24	3,483	833
	2018	688	9	2,966	..	64	3,590	864
Czechia	2015	128	16	7,132	28	16	7,216	681
	2016	117	17	5,325	28	-8	5,422	511
	2017	108	19	7,814	24	34	7,864	739
	2018	110	18	7,439	22	4	7,523	705
Denmark	2015	7,690	10	4,164	4,523	74	7,257	1,276
	2016	6,924	11	3,835	3,877	-27	6,909	1,210
	2017	6,737	11	4,823	4,098	-32	7,494	1,307
	2018	5,666	13	4,714	2,809	25	7,546	1,312
Finland	2015	..	..	10,073	..	435	9,638	1,758
	2016	..	..	11,249	..	59	11,190	2,035
	2017	..	..	11,014	..	-136	11,150	2,023
	2018	..	..	11,511	..	12	11,499	2,082
France	2015	835	13	57,452	40	107	58,140	873
	2016	815	13	54,894	0	-863	56,572	846
	2017	758	15	57,053	67	400	57,344	855
	2018	774	14	52,727	0	-448	53,949	802
Germany	2015	2,414	13	91,275	333	-280	93,636	1,145
	2016	2,357	13	91,244	101	-761	94,261	1,147
	2017	2,217	14	90,738	..	-249	93,204	1,128
	2018	2,070	15	85,211	..	-503	87,784	1,056
Greece	2015	62	16	22,085	80	383	21,684	2,034
	2016	176	6	23,462	156	295	23,187	2,184
	2017	142	7	23,667	163	-385	24,031	2,274
	2018	206	5	24,330	202	7	24,327	2,312

Table 13

Production, trade and supply of conventional crude oil

Thousand metric tons; kilograms per capita; reserves/production ratio (R/P) in years

Country or area	Year	Production		Imports	Exports	Changes in stocks	Supply	
		Total	Reserves/ Production				Total	Per capita
Hungary	2015	623	5	6,211	96	261	6,477	662
	2016	712	4	6,012	75	12	6,637	681
	2017	714	4	5,984	161	12	6,525	671
	2018	808	4	6,677	394	51	7,040	725
Ireland	2015	..	..	3,642	0	276	3,366	723
	2016	..	..	3,197	..	3	3,194	680
	2017	..	..	2,918	..	-265	3,183	670
	2018	..	..	2,986	..	-38	3,024	628
Italy	2015	5,470	15	62,457	709	223	66,995	1,105
	2016	3,746	22	60,878	624	-586	64,586	1,064
	2017	4,138	20	66,348	697	-319	70,108	1,155
	2018	4,684	17	62,053	502	-757	66,992	1,104
Lithuania	2015	75	13	8,491	50	29	8,487	2,895
	2016	64	16	9,321	52	9	9,324	3,227
	2017	56	18	9,817	42	10	9,821	3,452
	2018	46	22	9,653	45	-35	9,689	3,459
Netherlands	2015	1,396	17	52,236	292	554	52,786	3,116
	2016	957	24	54,318	326	557	54,392	3,203
	2017	952	25	52,851	440	-162	53,525	3,145
	2018	901	27	54,306	434	-169	54,942	3,221
Norway	2015	77,899	11	1,179	64,943	120	14,015	2,695
	2016	79,836	11	493	69,254	731	10,344	1,970
	2017	78,413	11	1,797	67,076	-906	14,040	2,651
	2018	73,721	12	3,283	61,535	678	14,791	2,771
Poland	2015	928	16	26,492	254	1,057	26,109	686
	2016	1,001	15	24,573	224	-426	25,776	679
	2017	996	15	24,648	220	280	25,144	663
	2018	1,010	15	26,847	296	554	27,007	712
Portugal	2015	..	..	13,969	..	122	13,847	1,336
	2016	..	..	13,731	..	-177	13,908	1,347
	2017	..	..	14,191	..	54	14,137	1,374
	2018	..	..	12,651	..	111	12,540	1,223
Republic of Moldova	2015	7	..	0	..	0	7	2
	2016	6	..	0	..	-1	7	2
	2017	5	..	0	..	1	4	1
	2018	5	..	0	..	0	5	1
Romania	2015	3,902	20	6,596	49	67	10,382	521
	2016	3,686	21	7,468	14	-165	11,305	571
	2017	3,538	22	7,754	37	-188	11,443	582
	2018	3,486	22	8,265	..	87	11,664	598
Russian Federation	2015	510,230	26	2,196	242,733	2,262	267,431	1,845
	2016	521,715	26	0	252,844	485	268,386	1,847
	2017	514,536	26	0	252,169	-1,605	263,972	1,814
	2018	523,321	25	0	259,830	2,327	261,165	1,792
Serbia	2015	1,022	7	1,799	..	-117	2,938	414
	2016	930	7	2,190	..	14	3,106	439
	2017	889	8	2,447	..	3	3,333	473
	2018	877	8	2,686	..	5	3,558	508
Slovakia	2015	10	83	5,902	10	-28	5,930	1,091
	2016	8	100	5,792	9	53	5,738	1,054
	2017	6	125	5,587	56	-20	5,557	1,020
	2018	5	143	5,436	5	8	5,428	995

Table 13

Production, trade and supply of conventional crude oil

Thousand metric tons; kilograms per capita; reserves/production ratio (R/P) in years

Country or area	Year	Production		Imports	Exports	Changes in stocks	Supply	
		Total	Reserves/ Production				Total	Per capita
Spain	2015	232	82	64,726	..	-73	65,031	1,393
	2016	141	135	64,171	..	-676	64,988	1,394
	2017	120	158	65,958	..	40	66,038	1,416
	2018	87	218	67,586	..	-220	67,893	1,454
Sweden	2015	..	..	20,110	..	707	19,403	1,987
	2016	..	..	19,689	..	-8	19,697	2,003
	2017	..	..	19,061	..	-384	19,445	1,963
	2018	..	..	19,969	..	-140	20,109	2,017
Switzerland	2015	..	..	2,785	..	-18	2,803	336
	2016	..	..	2,930	16	-16	2,930	348
	2017	..	..	2,847	..	-3	2,850	336
	2018	..	..	3,018	..	4	3,014	352
Ukraine	2015	1,877	21	227	8	-23	2,119	47
	2016	1,623	24	502	..	5	2,120	47
	2017	1,505	25	905	83	41	2,286	51
	2018	1,624	24	723	..	-6	2,353	53
United Kingdom	2015	42,826	8	42,803	30,054	27	55,548	843
	2016	44,306	8	39,438	30,651	32	53,061	800
	2017	43,185	8	43,960	34,264	-326	53,207	797
	2018	47,550	7	44,163	40,519	-284	51,478	767
Oceania	2015	18,446	24	25,188	14,334	-338	29,638	744
	2016	17,765	25	21,977	13,338	-128	26,532	656
	2017	15,430	28	22,586	12,075	-16	25,957	633
	2018	14,297	31	24,041	11,905	-82	26,515	638
Australia	2015	15,381	26	19,447	11,404	-208	23,632	987
	2016	15,024	27	15,323	10,669	-141	19,819	817
	2017	12,993	30	15,959	9,698	-67	19,321	786
	2018	12,179	34	17,674	9,792	-119	20,180	811
New Zealand	2015	1,856	8	5,122	1,721	-141	5,398	1,170
	2016	1,575	10	5,286	1,503	45	5,313	1,140
	2017	1,399	11	5,215	1,339	-30	5,305	1,128
	2018	1,075	14	4,948	1,070	-44	4,997	1,054
Papua New Guinea	2015	1,209	20	619	1,209	11	608	75
	2016	1,166	21	1,368	1,166	-32	1,400	169
	2017	1,038	23	1,412	1,038	81	1,331	158
	2018	*1,043	23	*1,419	*1,043	*81	*1,338	*155

Production of additives and other hydrocarbons

Thousand metric tons

Table Notes

Additives production refers to any quantities of additives (as per the definition in page x) which come from non-energy sources, such as Tetraethyllead (TEL) or detergents.

Additives from other sources refers to quantities of additives (as per the definition in page x) already accounted for in energy statistics, such as oxygenates from a biomass or hydrocarbon origin.

Other hydrocarbons production refers to quantities of other hydrocarbons which are oils obtained by non-conventional production techniques and are primary for the purposes of energy statistics.

Other hydrocarbons from other sources refers to the oils extracted from extra heavy oils, oil sands, coal and oil shale whose production has been already accounted for in energy statistics, together with the output of GTL plants.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description/classification, and xvi to xvii for the descriptions of relevant flows.

Figure 41: Major additives producing countries, 2018

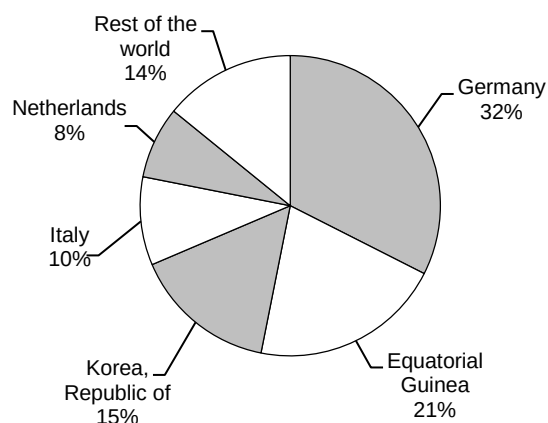


Figure 42: Major other hydrocarbons producing countries, 2018

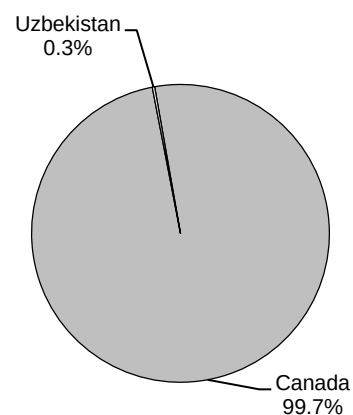


Table 14

Production of additives and other hydrocarbons

Thousand metric tons

Country or area	Year	Additives		Other hydrocarbons	
		Production	From other sources	Production	From other sources
World	2015	4,055	3,143	61,808	30,099
	2016	4,415	3,079	46,994	29,899
	2017	4,545	2,803	57,114	29,799
	2018	4,836	2,797	55,944	28,853
Africa	2015	815	..	..	5,522
	2016	1,069	..	..	4,455
	2017	1,083	..	..	4,680
	2018	999	..	..	5,035
Equatorial Guinea	2015	815	..	..	..
	2016	1,069	..	..	..
	2017	1,083	..	..	..
	2018	999	..	..	..
Nigeria	2015	..	..	..	200
	2016	..	..	..	201
	2017	..	..	..	200
	2018	..	..	..	200
South Africa	2015	..	..	..	5,322
	2016	..	..	..	4,254
	2017	..	..	..	4,480
	2018	..	..	..	4,835
America, North	2015	321	2,889	53,192	7,375
	2016	274	2,775	46,863	7,230
	2017	197	2,550	56,975	7,225
	2018	240	2,587	55,799	7,912
Canada	2015	..	373	53,192	3,364
	2016	..	..	46,863	3,129
	2017	..	..	56,975	3,037
	2018	..	..	55,799	3,728
Mexico	2015	321	..	..	62
	2016	274	..	..	37
	2017	197	..	..	33
	2018	240	..	..	36
United States	2015	..	2,516	..	3,949
	2016	..	2,775	..	4,064
	2017	..	2,550	..	4,155
	2018	..	2,587	..	4,148
America, South	2015	..	..	8,442	..
	2016	..	..	..	451
	2017	..	..	..	518
	2018	..	..	..	329
Brazil	2015	..	..	8,442	..
	2016	..	..	..	451
	2017	..	..	..	472
	2018	..	..	..	283
Chile	2015	..	..	..	..
	2016	..	..	..	..
	2017	..	..	..	46
	2018	..	..	..	46
Asia	2015	642	..	137	9,218
	2016	674	..	131	10,288
	2017	688	..	139	12,478
	2018	748	..	145	10,134

Table 14

Production of additives and other hydrocarbons

Thousand metric tons

Country or area	Year	Additives		Other hydrocarbons	
		Production	From other sources	Production	From other sources
China	2015	..	..	..	2,494
	2016	..	..	..	3,978
	2017	..	..	..	7,044
	2018	..	..	..	5,815
Israel	2015	..	..	..	112
	2016	..	..	..	99
	2017	..	..	..	114
	2018	..	..	..	98
Korea, Republic of	2015	642	..	..	..
	2016	674	..	..	..
	2017	688	..	..	..
	2018	748	..	..	..
Malaysia	2015	..	..	..	407
	2016	..	..	..	569
	2017	..	..	..	509
	2018	..	..	..	*531
Qatar	2015	..	..	..	5,788
	2016	..	..	..	5,180
	2017	..	..	..	4,319
	2018	..	..	..	3,173
Turkey	2015	..	..	..	417
	2016	..	..	..	462
	2017	..	..	..	492
	2018	..	..	..	517
Uzbekistan	2015	..	..	137	..
	2016	..	..	131	..
	2017	..	..	139	..
	2018	..	..	145	..
Europe	2015	2,277	254	37	7,903
	2016	2,398	304	0	7,343
	2017	2,577	253	0	4,898
	2018	2,849	210	..	5,443
Belarus	2015	..	22	..	..
	2016	..	20	..	..
	2017	..	20	..	..
	2018	..	..	..	..
Belgium	2015	..	..	..	..
	2016	..	..	..	..
	2017	..	..	..	..
	2018	..	..	..	34
Bulgaria	2015	..	..	..	99
	2016	..	..	..	169
	2017	..	..	..	188
	2018	..	9	..	152
Croatia	2015	..	..	..	60
	2016	..	..	..	71
	2017	..	..	..	67
	2018	..	..	..	75
Czechia	2015	81	7	..	..
	2016	70	5	..	..
	2017	105	18	..	..
	2018	89	23	..	..

Table 14

Production of additives and other hydrocarbons

Thousand metric tons

Country or area	Year	Additives		Other hydrocarbons	
		Production	From other sources	Production	From other sources
Estonia	2015	..	..	..	854
	2016	..	..	..	724
	2017	..	..	..	1,016
	2018	..	..	..	1,111
Finland	2015	..	..	..	210
	2016	..	..	..	229
	2017	..	..	..	208
	2018	..	..	..	183
France	2015	228	..	..	..
	2016	177	..	..	..
	2017	206	..	..	..
	2018	139	..	..	..
Germany	2015	1,215	..	..	..
	2016	1,344	..	..	..
	2017	1,444	..	..	..
	2018	1,570	..	..	..
Hungary	2015	..	0	6	37
	2016	14	0	0	33
	2017	50	..	..	33
	2018	53	..	..	40
Ireland	2015	..	..	..	39
	2016	..	..	..	48
	2017	..	..	..	40
	2018	..	..	..	36
Italy	2015	360	..	..	..
	2016	320	..	..	..
	2017	360	..	..	..
	2018	460	..	..	..
Netherlands	2015	208	..	..	..
	2016	321	..	..	..
	2017	278	..	..	..
	2018	375	..	..	..
Norway	2015	74	..	..	..
	2016	85	..	..	..
	2017	68	..	..	..
	2018	70	..	..	..
Poland	2015	1	..	..	628
	2016	11	..	..	589
	2017	1	..	..	584
	2018	7	..	..	636
Portugal	2015	..	..	..	70
	2016	..	7	..	64
	2017	..	..	..	71
	2018	..	..	..	65
Romania	2015	25	..	..	77
	2016	22	..	..	89
	2017	22	..	..	74
	2018	31	..	..	66
Russian Federation	2015	..	..	..	*5,654
	2016	..	..	..	*5,160
	2017	..	..	..	2,448
	2018	..	..	..	2,886

Table 14

Production of additives and other hydrocarbons

Thousand metric tons

Country or area	Year	Additives		Other hydrocarbons	
		Production	From other sources	Production	From other sources
Serbia	2015	10	..	..	26
	2016	12	..	..	26
	2017	13	..	..	23
	2018	16	..	..	28
Slovakia	2015	..	225	..	149
	2016	..	215	..	141
	2017	..	215	..	146
	2018	..	178	..	131
Ukraine	2015	75	..	..	..
	2016	22	57	..	..
	2017	30	..	..	..
	2018	39	..	..	..
United Kingdom	2015	..	..	31	..
	2016	..	..	0	..
	2017	..	..	0	..
	2018	..	..	..	..
Oceania	2015	..	..	..	81
	2016	..	..	..	132
	2017	..	..	..	0
	2018	..	..	..	0
Australia	2015	..	..	..	81
	2016	..	..	..	132
	2017	..	..	..	0
	2018	..	..	..	0

Table 15

**International trade of conventional crude oil
(Principal importers/exporters)**

Thousand metric tons

2017

Importers	Exporters							
	World	Angola	Azerbaijan	Canada	Colombia	Iran (Islamic Rep. of)	Iraq	Kazakhstan
Australia	15,959	..	..	..	..	..	..	..
Bahrain	10,953	..	..	..	..	..	..	..
Belarus	18,130	..	..	..	..	..	..	64
Belgium	34,117	..	..	29	..	432	806	..
Brazil	7,415	..	..	..	..	..	357	..
Canada	40,562	333	2,735	..	439	..	140	293
Chile	8,468	..	..	..	..	..	..	..
China	419,462	50,416	1,282	438	9,303	29,152	36,815	2,502
Finland	11,014	..	..	..	..	..	..	0
France	57,053	899	1,550	..	0	6,992	484	9,063
Germany	90,738	205	2,451	0	138	794	4,675	8,114
Greece	23,667	..	146	..	..	4,342	10,148	2,399
India	225,282	7,780	1,130	122	264	17,285	42,171	2,749
Indonesia	15,889	916	1,061	..	..	141	..	..
Italy	66,348	931	12,299	780	144	9,324	8,655	3,476
Japan	155,740	522	..	..	352	7,124	2,945	1,791
Korea, Republic of	150,613	..	..	..	..	18,838	17,126	3,594
Netherlands	52,851	..	..	30	0	1,301	6,792	..
Philippines	10,590	..	..	..	..	..	..	..
Poland	24,648	..	..	90	..	257	1,102	882
Portugal	14,191	689	1,855	..	..	..	861	1,416
Singapore	57,954	..	..	..	125	..	977	204
South Africa	17,103	3,420	..	..	..	..	..	..
Spain	65,958	2,578	940	979	934	4,383	4,054	4,417
Sweden	19,061	..	..	..	..	..	612	..
Thailand	46,278	..	..	..	..	..	..	..
Turkey	25,767	..	..	74	255	6,492	7,056	471
United Kingdom	43,960	127	..	283	..	..	..	..
United States	393,259	6,358	346	141,316	16,611	..	29,632	..

International trade of conventional crude oil
(Principal importers/exporters)

Thousand metric tons

2017

Exporters									
Kuwait	Mexico	Nigeria	Norway	Qatar	Russian Federation	Saudi Arabia	United Arab Emirates	United Kingdom	Venezuela (Bolivar. Rep.)
..	..	..	..	..	433	..	2,601	..	..
..	..	..	..	..	..	10,577	288	..	..
..	..	..	..	..	18,065	..	..	..	..
689	354	2,048	2,622	..	16,339	6,364	..	3,239	93
..	..	1,067	..	..	..	3,751	..	0	..
..	267	1,863	1,874	..	292	5,089	..	976	..
..	..	..	..	..	..	..	..	132	..
18,243	1,232	1,205	889	1,014	59,538	52,180	10,158	5,670	21,761
..	..	..	529	..	10,138	98	..	..	..
112	66	4,796	5,383	..	8,940	6,180	276	1,491	..
176	345	4,916	10,303	..	33,512	1,021	..	8,555	654
..	..	..	..	..	1,978	2,167	..	0	..
11,175	8,162	16,979	..	3,299	3,058	35,849	16,561	..	19,426
..	..	3,280	..	..	..	4,131	246	..	..
3,680	199	1,663	1,293	..	6,539	6,055	..	0	193
11,558	1,995	..	..	10,916	8,310	62,307	39,201	83	140
21,478	4,209	0	100	1,154	5,233	42,562	12,342	4,627	..
3,593	641	3,125	5,967	..	21,174	1,279	..	5,717	0
3,389	..	..	..	541	113	3,470	1,568	..	..
..	..	..	386	..	19,682	1,789	..	80	..
168	208	133	79	..	3,397	1,549	..	..	..
6,323	..	66	..	4,241	1,432	10,365	15,239	319	..
107	..	4,106	..	..	..	8,183	107	..	..
..	9,689	9,477	2,637	..	2,234	6,380	..	1,548	1,050
..	..	2,880	5,016	..	6,976	..	..	97	1,147
..	..	..	81	2,395	..	..	12,223	..	..
1,725	..	134	..	..	2,075	1,821	..	..	..
..	..	4,464	21,035	..	2,974	1,589	..	..	175
7,116	29,971	15,260	1,828	..	2,402	46,833	..	1,168	30,504

Table 15

**International trade of conventional crude oil
(Principal importers/exporters)**

Thousand metric tons

2018

Importers	Exporters							
	World	Angola	Azerbaijan	Canada	Colombia	Iran (Islamic Rep. of)	Iraq	Kazakhstan
Australia	17,674	39	..	..	..	..	..	..
Bahrain	10,951	..	..	..	..	..	..	..
Belarus	18,244	..	..	..	..	..	..	..
Belgium	33,017	107	..	167	..	130	1,296	..
Brazil	9,530	..	..	..	..	..	771	..
Canada	39,311	..	1,706	..	358	..	..	..
Chile	8,553	..	..	90	119	..	..	..
China	461,886	47,388	547	477	10,768	28,063	45,044	2,287
Finland	11,511	..	..	..	..	..	..	..
France	52,727	1,124	1,089	95	..	3,201	1,189	8,142
Germany	85,211	85	3,063	238	..	273	3,031	6,821
Greece	24,330	..	..	..	..	2,497	10,904	3,071
India	226,500	6,473	575	133	895	24,402	47,838	804
Indonesia	15,404	1,247	884	..	..	..	..	..
Italy	62,053	956	11,793	775	..	6,179	9,078	2,887
Japan	149,208	331	..	..	227	5,299	2,217	1,292
Korea, Republic of	150,281	..	..	162	135	7,835	18,742	7,522
Netherlands	54,306	..	..	51	..	1,433	6,423	..
Philippines	11,702	..	..	..	..	..	..	..
Poland	26,847	..	..	..	..	127	427	695
Portugal	12,651	2,069	1,667	183	..	..	573	1,124
Singapore	55,189	..	..	..	..	..	1,305	364
South Africa	18,706	2,352	..	..	..	..	..	..
Spain	67,586	2,693	1,272	1,137	755	4,894	4,678	4,476
Sweden	19,969	..	..	..	..	..	272	..
Thailand	48,925	4	..	..	..	..	..	..
Turkey	20,972	..	30	..	76	7,108	6,612	1,214
United Kingdom	44,163	80	273	931	..	..	..	..
United States	383,263	4,459	660	152,866	14,547	..	25,561	1,095

International trade of conventional crude oil
(Principal importers/exporters)

Thousand metric tons

2018

Exporters									
Kuwait	Mexico	Nigeria	Norway	Qatar	Russian Federation	Saudi Arabia	United Arab Emirates	United Kingdom	Venezuela (Bolivar. Rep.)
..	..	1,378	..	..	213	..	3,049	..	..
..	..	..	..	..	..	10,861	..	..	..
..	..	..	..	..	18,244	..	..	..	..
4	295	3,931	2,283	..	12,856	5,696	..	3,689	434
..	..	2,323	..	..	..	3,206	..	..	..
..	174	679	1,057	..	220	5,804	..	519	..
..	..	..	..	..	..	..	..	276	..
23,212	572	465	1,204	1,348	71,494	56,734	12,199	6,795	16,635
..	..	..	1,006	..	10,273	..	..	..	..
256	..	5,806	3,314	..	7,542	7,950	..	774	..
353	191	5,468	10,044	..	30,969	1,425	..	6,685	666
..	..	..	..	..	2,794	1,797	..	261	..
11,381	9,315	16,827	..	2,301	2,221	39,489	16,052	100	17,453
..	..	4,509	89	56	..	4,825	..	..	..
1,041	..	2,274	1,219	..	5,679	7,236	..	168	138
11,502	1,256	..	..	10,479	6,650	57,820	38,345	..	..
21,724	4,339	1,217	692	952	5,337	42,991	9,773	4,254	..
3,545	819	3,202	5,988	..	21,787	1,327	..	6,136	..
3,950	..	51	..	326	169	4,272	2,842	..	..
..	..	399	827	..	20,742	2,115	120	661	..
168	142	..	170	..	2,472	1,229	..	..	..
6,956	..	127	..	10,078	1,743	10,684	10,650	..	..
..	..	6,745	..	133	..	8,780	94	..	..
..	9,381	10,264	1,559	..	1,018	7,492	..	650	629
..	..	3,812	5,474	..	6,548	99	..	357	875
..	..	..	..	..	..	12,024	17,433	..	..
1,405	..	490	..	..	1,898	1,757	..	..	..
..	..	5,707	17,136	..	2,256	1,136	..	..	102
3,843	32,807	8,656	2,636	..	3,609	42,919	..	2,807	24,937

Table 16

Refinery distillation capacity, throughput and output

Thousand metric tons

Table Notes

Output is equal to the sum of “production from refineries” for aviation gasoline, bitumen, gas/diesel oil, ethane, feedstocks, gasoline-type jet fuel, kerosene-type jet fuel, other kerosene, liquefied petroleum gas, lubricants, motor gasoline, naphtha, petroleum coke, other oil products, paraffin waxes, fuel oil, refinery gas and white spirits.

Throughput is equal to the sum of “transformation in refineries” for conventional crude oil, feedstocks, other hydrocarbons, additives and oxygenates, and natural gas liquids.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description/ classification, and xvi to xvii for the descriptions of relevant flows.

Figure 43: Refinery distillation capacity, throughput and output by region, 2018

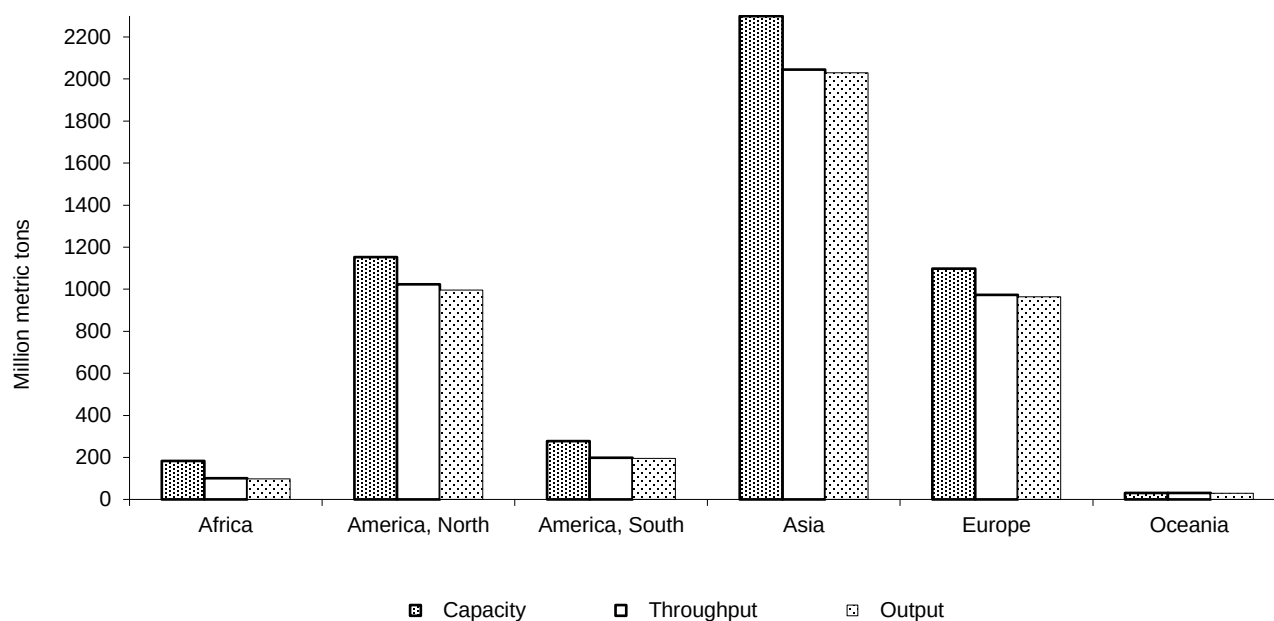


Figure 44: Total refinery distillation capacity by region, 1990-2018

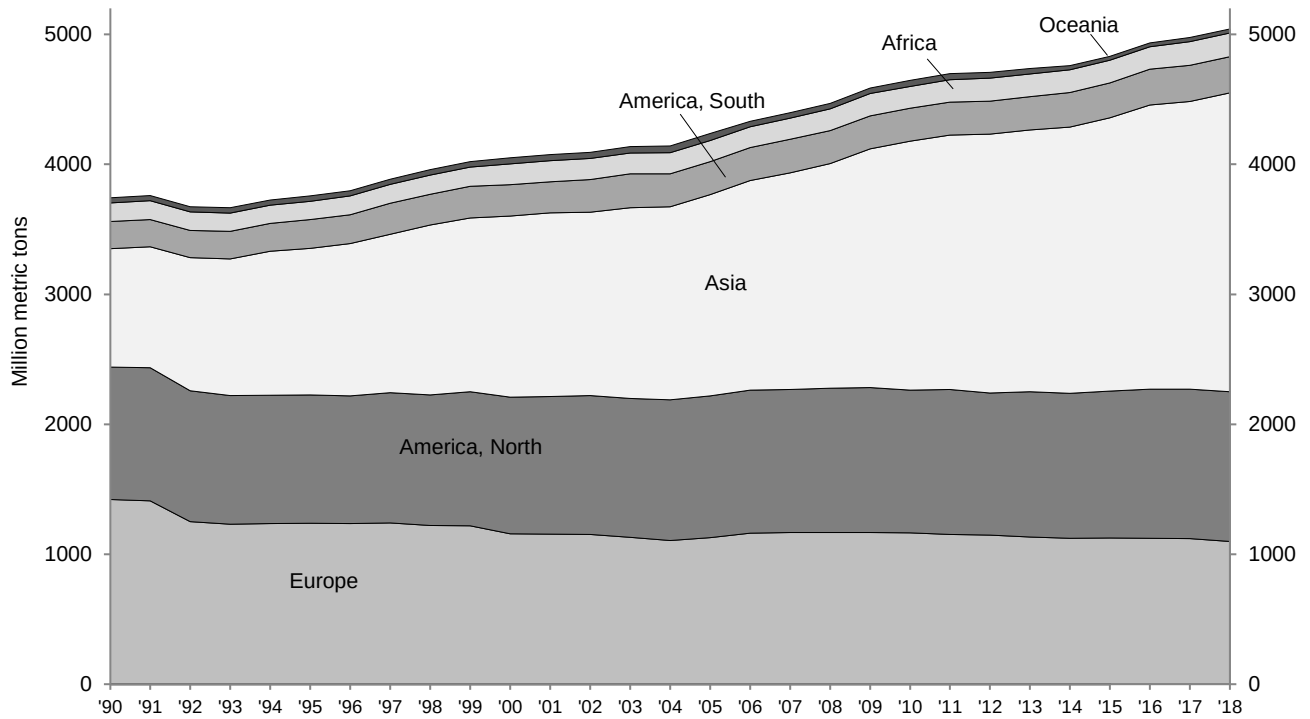


Table 16

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
World	2015	4,830,837	4,239,220	4,134,955
	2016	4,932,998	4,258,094	4,184,043
	2017	4,975,375	4,345,050	4,264,089
	2018	5,041,451	4,371,129	4,311,094
Africa	2015	175,276	105,054	101,927
	2016	171,444	101,873	100,221
	2017	182,976	100,437	95,477
	2018	183,375	100,948	98,586
Algeria	2015	32,459	29,903	29,713
	2016	32,459	29,355	29,160
	2017	32,459	28,513	28,317
	2018	32,858	30,784	29,914
Angola	2015	4,005	2,600	2,598
	2016	4,005	2,656	2,641
	2017	4,005	2,577	2,547
	2018	4,005	1,852	1,853
Cameroon	2015	*2,100	1,825	1,613
	2016	*2,100	1,805	1,596
	2017	2,100	1,485	1,313
	2018	2,100	1,346	1,180
Chad	2015	998	800	*774
	2016	*998	700	*677
	2017	*998	700	*677
	2018	*998	700	*689
Congo	2015	1,047	737	688
	2016	1,047	723	649
	2017	*1,047	837	716
	2018	*1,047	849	716
Côte d'Ivoire	2015	3,192	3,265	3,172
	2016	3,192	3,474	3,186
	2017	3,192	3,296	*3,064
	2018	*3,192	3,433	3,366
Egypt	2015	38,040	26,087	25,595
	2016	38,040	24,955	25,052
	2017	38,040	27,107	23,888
	2018	38,040	26,328	26,083
Gabon	2015	1,197	802	801
	2016	1,197	850	849
	2017	*1,197	811	793
	2018	*1,197	816	799
Ghana	2015	2,244	104	89
	2016	2,244	769	739
	2017	2,244	24	16
	2018	*2,244	405	309
Libya	2015	18,953	4,368	4,306
	2016	18,953	4,063	4,004
	2017	18,953	4,835	4,772
	2018	18,953	5,647	5,595
Mauritania	2015	998	..	..
	2016	*998	..	..
	2017	*998	..	..
	2018	*998	..	..

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Morocco	2015	10,000	3,195	3,127
	2016	7,726	0	0
	2017	7,725	..	..
	2018	7,725	..	..
Niger	2015	*1,200	770	565
	2016	1,200	734	572
	2017	*1,200	*881	*795
	2018	*1,200	*829	742
Nigeria	2015	22,195	1,708	1,618
	2016	21,135	3,503	3,351
	2017	22,195	4,722	4,380
	2018	*22,195	2,744	2,692
Senegal	2015	1,248	1,160	1,012
	2016	1,248	1,231	1,124
	2017	1,248	1,319	1,202
	2018	1,248	1,051	981
Sierra Leone	2015	499	..	..
	2016	499	..	..
	2017	499	..	..
	2018	*499	..	..
South Africa	2015	25,087	21,735	20,493
	2016	24,589	20,933	20,809
	2017	35,062	17,998	17,918
	2018	*35,062	18,961	18,700
Sudan	2015	6,074	*4,056	3,853
	2016	6,074	*4,384	4,165
	2017	6,074	*3,799	3,609
	2018	6,074	*3,495	3,320
Tunisia	2015	1,800	1,315	1,305
	2016	1,800	1,194	1,185
	2017	1,800	912	906
	2018	1,800	1,062	1,054
United Rep. of Tanzania	2015	743	..	..
	2016	*743	..	..
	2017	*743	..	..
	2018	*743	..	..
Zambia	2015	1,197	623	605
	2016	1,197	544	463
	2017	1,197	620	564
	2018	1,197	647	593
America, North	2015	1,129,264	1,013,668	984,932
	2016	1,147,766	1,012,953	987,258
	2017	1,149,870	1,019,557	991,031
	2018	1,152,192	1,023,835	995,738
Aruba	2015	*11,463	..	..
	2016	*11,463	..	..
	2017	*11,463	..	..
	2018	*11,463	..	..
Canada	2015	100,125	91,734	87,753
	2016	102,618	92,850	88,966
	2017	95,342	97,882	92,861
	2018	95,342	96,311	90,454

Table 16

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Cuba	2015	6,135	*4,730	4,526
	2016	6,135	*2,305	2,205
	2017	6,135	*2,763	2,632
	2018	6,135	*2,888	2,751
Curaçao	2015	15,960	9,481	9,060
	2016	16,708	8,539	8,216
	2017	16,708	4,598	4,321
	2018	*16,708	3,430	3,089
Dominican Republic	2015	1,721	810	764
	2016	1,721	1,171	1,097
	2017	1,721	955	899
	2018	1,721	1,279	1,208
Guatemala	2015	247	64	66
	2016	247	56	56
	2017	247	88	85
	2018	*249	137	147
Jamaica	2015	1,795	1,310	1,221
	2016	1,795	1,155	1,094
	2017	1,796	1,115	1,048
	2018	1,796	1,035	1,047
Mexico	2015	81,796	63,749	56,815
	2016	79,900	55,732	50,634
	2017	81,147	45,496	44,357
	2018	81,796	36,247	35,504
Nicaragua	2015	995	792	729
	2016	995	682	656
	2017	998	701	673
	2018	998	*678	653
Trinidad and Tobago	2015	8,379	6,464	6,182
	2016	8,379	7,663	7,303
	2017	8,379	6,740	6,388
	2018	*8,379	5,373	5,032
United States	2015	900,648	834,534	817,816
	2016	917,805	842,800	827,031
	2017	925,935	859,220	837,767
	2018	927,606	876,457	855,853
America, South	2015	268,119	221,174	219,867
	2016	276,519	213,646	210,744
	2017	277,897	205,310	201,172
	2018	277,789	198,124	195,664
Argentina	2015	31,621	27,387	27,247
	2016	31,621	26,205	26,363
	2017	31,621	25,559	25,741
	2018	31,621	24,082	24,054
Bolivia (Plur. State of)	2015	3,394	2,979	2,641
	2016	*3,394	2,834	2,417
	2017	3,394	2,700	2,250
	2018	3,394	2,552	2,126
Brazil	2015	120,742	101,798	104,248
	2016	123,309	97,091	97,217
	2017	123,309	93,719	93,083
	2018	123,122	90,953	91,463

Table 16

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Chile	2015	11,628	10,085	9,685
	2016	10,972	9,934	9,429
	2017	11,471	9,933	9,648
	2018	*11,471	10,353	9,726
Colombia	2015	14,506	12,578	11,518
	2016	20,948	17,542	16,786
	2017	20,948	18,323	17,596
	2018	20,948	19,355	19,175
Ecuador	2015	8,728	6,672	6,217
	2016	8,723	8,134	7,695
	2017	8,786	8,350	7,759
	2018	8,865	8,563	8,259
Paraguay	2015	370	..	..
	2016	370	..	..
	2017	370	..	..
	2018	370	..	..
Peru	2015	9,923	8,590	8,252
	2016	9,923	8,792	8,561
	2017	9,923	9,632	9,373
	2018	9,923	9,384	9,036
Suriname	2015	743	393	433
	2016	745	514	536
	2017	743	655	674
	2018	743	644	660
Uruguay	2015	2,494	1,888	1,847
	2016	2,494	2,043	1,994
	2017	2,494	585	557
	2018	2,494	2,165	2,073
Venezuela (Bolivar. Rep.)	2015	63,970	48,803	47,779
	2016	64,020	40,556	39,747
	2017	64,838	35,854	34,492
	2018	64,838	30,073	29,092
Asia	2015	2,103,024	1,894,312	1,831,907
	2016	2,184,811	1,934,789	1,911,078
	2017	2,214,318	2,006,630	1,979,868
	2018	2,299,116	2,044,280	2,028,864
Azerbaijan	2015	10,000	6,485	6,410
	2016	10,000	6,000	5,865
	2017	5,985	5,878	5,568
	2018	*5,985	6,091	5,972
Bahrain	2015	*13,317	13,349	13,512
	2016	*13,317	12,854	13,058
	2017	*13,317	13,182	13,303
	2018	*13,317	12,940	13,227
Bangladesh	2015	1,502	1,294	1,247
	2016	1,502	1,268	1,174
	2017	1,502	1,621	1,432
	2018	1,920	1,439	1,249
Brunei Darussalam	2015	*1,000	493	468
	2016	*900	332	306
	2017	900	285	232
	2018	900	357	321

Table 16

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
China	2015	*700,000	621,892	603,236
	2016	*748,130	621,529	633,757
	2017	*790,000	666,438	678,284
	2018	*835,611	698,397	711,792
Georgia	2015	*5,440	*14	12
	2016	*5,440	26	25
	2017	*5,440	25	24
	2018	*5,440	24	22
India	2015	230,066	241,175	243,139
	2016	233,966	253,745	253,122
	2017	247,566	260,935	260,900
	2018	249,366	265,465	273,711
Indonesia	2015	46,957	39,388	36,947
	2016	46,957	44,250	37,793
	2017	46,957	44,402	38,923
	2018	58,210	42,375	38,887
Iran (Islamic Rep. of)	2015	85,366	85,812	86,802
	2016	92,347	87,369	89,102
	2017	92,347	89,736	87,782
	2018	*92,347	88,823	87,381
Iraq	2015	25,935	20,556	19,694
	2016	26,434	22,325	20,404
	2017	26,421	26,640	23,921
	2018	40,648	30,130	27,148
Israel	2015	14,300	14,765	14,765
	2016	14,300	14,172	14,174
	2017	15,225	14,088	14,088
	2018	15,225	14,782	14,783
Japan	2015	195,347	164,296	162,719
	2016	195,347	165,375	163,395
	2017	175,960	161,082	157,801
	2018	175,511	154,241	151,609
Jordan	2015	4,509	3,615	3,286
	2016	4,509	3,193	2,861
	2017	*4,509	3,005	2,671
	2018	*4,509	2,521	2,281
Kazakhstan	2015	16,958	*14,720	13,358
	2016	16,958	*13,703	12,827
	2017	16,958	*14,523	13,595
	2018	16,958	16,257	14,586
Korea, Dem.Ppl's.Rep.	2015	3,541	532	515
	2016	3,541	532	515
	2017	3,494	532	515
	2018	3,494	532	515
Korea, Republic of	2015	147,581	144,693	139,689
	2016	152,780	152,491	146,029
	2017	158,404	161,936	153,142
	2018	166,883	165,075	158,099
Kuwait	2015	46,683	43,450	42,165
	2016	46,683	41,749	37,847
	2017	39,202	33,813	32,151
	2018	36,708	35,101	32,449

Table 16

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Kyrgyzstan	2015	*700	323	320
	2016	*750	387	379
	2017	*800	445	431
	2018	*800	*549	544
Malaysia	2015	26,862	23,772	23,684
	2016	26,862	26,596	24,249
	2017	26,862	26,333	26,501
	2018	26,862	24,727	24,093
Myanmar	2015	2,545	*619	515
	2016	2,545	*428	394
	2017	2,545	*410	406
	2018	2,545	223	220
Oman	2015	11,072	10,822	10,812
	2016	11,072	10,877	10,876
	2017	15,112	*11,814	11,712
	2018	15,112	*13,719	13,477
Other Asia	2015	65,382	46,644	44,778
	2016	65,382	46,994	45,114
	2017	56,898	46,162	44,315
	2018	56,898	48,248	46,317
Pakistan	2015	18,790	12,133	11,831
	2016	19,370	12,497	12,276
	2017	19,950	*14,440	13,751
	2018	20,818	13,856	13,439
Philippines	2015	13,766	10,349	9,811
	2016	13,766	10,671	10,089
	2017	*13,766	10,380	9,847
	2018	*13,766	11,743	11,110
Qatar	2015	14,115	11,970	11,914
	2016	21,397	12,935	12,853
	2017	21,446	15,313	15,828
	2018	21,446	15,947	15,687
Saudi Arabia	2015	130,166	139,790	126,377
	2016	140,279	149,752	146,396
	2017	142,475	150,891	148,540
	2018	140,960	149,454	146,532
Singapore	2015	67,057	49,624	46,212
	2016	67,057	51,034	50,852
	2017	67,057	54,785	53,684
	2018	67,057	54,209	49,463
Sri Lanka	2015	2,494	1,692	1,615
	2016	2,494	1,746	1,647
	2017	2,494	1,646	1,636
	2018	2,494	1,675	1,607
Syrian Arab Republic	2015	11,963	6,564	6,488
	2016	11,963	7,079	6,996
	2017	11,963	7,861	7,768
	2018	11,963	7,360	7,275
Tajikistan	2015	*150	25	*22
	2016	150	25	24
	2017	150	24	23
	2018	*150	45	46

Table 16

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Thailand	2015	62,418	61,539	58,895
	2016	61,571	61,267	58,277
	2017	61,571	62,657	59,620
	2018	61,571	62,698	60,694
Turkey	2015	33,067	29,412	29,234
	2016	33,067	29,751	29,605
	2017	*33,067	32,071	31,940
	2018	*33,067	28,498	28,227
Turkmenistan	2015	13,017	8,906	8,550
	2016	13,017	8,896	8,540
	2017	13,017	8,888	8,532
	2018	13,017	8,882	8,526
United Arab Emirates	2015	56,119	51,885	41,612
	2016	56,119	51,141	49,179
	2017	56,119	53,299	50,401
	2018	56,210	51,926	52,431
Uzbekistan	2015	7,880	3,653	3,654
	2016	*7,880	3,807	3,653
	2017	*7,880	3,971	3,609
	2018	*7,880	4,215	3,847
Viet Nam	2015	9,975	7,118	6,721
	2016	9,975	7,150	6,656
	2017	*9,975	6,128	6,127
	2018	16,484	*10,309	10,303
Yemen	2015	6,983	942	899
	2016	6,983	842	769
	2017	*6,983	992	867
	2018	*6,983	1,448	994
Europe	2015	1,125,893	971,510	964,361
	2016	1,123,197	964,495	945,978
	2017	1,119,656	983,564	968,685
	2018	1,098,296	972,919	963,462
Albania	2015	1,496	276	288
	2016	1,494	184	183
	2017	1,494	513	503
	2018	1,494	298	291
Austria	2015	10,169	9,277	9,138
	2016	9,661	8,721	8,554
	2017	9,576	8,653	8,496
	2018	9,576	9,281	9,166
Belarus	2015	24,605	23,196	23,196
	2016	24,605	18,717	18,717
	2017	24,605	18,471	18,471
	2018	27,082	18,778	18,878
Belgium	2015	41,658	35,390	35,204
	2016	38,738	33,755	33,631
	2017	38,703	35,511	35,283
	2018	*38,703	34,344	34,069
Bosnia and Herzegovina	2015	*11,970	914	919
	2016	*11,970	836	826
	2017	*11,970	768	862
	2018	*11,970	697	704

Table 16

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Bulgaria	2015	9,726	6,935	6,681
	2016	9,726	7,268	6,942
	2017	*9,726	7,588	7,145
	2018	*9,726	6,486	6,189
Croatia	2015	10,699	3,376	3,342
	2016	10,699	3,765	3,715
	2017	*10,699	3,946	3,884
	2018	*10,699	3,980	3,930
Czechia	2015	9,676	7,542	7,508
	2016	9,676	5,710	5,604
	2017	*9,676	8,250	8,183
	2018	*9,676	7,864	7,848
Denmark	2015	8,449	9,127	8,923
	2016	8,449	9,141	9,091
	2017	9,027	8,797	8,759
	2018	*9,027	9,152	9,095
Finland	2015	13,017	12,601	12,565
	2016	13,017	14,563	14,308
	2017	13,017	14,806	14,726
	2018	13,017	14,798	14,468
France	2015	70,120	60,752	60,242
	2016	70,120	59,877	59,365
	2017	70,124	59,828	59,348
	2018	70,124	56,115	55,639
Germany	2015	109,122	101,403	99,200
	2016	109,176	102,772	100,381
	2017	104,400	103,934	101,529
	2018	*104,400	99,453	97,088
Greece	2015	*26,234	28,507	28,427
	2016	*26,234	30,232	30,217
	2017	*26,234	31,777	31,765
	2018	*26,234	32,786	32,771
Hungary	2015	8,030	7,557	7,473
	2016	8,030	7,403	7,334
	2017	8,100	7,227	7,153
	2018	8,229	7,737	7,658
Ireland	2015	3,541	3,380	3,365
	2016	3,541	3,233	3,180
	2017	3,741	3,192	3,189
	2018	3,741	3,061	3,058
Italy	2015	100,404	74,675	73,935
	2016	100,418	72,039	71,361
	2017	100,904	75,646	74,944
	2018	100,904	72,400	71,742
Lithuania	2015	9,476	9,018	8,920
	2016	*10,220	9,914	9,790
	2017	*10,220	10,129	10,020
	2018	10,220	9,891	9,783
Netherlands	2015	60,503	59,585	59,091
	2016	60,503	60,492	60,097
	2017	65,835	60,004	59,665
	2018	65,835	61,096	60,917

Table 16

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
North Macedonia	2015	2,494	0	0
	2016	2,494	0	0
	2017	2,494	0	0
	2018	2,494	..	..
Norway	2015	15,910	16,254	16,151
	2016	15,910	13,028	13,014
	2017	17,955	16,094	16,178
	2018	*17,955	17,046	17,036
Poland	2015	29,250	27,821	27,502
	2016	29,250	27,470	27,027
	2017	29,250	27,220	26,692
	2018	29,250	28,866	28,226
Portugal	2015	16,459	15,092	15,092
	2016	16,459	14,915	14,915
	2017	16,459	15,478	15,478
	2018	16,459	13,847	13,797
Republic of Moldova	2015	19	11	11
	2016	19	16	16
	2017	19	15	15
	2018	19	10	10
Romania	2015	18,968	11,530	11,530
	2016	18,824	12,194	12,194
	2017	18,853	12,484	12,461
	2018	*18,853	12,596	12,583
Russian Federation	2015	287,200	283,262	282,886
	2016	287,200	285,274	273,944
	2017	287,200	289,136	281,548
	2018	*287,200	286,135	285,776
Serbia	2015	10,715	3,402	3,382
	2016	10,715	3,456	3,435
	2017	10,715	3,659	3,638
	2018	*10,715	3,880	3,859
Slovakia	2015	5,736	6,487	6,437
	2016	5,736	6,274	6,214
	2017	*5,736	6,150	6,119
	2018	*5,736	5,950	5,930
Slovenia	2015	673	..	..
	2016	673	..	..
	2017	673	..	..
	2018	673	..	..
Spain	2015	71,197	65,663	64,967
	2016	71,197	65,696	64,893
	2017	71,197	66,825	65,766
	2018	71,197	68,717	67,599
Sweden	2015	21,796	21,214	21,367
	2016	21,796	21,085	21,211
	2017	*21,796	20,703	21,132
	2018	*21,796	21,994	21,649
Switzerland	2015	3,392	2,874	2,837
	2016	3,392	3,007	3,005
	2017	3,392	2,895	2,877
	2018	3,392	3,070	3,070

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Ukraine	2015	43,878	2,949	2,849
	2016	43,944	3,014	2,851
	2017	43,566	3,584	3,050
	2018	*19,600	3,890	2,460
United Kingdom	2015	69,312	61,440	60,933
	2016	69,312	60,444	59,963
	2017	*62,300	60,281	59,806
	2018	*62,300	58,701	58,173
Oceania	2015	29,262	33,503	31,961
	2016	29,262	30,339	28,763
	2017	30,658	29,552	27,855
	2018	30,683	31,024	28,782
Australia	2015	22,329	27,260	25,718
	2016	22,329	23,410	21,873
	2017	22,329	22,604	21,134
	2018	22,354	24,064	22,067
New Zealand	2015	5,337	5,635	5,612
	2016	5,337	5,522	5,522
	2017	6,733	5,527	5,343
	2018	6,733	5,532	5,330
Papua New Guinea	2015	1,596	608	631
	2016	1,596	1,407	1,368
	2017	*1,596	1,421	1,378
	2018	*1,596	*1,428	*1,385

Production, trade and supply of liquefied petroleum gases (LPG)

Thousand metric tons and kilograms per capita

Table Notes

Production includes output from refineries and plants.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description/ classification, and xvi to xvii for the descriptions of relevant flows.

Figure 45: Production of LPG by region, 1990-2018

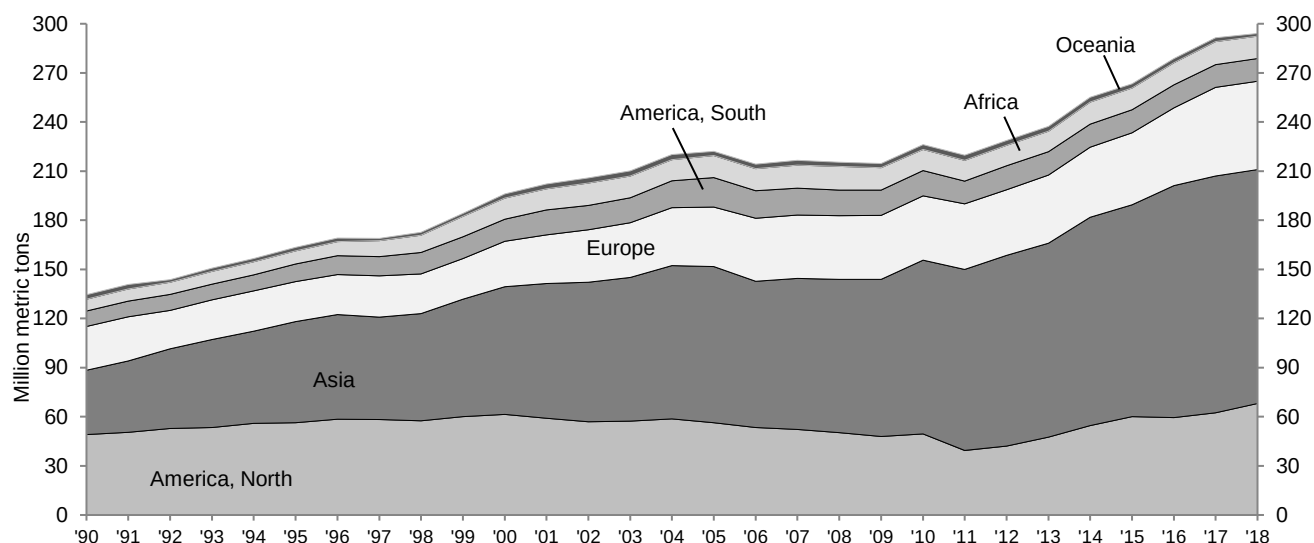


Figure 46: Major LPG producing countries, 2018

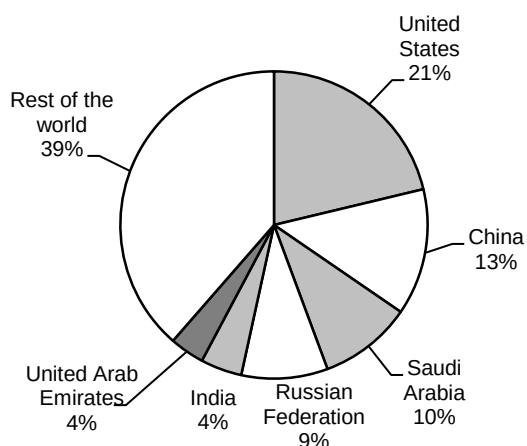


Figure 47: Major LPG consuming countries, 2018

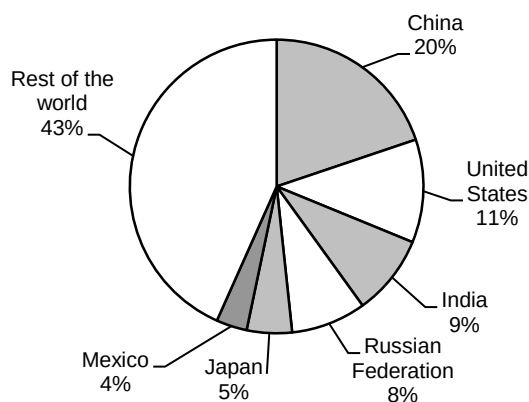


Table 17

Production, trade and supply of liquefied petroleum gases (LPG)

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
World	2015	263,403	98,967	106,212	768	255,390	35
	2016	278,695	109,939	121,705	-2,408	269,338	36
	2017	291,397	115,259	126,318	-146	280,484	37
	2018	294,067	121,989	126,664	267	289,126	38
Africa	2015	13,168	6,655	8,619	-479	11,683	10
	2016	13,662	6,986	8,525	-176	12,299	10
	2017	14,122	7,517	8,736	183	12,720	10
	2018	13,609	7,874	8,390	27	13,065	10
Algeria	2015	9,351	..	7,564	-110	1,897	48
	2016	9,358	..	7,310	9	2,039	50
	2017	9,155	..	6,932	24	2,199	53
	2018	8,972	..	6,617	27	2,328	55
Angola	2015	26	166	330	*-289	151	5
	2016	252	71	360	*-148	111	4
	2017	968	327	957	*110	228	8
	2018	839	336	1,045	*-73	203	7
Benin	2015	..	15	..	2	13	1
	2016	..	16	..	-1	17	2
	2017	..	16	..	-1	17	2
	2018	..	22	..	..	22	2
Botswana	2015	..	6	..	..	6	3
	2016	..	11	..	..	11	5
	2017	..	11	..	..	11	5
	2018	..	12	..	..	12	5
Burkina Faso	2015	..	66	..	*4	62	3
	2016	..	74	..	*2	72	4
	2017	..	85	..	*6	79	4
	2018	..	100	..	*11	89	5
Burundi	2015	..	1	..	..	1	0
	2016	..	0	..	..	0	0
	2017	..	0	..	..	0	0
	2018	..	0	..	..	0	0
Cabo Verde	2015	..	*12	..	..	*12	*23
	2016	..	13	..	..	13	24
	2017	..	*13	..	..	*13	*24
	2018	..	*13	..	..	*13	*24
Cameroon	2015	13	73	..	..	86	4
	2016	13	80	..	..	93	4
	2017	11	66	..	..	77	3
	2018	10	60	..	..	70	3
Central African Rep.	2015	..	2	..	..	2	0
	2016	..	2	..	..	2	0
	2017	..	2	..	..	2	0
	2018	..	2	..	..	2	0
Chad	2015	*59	..	*38	..	*21	*1
	2016	*52	..	*31	..	*21	*1
	2017	*52	..	*30	..	*22	*1
	2018	*52	..	*30	..	*22	*1
Comoros	2015	..	*1	..	..	*1	*1
	2016	..	*1	..	..	*1	*1
	2017	..	*1	..	..	*1	*1
	2018	..	*1	..	..	*1	*2

Table 17

Production, trade and supply of liquefied petroleum gases (LPG)

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Congo	2015	7	..	..	..	7	1
	2016	7	..	..	..	7	1
	2017	8	..	..	..	8	2
	2018	8	..	..	..	8	2
Côte d'Ivoire	2015	14	233	15	..	232	10
	2016	22	248	1	..	269	11
	2017	*16	*297	1	..	*312	*13
	2018	23	341	1	..	363	14
Djibouti	2015	..	19	..	..	19	21
	2016	..	15	..	..	15	16
	2017	..	*15	..	..	*15	*16
	2018	..	*15	..	..	*15	*16
Egypt	2015	1,939	2,333	..	-18	4,290	46
	2016	1,852	2,444	..	-25	4,321	46
	2017	1,763	2,444	..	35	4,172	43
	2018	1,890	2,327	..	0	4,217	43
Equatorial Guinea	2015	542	..	553	*-36	25	21
	2016	605	..	604	*-23	24	20
	2017	660	..	656	-17	22	17
	2018	587	..	574	*-10	23	17
Eritrea	2015	..	5	..	..	5	1
	2016	..	6	..	..	6	2
	2017	..	6	..	..	6	2
	2018	..	7	..	..	7	2
Eswatini	2015	..	*4	..	..	*4	*4
	2016	..	*2	..	..	*2	*2
	2017	..	0	..	..	0	0
	2018	..	4	..	..	4	4
Ethiopia	2015	..	7	..	..	7	0
	2016	..	8	..	..	8	0
	2017	..	5	..	..	5	0
	2018	..	5	..	..	5	0
Gabon	2015	13	23	..	..	36	18
	2016	14	23	..	..	37	18
	2017	41	36	..	9	68	33
	2018	41	27	..	..	68	32
Gambia	2015	..	*2	..	..	*2	*1
	2016	..	*2	..	..	*2	*1
	2017	..	*2	..	..	*2	*1
	2018	..	*2	..	..	*2	*1
Ghana	2015	2	198	0	..	200	7
	2016	114	178	25	..	267	9
	2017	114	202	40	..	276	9
	2018	88	306	5	..	389	13
Guinea-Bissau	2015	..	*3	..	..	*3	*2
	2016	..	*3	..	..	*3	*2
	2017	..	*3	..	..	*3	*2
	2018	..	*3	..	..	*3	*2
Kenya	2015	0	154	6	0	149	3
	2016	0	172	3	0	169	3
	2017	0	190	1	0	189	4
	2018	..	222	..	..	222	4

Table 17

Production, trade and supply of liquefied petroleum gases (LPG)

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Lesotho	2015	..	7	..	..	7	3
	2016	..	7	..	..	7	4
	2017	..	9	..	..	9	4
	2018	..	10	..	..	10	5
Liberia	2015	..	*3	..	..	*3	*1
	2016	..	*3	..	..	*3	*1
	2017	..	*3	..	..	*3	*1
	2018	..	*3	..	..	*3	*1
Libya	2015	316	..	52	..	264	41
	2016	311	..	42	..	269	41
	2017	320	..	43	..	277	42
	2018	327	..	46	..	281	42
Madagascar	2015	..	12	..	-1	13	1
	2016	..	13	..	*6	8	0
	2017	..	12	..	-2	13	1
	2018	..	14	..	0	14	1
Malawi	2015	..	*2	..	..	*2	0
	2016	..	*3	..	..	*3	0
	2017	..	*3	..	..	*3	0
	2018	..	*3	..	..	*3	0
Mali	2015	..	11	..	*-2	13	1
	2016	..	15	..	0	15	1
	2017	..	20	..	*4	16	1
	2018	..	*18	..	0	*18	*1
Mauritania	2015	..	*56	..	..	*56	*14
	2016	..	62	..	..	62	15
	2017	..	61	..	*-2	64	15
	2018	..	58	..	*-3	61	14
Mauritius	2015	..	72	..	-1	73	58
	2016	..	167	*91	1	75	59
	2017	..	149	..	74	75	59
	2018	..	169	..	91	78	62
Morocco	2015	29	2,306	..	-31	2,366	67
	2016	0	2,472	..	7	2,465	69
	2017	..	2,493	..	-59	2,552	71
	2018	..	2,592	..	-13	2,605	71
Mozambique	2015	..	19	..	-1	19	1
	2016	..	19	..	0	19	1
	2017	..	30	..	2	28	1
	2018	..	32	..	-1	33	1
Namibia	2015	..	11	..	..	11	5
	2016	..	22	..	..	22	9
	2017	..	37	..	..	37	15
	2018	..	55	..	..	55	22
Niger	2015	44	2	14	0	31	2
	2016	35	0	4	0	32	2
	2017	47	0	*15	0	32	1
	2018	53	1	16	..	38	2
Nigeria	2015	39	..	..	..	39	0
	2016	66	..	..	..	66	0
	2017	79	..	..	..	79	0
	2018	48	57	..	..	105	1

Table 17

Production, trade and supply of liquefied petroleum gases (LPG)

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Rwanda	2015	..	4	..	..	4	0
	2016	..	6	..	..	6	0
	2017	..	11	..	..	11	1
	2018	..	17	..	..	17	1
Sao Tome and Principe	2015	..	0	..	..	0	*1
	2016	..	0	..	..	0	0
	2017	..	0	..	..	0	0
	2018	..	0	..	..	0	0
Senegal	2015	5	127	9	0	123	8
	2016	3	147	14	-1	137	9
	2017	3	151	..	..	154	10
	2018	3	138	..	..	141	9
Seychelles	2015	..	4	..	..	4	44
	2016	..	3	..	..	3	36
	2017	..	5	..	..	5	52
	2018	..	4	..	..	4	37
Somalia	2015	..	*6	..	..	*6	0
	2016	..	*6	..	..	*6	0
	2017	..	*6	..	..	*6	0
	2018	..	*6	..	..	*6	0
South Africa	2015	299	53	37	..	315	6
	2016	420	105	41	..	484	9
	2017	405	105	60	..	450	8
	2018	246	114	56	..	304	5
South Sudan	2015	..	4	..	..	4	0
	2016	..	3	..	..	3	0
	2017	..	3	..	..	3	0
	2018	..	3	..	..	3	0
Sudan	2015	304	142	..	..	446	11
	2016	373	57	..	..	430	11
	2017	329	115	..	..	444	11
	2018	277	161	..	..	439	10
Togo	2015	..	10	..	..	10	1
	2016	..	7	..	..	7	1
	2017	..	12	..	..	12	2
	2018	..	12	..	-1	13	2
Tunisia	2015	156	384	..	3	537	48
	2016	160	363	..	-3	526	47
	2017	142	420	..	0	562	49
	2018	136	443	..	..	579	50
Uganda	2015	..	6	..	..	6	0
	2016	..	*5	..	..	*5	0
	2017	..	*4	..	..	*4	0
	2018	..	*5	..	..	*5	0
United Rep. of Tanzania	2015	..	71	..	..	71	1
	2016	..	107	..	..	107	2
	2017	..	121	..	..	121	2
	2018	..	128	..	..	128	2
Zambia	2015	10	..	1	..	9	1
	2016	5	..	1	..	4	0
	2017	9	..	1	..	8	0
	2018	9	..	1	..	8	0

Table 17

Production, trade and supply of liquefied petroleum gases (LPG)

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Zimbabwe	2015	..	20	..	..	20	1
	2016	..	25	..	..	25	2
	2017	..	26	..	..	26	2
	2018	..	26	..	..	26	2
America, North	2015	60,031	9,799	22,972	1,573	45,284	80
	2016	59,554	11,739	28,596	-2,023	44,720	78
	2017	62,389	13,903	32,791	-277	43,778	76
	2018	68,121	15,130	36,096	102	47,053	81
Anguilla	2015	..	9	..	..	9	637
	2016	..	9	..	..	9	630
	2017	..	*9	..	..	*9	*590
	2018	..	*9	..	..	*9	*590
Antigua and Barbuda	2015	..	*4	..	..	*4	*37
	2016	..	*4	..	..	*4	*38
	2017	..	*4	..	..	*4	*38
	2018	..	*4	..	..	*4	*38
Aruba	2015	..	*11	..	..	*11	*103
	2016	..	*11	..	..	*11	*102
	2017	..	*11	..	..	*11	*104
	2018	..	*11	..	..	*11	*105
Bahamas	2015	..	19	..	..	19	51
	2016	..	14	..	..	14	38
	2017	..	14	..	..	14	37
	2018	..	19	..	..	19	49
Barbados	2015	..	7	..	0	7	26
	2016	..	8	..	0	8	26
	2017	..	8	..	0	8	27
	2018	..	8	..	0	8	27
Belize	2015	1	21	..	..	22	60
	2016	1	23	..	..	24	66
	2017	1	25	..	..	26	70
	2018	1	27	..	..	28	73
Bermuda	2015	..	3	..	..	3	54
	2016	..	26	..	..	26	403
	2017	..	4	..	..	4	70
	2018	..	16	..	..	16	247
Bonaire, St Eustatius, Saba	2015	..	*8	..	..	*8	*338
	2016	..	*8	..	..	*8	*336
	2017	..	*9	..	..	*9	*335
	2018	..	*9	..	..	*9	*350
Canada	2015	1,272	123	356	-121	1,160	32
	2016	1,165	244	137	-110	1,382	38
	2017	1,524	249	144	33	1,596	43
	2018	1,362	200	120	-9	1,451	39
Cayman Islands	2015	..	4	..	..	4	65
	2016	..	5	..	..	5	80
	2017	..	5	..	..	5	79
	2018	..	4	..	..	4	64
Costa Rica	2015	..	140	..	-3	143	29
	2016	..	158	..	1	157	32
	2017	..	173	..	4	169	34
	2018	..	167	..	-4	171	34

Table 17

Production, trade and supply of liquefied petroleum gases (LPG)

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Cuba	2015	51	79	..	..	130	12
	2016	36	77	..	*-28	141	12
	2017	51	115	..	..	167	15
	2018	30	135	..	..	165	15
Curaçao	2015	59	0	49	..	10	63
	2016	45	0	38	..	7	43
	2017	24	..	20	..	4	25
	2018	18	..	15	..	3	18
Dominica	2015	..	*2	..	..	*2	*33
	2016	..	*2	..	..	*2	*33
	2017	..	*2	..	..	*2	*32
	2018	..	*2	..	..	*2	*32
Dominican Republic	2015	7	918	..	4	921	90
	2016	16	961	..	-2	980	94
	2017	11	977	..	-2	989	94
	2018	14	1,012	..	3	1,023	96
El Salvador	2015	0	287	6	..	281	44
	2016	0	311	110	..	201	32
	2017	..	322	142	..	180	28
	2018	..	449	137	..	312	49
Greenland	2015	..	0	..	..	0	1
	2016	..	0	..	..	0	1
	2017	..	0	..	..	0	1
	2018	..	0	..	..	0	*1
Grenada	2015	..	4	..	..	4	41
	2016	..	4	..	..	4	37
	2017	..	4	..	..	4	38
	2018	..	4	..	..	4	39
Guatemala	2015	..	340	103	3	235	14
	2016	..	369	109	8	251	15
	2017	..	581	169	17	395	23
	2018	..	544	154	-21	411	24
Haiti	2015	..	15	..	..	15	1
	2016	..	20	..	..	20	2
	2017	..	17	..	..	17	2
	2018	..	18	..	..	18	2
Honduras	2015	..	130	387	-384	127	14
	2016	..	135	201	-218	152	16
	2017	..	370	222	-13	161	17
	2018	..	401	205	11	185	19
Jamaica	2015	7	72	..	0	78	27
	2016	9	68	..	1	76	26
	2017	13	87	..	1	99	34
	2018	11	85	..	1	95	32
Mexico	2015	5,171	3,488	1	186	8,472	70
	2016	4,722	4,556	154	39	9,085	74
	2017	4,311	5,587	178	-54	9,774	78
	2018	3,674	6,169	86	-36	9,793	78
Montserrat	2015	..	1	..	0	1	101
	2016	..	0	..	0	0	60
	2017	..	1	..	0	1	120
	2018	..	*1	..	..	*1	*126

Table 17

Production, trade and supply of liquefied petroleum gases (LPG)

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Nicaragua	2015	13	89	..	-1	104	17
	2016	18	100	..	0	118	19
	2017	20	105	..	0	125	20
	2018	17	108	..	..	125	19
Panama	2015	..	222	0	33	189	48
	2016	..	222	0	23	199	49
	2017	..	288	0	-40	328	80
	2018	..	323	0	7	316	76
Sint Maarten (Dutch part)	2015	..	*2	..	..	*2	*50
	2016	..	*2	..	..	*2	*49
	2017	..	*2	..	..	*2	*46
	2018	..	*2	..	..	*2	*45
St. Kitts-Nevis	2015	..	*2	..	..	*2	*39
	2016	..	*2	..	..	*2	*41
	2017	..	*2	..	..	*2	*40
	2018	..	*2	..	..	*2	*42
St. Lucia	2015	..	7	..	..	7	38
	2016	..	7	..	..	7	37
	2017	..	9	..	..	9	51
	2018	..	8	..	..	8	46
St. Vincent-Grenadines	2015	..	11	..	..	11	104
	2016	..	9	..	..	9	79
	2017	..	8	..	..	8	68
	2018	..	8	..	..	8	74
Trinidad and Tobago	2015	665	..	494	113	58	42
	2016	561	..	379	188	-6	-4
	2017	610	..	433	163	14	10
	2018	493	..	362	133	-2	-1
United States	2015	52,785	3,779	21,576	1,744	33,244	104
	2016	52,981	4,386	27,468	-1,924	31,823	99
	2017	55,824	4,916	31,483	-386	29,643	91
	2018	62,501	5,385	35,017	17	32,852	100
America, South	2015	14,225	3,567	1,021	-43	16,814	41
	2016	13,993	3,953	1,185	-195	16,956	41
	2017	13,820	4,131	1,280	-91	16,762	40
	2018	13,932	4,513	1,476	-49	17,018	40
Argentina	2015	2,583	..	855	0	1,728	40
	2016	2,604	..	879	-27	1,752	40
	2017	2,577	..	891	35	1,651	38
	2018	2,668	..	1,133	-22	1,557	35
Bolivia (Plur. State of)	2015	426	0	49	-57	434	40
	2016	533	..	128	-22	427	39
	2017	523	..	115	-38	446	40
	2018	543	..	107	-13	449	40
Brazil	2015	5,477	1,722	15	2	7,182	35
	2016	5,417	1,864	0	-40	7,321	36
	2017	5,492	1,777	1	59	7,209	35
	2018	5,350	1,881	0	84	7,147	34
Chile	2015	305	777	37	33	1,012	56
	2016	251	1,070	12	-31	1,340	74
	2017	286	1,047	72	-6	1,267	69
	2018	434	1,072	114	44	1,348	72

Table 17

Production, trade and supply of liquefied petroleum gases (LPG)

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Colombia	2015	742	1	20	..	723	15
	2016	800	12	46	..	766	16
	2017	873	62	35	..	900	18
	2018	546	81	..	..	627	13
Ecuador	2015	141	890	..	-1	1,032	64
	2016	252	814	..	1	1,065	65
	2017	256	814	..	-1	1,071	64
	2018	390	957	..	0	1,347	79
Guyana	2015	..	17	..	0	17	22
	2016	..	16	..	-2	18	24
	2017	..	16	..	-1	17	22
	2018	..	17	..	-2	19	24
Paraguay	2015	..	85	..	2	83	12
	2016	..	92	..	11	81	12
	2017	..	84	..	3	81	12
	2018	..	90	..	4	87	12
Peru	2015	1,655	19	25	-21	1,670	55
	2016	1,641	34	0	-84	1,759	57
	2017	1,551	222	54	-140	1,858	59
	2018	1,495	378	6	-146	2,012	63
Suriname	2015	..	14	..	..	14	26
	2016	..	13	..	..	13	23
	2017	..	13	..	..	13	24
	2018	..	13	..	..	13	22
Uruguay	2015	80	42	..	-1	123	36
	2016	96	38	..	0	135	39
	2017	22	96	..	-3	121	35
	2018	106	24	..	2	128	37
Venezuela (Bolivar. Rep.)	2015	2,816	..	20	..	2,796	93
	2016	2,399	..	120	..	2,279	76
	2017	2,239	..	112	..	2,127	72
	2018	2,400	..	116	..	2,284	79
Asia	2015	129,325	55,917	53,725	-295	131,812	30
	2016	141,597	63,055	61,673	133	142,847	32
	2017	144,666	65,649	61,712	-132	148,735	33
	2018	142,895	69,043	57,848	51	154,039	34
Armenia	2015	..	7	..	..	7	2
	2016	..	4	..	..	4	1
	2017	..	6	..	..	6	2
	2018	..	16	..	..	16	5
Azerbaijan	2015	172	..	15	4	153	16
	2016	200	..	59	0	141	14
	2017	212	..	82	-3	133	14
	2018	216	..	82	1	132	13
Bahrain	2015	159	..	71	26	62	45
	2016	162	..	79	18	65	46
	2017	149	..	66	14	69	46
	2018	166	..	66	29	71	45
Bangladesh	2015	18	..	..	..	18	0
	2016	18	..	..	..	18	0
	2017	18	..	..	..	18	0
	2018	15	..	..	..	15	0

Table 17

Production, trade and supply of liquefied petroleum gases (LPG)

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Bhutan	2015	..	7	..	..	7	10
	2016	..	9	..	..	9	12
	2017	..	9	..	..	9	12
	2018	..	10	..	..	10	13
Brunei Darussalam	2015	18	..	..	..	18	43
	2016	16	..	..	..	16	38
	2017	17	..	..	..	17	40
	2018	17	..	..	..	17	40
Cambodia	2015	..	162	..	..	162	10
	2016	..	194	..	..	194	12
	2017	..	224	..	..	224	14
	2018	..	245	..	..	245	15
China	2015	29,344	12,440	1,442	260	40,082	28
	2016	35,039	16,785	1,323	160	50,340	36
	2017	36,625	19,219	1,322	-59	54,581	38
	2018	39,156	19,664	1,135	351	57,334	40
China, Hong Kong SAR	2015	..	378	0	3	375	52
	2016	..	362	0	-11	373	51
	2017	..	378	..	41	337	46
	2018	..	373	..	34	339	46
China, Macao SAR	2015	..	45	..	..	45	75
	2016	..	43	..	..	43	70
	2017	..	42	..	..	42	67
	2018	..	41	..	..	41	65
Cyprus	2015	..	54	..	0	54	47
	2016	..	53	..	..	53	45
	2017	..	55	..	1	54	46
	2018	..	54	..	..	54	45
Georgia	2015	..	15	..	-3	18	5
	2016	..	13	..	-4	16	4
	2017	..	15	..	-1	17	4
	2018	..	21	..	-1	21	5
India	2015	11,057	8,885	195	0	19,747	15
	2016	11,326	11,026	317	0	22,035	17
	2017	12,380	11,382	359	..	23,403	17
	2018	*12,786	13,235	417	..	25,604	19
Indonesia	2015	2,331	6,044	26	..	8,349	32
	2016	2,302	4,435	65	..	6,672	26
	2017	2,033	5,475	93	-41	7,456	28
	2018	2,034	5,517	1	1	7,549	28
Iran (Islamic Rep. of)	2015	7,717	0	4,514	..	3,202	41
	2016	8,160	..	5,344	..	2,816	35
	2017	7,523	..	*5,325	0	2,198	27
	2018	7,456	..	*5,116	..	2,340	29
Iraq	2015	820	248	..	-411	1,479	42
	2016	1,369	297	..	1	1,665	45
	2017	1,622	0	..	-29	1,651	44
	2018	1,782	..	206	..	1,576	41
Israel	2015	381	245	167	-6	465	58
	2016	354	273	170	-2	459	57
	2017	362	308	186	6	478	58
	2018	422	202	164	1	459	55

Table 17

Production, trade and supply of liquefied petroleum gases (LPG)

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Japan	2015	4,320	10,913	90	136	15,007	117
	2016	4,210	10,542	76	-56	14,732	115
	2017	4,416	10,740	86	-29	15,099	118
	2018	3,755	10,608	66	-94	14,391	113
Jordan	2015	80	335	..	..	415	45
	2016	81	327	..	..	408	43
	2017	78	368	..	..	446	46
	2018	65	357	..	-6	428	43
Kazakhstan	2015	2,068	1	1,997	0	72	4
	2016	*2,111	2	1,876	8	*229	*13
	2017	2,315	1	2,031	..	285	16
	2018	2,488	0	1,826	..	662	36
Korea, Republic of	2015	2,187	5,270	107	-297	7,647	150
	2016	2,244	7,250	164	78	9,252	181
	2017	2,773	6,363	210	169	8,757	171
	2018	2,922	6,515	430	-203	9,210	180
Kuwait	2015	4,892	..	4,791	..	101	26
	2016	6,032	..	5,574	..	458	116
	2017	6,877	..	6,353	..	524	129
	2018	7,042	..	6,462	..	580	140
Kyrgyzstan	2015	13	5	..	..	18	3
	2016	27	11	..	-1	39	6
	2017	44	45	..	..	89	14
	2018	55	36	1	4	86	14
Lao People's Dem. Rep.	2015	..	4	..	..	4	1
	2016	..	*4	..	..	*4	*1
	2017	..	*4	..	..	*4	*1
	2018	..	*4	..	..	*4	*1
Lebanon	2015	..	239	..	..	239	37
	2016	..	239	..	..	239	36
	2017	..	235	..	..	235	34
	2018	..	229	..	..	229	33
Malaysia	2015	1,823	322	250	-148	2,043	67
	2016	3,074	450	326	-28	3,226	105
	2017	2,602	405	191	-19	2,835	91
	2018	2,732	491	419	-102	2,906	92
Maldives	2015	..	12	..	..	12	27
	2016	..	14	..	..	14	29
	2017	..	14	..	..	14	29
	2018	..	15	..	..	15	29
Myanmar	2015	4	23	..	-3	29	1
	2016	6	22	..	-2	30	1
	2017	8	39	..	-3	50	1
	2018	13	18	..	..	31	1
Nepal	2015	..	214	..	..	214	8
	2016	..	313	..	..	313	11
	2017	..	371	..	..	371	13
	2018	..	429	..	..	429	15
Oman	2015	564	..	422	..	142	33
	2016	532	..	376	..	156	35
	2017	657	..	464	..	193	41
	2018	689	..	560	..	129	27

Table 17

Production, trade and supply of liquefied petroleum gases (LPG)

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Other Asia	2015	936	1,353	8	12	2,269	96
	2016	1,108	1,722	4	-30	2,856	121
	2017	1,018	1,260	26	-31	2,283	96
	2018	1,131	1,742	80	50	2,743	116
Pakistan	2015	641	199	..	..	840	4
	2016	667	498	..	..	1,165	6
	2017	*963	495	..	..	*1,458	*7
	2018	*774	478	..	..	*1,252	*6
Philippines	2015	454	832	5	4	1,277	13
	2016	460	997	3	4	1,449	14
	2017	446	1,194	6	13	1,621	15
	2018	509	1,307	1	9	1,806	17
Qatar	2015	10,115	..	9,152	..	963	375
	2016	10,169	..	9,232	..	937	353
	2017	10,014	..	9,030	..	984	361
	2018	7,158	..	6,148	..	1,010	363
Saudi Arabia	2015	27,369	..	20,293	-3	7,079	223
	2016	29,169	..	25,103	14	4,052	125
	2017	28,804	..	*24,601	-12	4,216	127
	2018	26,729	..	23,797	..	2,932	87
Singapore	2015	318	83	223	..	178	32
	2016	333	9	236	..	106	19
	2017	224	218	317	..	125	22
	2018	833	400	242	..	991	172
Sri Lanka	2015	10	277	..	-7	293	14
	2016	9	345	..	-2	356	17
	2017	19	205	..	-187	412	19
	2018	22	413	..	-9	444	21
State of Palestine	2015	..	167	..	..	167	37
	2016	..	172	..	..	172	37
	2017	..	190	..	..	190	40
	2018	..	167	..	..	167	34
Syrian Arab Republic	2015	144	305	..	..	449	25
	2016	149	334	..	..	483	28
	2017	157	381	..	..	538	31
	2018	152	352	..	..	504	30
Tajikistan	2015	..	336	..	..	336	40
	2016	..	349	..	..	349	40
	2017	..	353	..	..	353	40
	2018	..	381	..	..	381	42
Thailand	2015	6,136	1,370	36	..	7,470	109
	2016	6,352	456	82	..	6,726	98
	2017	6,689	642	247	..	7,084	102
	2018	6,782	682	385	..	7,079	102
Turkey	2015	899	3,462	258	145	3,958	50
	2016	972	3,419	214	-25	4,202	53
	2017	1,015	3,387	269	41	4,092	50
	2018	913	3,312	110	-14	4,129	50
Turkmenistan	2015	1,034	..	..	..	1,034	186
	2016	998	..	..	..	998	176
	2017	1,015	..	..	..	1,015	176
	2018	1,067	..	..	..	1,067	182

Table 17

Production, trade and supply of liquefied petroleum gases (LPG)

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
United Arab Emirates	2015	11,724	40	9,323	..	2,440	263
	2016	12,140	438	10,777	..	1,800	192
	2017	11,841	..	10,448	..	1,393	147
	2018	10,716	..	9,833	..	883	92
Uzbekistan	2015	682	27	..	-7	715	23
	2016	856	..	..	12	844	27
	2017	830	..	..	-2	832	26
	2018	819	..	..	-1	819	25
Viet Nam	2015	728	1,083	300	..	1,511	16
	2016	799	1,231	272	..	1,758	19
	2017	761	1,364	..	..	2,125	22
	2018	1,408	1,445	302	..	2,551	27
Yemen	2015	168	*517	40	..	*645	*24
	2016	*156	*419	..	..	*575	*21
	2017	*158	*261	..	..	*419	*15
	2018	73	*285	..	..	*358	*13
Europe	2015	43,984	22,434	18,687	50	47,680	64
	2016	47,489	23,629	20,595	-229	50,752	68
	2017	54,149	23,443	20,577	205	56,811	76
	2018	53,888	24,906	21,613	65	57,116	76
Albania	2015	..	184	0	48	136	47
	2016	..	189	0	49	140	49
	2017	..	252	0	90	162	56
	2018	..	196	..	25	171	59
Andorra	2015	..	*2	..	..	*2	*28
	2016	..	*2	..	..	*2	*28
	2017	..	*2	..	..	*2	*29
	2018	..	*2	..	..	*2	*31
Austria	2015	139	54	83	3	107	12
	2016	122	53	68	2	105	12
	2017	102	62	62	-3	105	12
	2018	111	62	86	-1	88	10
Belarus	2015	472	61	446	-3	90	10
	2016	358	65	346	-11	88	9
	2017	410	251	591	-4	74	8
	2018	465	177	601	-1	42	4
Belgium	2015	671	1,891	764	-8	1,806	160
	2016	697	1,681	818	23	1,537	135
	2017	738	1,671	845	-13	1,577	138
	2018	829	2,128	672	9	2,276	198
Bosnia and Herzegovina	2015	24	45	..	1	68	20
	2016	19	63	..	..	82	24
	2017	24	76	..	..	100	30
	2018	19	72	..	..	91	27
Bulgaria	2015	102	395	15	11	471	65
	2016	103	416	19	-6	506	71
	2017	120	407	20	5	502	71
	2018	97	410	29	-2	480	68
Croatia	2015	248	36	143	1	140	33
	2016	248	54	155	2	145	34
	2017	284	47	188	-1	144	34
	2018	254	41	159	-3	139	33

Table 17

Production, trade and supply of liquefied petroleum gases (LPG)

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Czechia	2015	220	176	140	-2	258	24
	2016	255	183	139	5	294	28
	2017	358	172	90	-1	441	41
	2018	356	231	134	..	453	42
Denmark	2015	123	26	95	1	53	9
	2016	102	32	78	-2	58	10
	2017	118	35	85	3	65	11
	2018	126	21	87	..	60	10
Estonia	2015	..	26	7	1	18	14
	2016	..	36	13	1	22	17
	2017	..	40	14	1	25	19
	2018	..	25	5	..	20	15
Finland	2015	241	776	1	-15	1,031	188
	2016	275	738	10	-57	1,060	193
	2017	285	707	..	103	889	161
	2018	254	785	5	-53	1,087	197
France	2015	1,581	3,554	1,248	-27	3,914	59
	2016	1,528	3,483	1,188	-12	3,835	57
	2017	1,618	3,315	1,225	15	3,693	55
	2018	1,421	3,148	1,056	9	3,504	52
Germany	2015	2,656	732	259	-3	3,132	38
	2016	2,744	790	189	-7	3,352	41
	2017	3,419	944	201	1	4,161	50
	2018	3,224	1,081	161	13	4,131	50
Greece	2015	703	66	179	-2	592	56
	2016	824	33	250	6	601	57
	2017	837	43	309	-3	574	54
	2018	847	31	329	1	548	52
Hungary	2015	362	338	91	-10	619	63
	2016	222	375	94	3	500	51
	2017	188	461	96	6	547	56
	2018	185	446	87	-2	546	56
Iceland	2015	..	3	..	..	3	9
	2016	..	3	..	..	3	9
	2017	..	2	..	..	2	6
	2018	..	3	..	..	3	9
Ireland	2015	46	108	14	0	140	30
	2016	41	122	17	..	146	31
	2017	49	132	24	1	156	33
	2018	58	140	31	-1	168	35
Italy	2015	1,299	2,262	236	-25	3,350	55
	2016	1,236	2,403	326	40	3,273	54
	2017	1,348	2,361	305	-44	3,448	57
	2018	1,228	2,264	227	-36	3,301	54
Kosovo	2015	..	35	..	..	35	20
	2016	..	35	..	..	35	20
	2017	..	33	..	..	33	18
	2018	..	31	..	..	31	17
Latvia	2015	..	210	121	-1	90	45
	2016	..	232	139	2	91	46
	2017	..	239	145	2	92	47
	2018	..	227	142	..	85	44

Table 17

Production, trade and supply of liquefied petroleum gases (LPG)

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Lithuania	2015	307	107	211	-1	204	70
	2016	345	79	213	0	211	73
	2017	363	82	242	-2	205	72
	2018	342	82	237	1	186	66
Luxembourg	2015	..	12	2	..	10	18
	2016	..	14	3	..	11	19
	2017	..	10	1	..	9	15
	2018	..	8	1	..	7	12
Malta	2015	..	23	..	..	23	53
	2016	..	17	..	1	16	37
	2017	..	24	..	-3	27	62
	2018	..	27	..	2	25	57
Montenegro	2015	..	20	..	2	18	29
	2016	..	19	..	2	17	27
	2017	..	19	..	2	17	27
	2018	..	20	..	2	18	29
Netherlands	2015	1,745	4,531	2,546	74	3,656	216
	2016	1,650	3,686	2,420	-107	3,023	178
	2017	1,557	3,217	2,056	-21	2,739	161
	2018	1,481	3,958	2,167	30	3,242	190
North Macedonia	2015	0	72	1	0	70	34
	2016	0	79	2	0	77	37
	2017	0	79	2	1	77	37
	2018	..	80	2	1	78	37
Norway	2015	6,860	142	5,926	118	958	184
	2016	6,852	363	6,347	-83	951	181
	2017	7,380	206	6,459	21	1,106	209
	2018	6,902	283	7,419	35	-269	-50
Poland	2015	575	2,035	216	-6	2,400	63
	2016	601	2,196	259	12	2,526	66
	2017	545	2,488	448	-2	2,587	68
	2018	605	2,562	545	3	2,619	69
Portugal	2015	175	741	72	-1	845	81
	2016	240	685	66	7	852	83
	2017	214	595	32	-5	782	76
	2018	205	547	63	15	674	66
Republic of Moldova	2015	..	74	0	-2	76	19
	2016	..	77	0	-1	78	19
	2017	..	72	0	0	72	18
	2018	..	72	0	1	71	18
Romania	2015	567	169	244	0	492	25
	2016	597	179	297	-1	480	24
	2017	617	233	312	5	533	27
	2018	624	226	324	-2	528	27
Russian Federation	2015	18,622	125	3,686	-46	15,107	104
	2016	22,259	112	4,877	-46	17,540	121
	2017	27,605	143	4,461	81	23,206	159
	2018	28,730	99	4,945	-5	23,890	164
Serbia	2015	176	146	59	0	263	37
	2016	166	183	66	-2	285	40
	2017	127	144	54	-6	224	32
	2018	83	120	51	4	148	21

Table 17

Production, trade and supply of liquefied petroleum gases (LPG)

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Slovakia	2015	181	43	63	2	159	29
	2016	176	49	69	-2	158	29
	2017	177	54	65	-1	167	31
	2018	180	67	82	1	164	30
Slovenia	2015	..	81	0	-1	82	40
	2016	..	80	0	0	80	39
	2017	..	88	..	2	86	41
	2018	..	94	..	1	93	45
Spain	2015	1,699	780	395	7	2,077	45
	2016	1,541	1,443	462	-40	2,562	55
	2017	1,401	1,296	563	-90	2,224	48
	2018	1,311	1,366	474	55	2,148	46
Sweden	2015	473	986	568	-58	949	97
	2016	481	1,324	685	-26	1,146	117
	2017	421	1,215	619	4	1,013	102
	2018	499	1,121	575	-8	1,053	106
Switzerland	2015	76	86	3	-2	161	19
	2016	104	71	8	0	167	20
	2017	107	70	14	..	163	19
	2018	133	63	21	..	175	20
Ukraine	2015	341	598	..	8	931	21
	2016	409	1,081	..	27	1,463	33
	2017	411	1,119	..	43	1,487	33
	2018	397	1,317	24	-17	1,707	39
United Kingdom	2015	3,300	683	853	-14	3,144	48
	2016	3,294	904	972	-8	3,234	49
	2017	3,326	1,037	1,050	18	3,295	49
	2018	2,922	1,272	872	-11	3,333	50
Oceania	2015	2,670	595	1,188	-40	2,117	53
	2016	2,399	577	1,131	81	1,764	44
	2017	2,252	615	1,222	-33	1,678	41
	2018	1,623	523	1,241	71	834	20
Australia	2015	2,468	491	1,149	-49	1,859	78
	2016	2,213	470	1,081	83	1,519	63
	2017	2,054	512	1,209	-37	1,394	57
	2018	1,422	425	1,234	71	542	22
Fiji	2015	..	27	0	..	26	30
	2016	..	29	0	..	29	33
	2017	..	30	1	..	29	33
	2018	..	*35	*3	..	*32	*36
French Polynesia	2015	..	13	..	*2	12	42
	2016	..	11	..	1	10	35
	2017	..	11	..	*1	10	35
	2018	..	11	..	..	11	39
Kiribati	2015	..	0	..	..	0	2
	2016	..	0	..	..	0	2
	2017	..	0	..	..	0	2
	2018	..	0	..	..	0	*2
Marshall Islands	2015	..	0	..	..	0	*3
	2016	..	0	..	..	0	*3
	2017	..	0	..	..	0	*3
	2018	..	0	..	..	0	*3

Table 17

Production, trade and supply of liquefied petroleum gases (LPG)

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Nauru	2015	..	0	..	..	0	*1
	2016	..	0	..	..	0	*1
	2017	..	0	..	..	0	*1
	2018	..	0	..	..	0	*1
New Caledonia	2015	..	31	..	0	31	116
	2016	..	32	..	-3	34	125
	2017	..	37	..	2	35	127
	2018	..	30	..	*-2	31	111
New Zealand	2015	197	8	39	0	166	36
	2016	173	24	50	0	147	32
	2017	181	14	12	..	183	39
	2018	184	12	4	..	192	40
Niue	2015	..	0	..	..	0	21
	2016	..	0	..	..	0	*22
	2017	..	0	..	..	0	*21
	2018	..	0	..	..	0	*22
Papua New Guinea	2015	5	17	..	8	14	2
	2016	13	1	..	..	14	2
	2017	17	*1	..	1	17	2
	2018	*17	..	..	*1	*16	*2
Samoa	2015	..	5	..	0	5	25
	2016	..	6	..	0	6	30
	2017	..	*6	..	0	*6	*31
	2018	..	*6	..	0	*6	*31
Tonga	2015	..	2	..	..	2	16
	2016	..	2	..	..	2	20
	2017	..	2	..	..	2	19
	2018	..	2	..	..	2	21
Tuvalu	2015	..	0	..	..	0	*12
	2016	..	0	..	..	0	*12
	2017	..	0	..	..	0	*11
	2018	..	0	..	..	0	*11
Vanuatu	2015	..	*1	..	..	*1	*5
	2016	..	*1	..	..	*1	*5
	2017	..	*1	..	..	*1	*5
	2018	..	*1	..	..	*1	*4
Wallis and Futuna Is.	2015	..	0	..	..	0	*22
	2016	..	0	..	..	0	*21
	2017	..	0	..	..	0	*23
	2018	..	0	..	..	0	*22

Production, trade and supply of motor gasoline

Thousand metric tons and kilograms per capita

Table Notes

Production includes output from refineries and plants, together with quantities from other sources which include any blended biogasoline.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description/ classification, and xvi to xvii for the descriptions of relevant flows.

Figure 48: Production of motor gasoline by region, 1990-2018

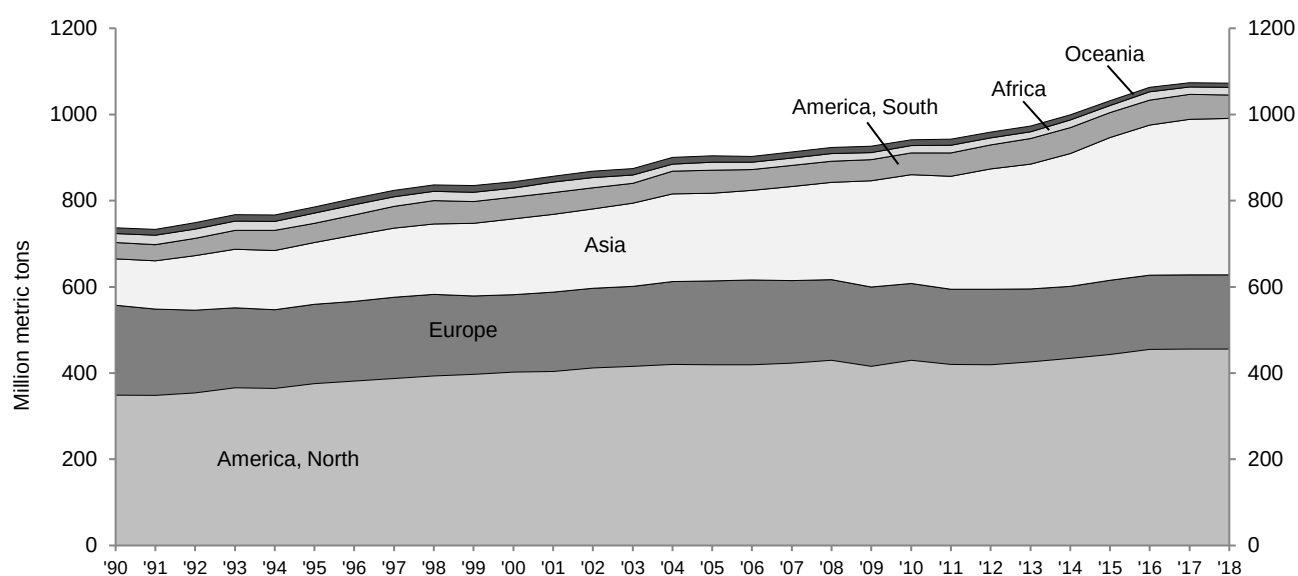


Figure 49: Major motor gasoline producing countries, 2018

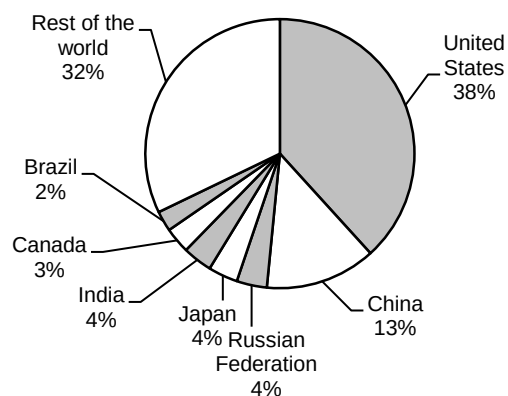


Figure 50: Major motor gasoline consuming countries, 2018

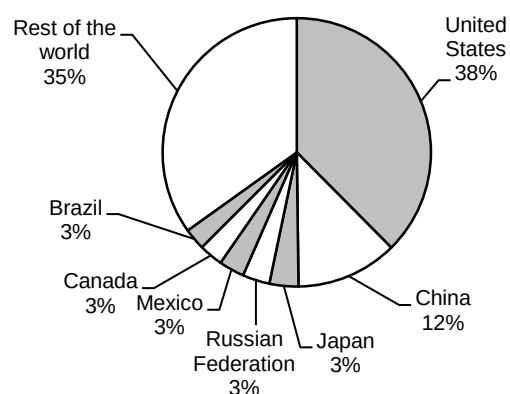


Table 18

Production, trade and supply of motor gasoline

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
World	2015	1,031,848	214,591	215,029	-1,826	1,033,235	140
	2016	1,062,715	228,320	228,306	2,990	1,059,739	142
	2017	1,073,667	229,901	233,722	-1,606	1,071,453	142
	2018	1,072,720	240,961	249,997	-1,796	1,065,480	140
Africa	2015	16,616	32,914	4,167	136	45,227	38
	2016	19,410	35,507	2,601	827	51,489	42
	2017	17,215	35,064	2,402	118	49,759	40
	2018	17,784	30,131	2,091	-2,220	48,043	38
Algeria	2015	2,798	1,601	..	21	4,378	110
	2016	2,613	1,608	..	-13	4,234	104
	2017	2,547	1,554	..	19	4,082	99
	2018	3,749	124	..	336	3,537	84
Angola	2015	16	1,232	7	..	1,241	45
	2016	33	1,030	7	..	1,057	37
	2017	35	958	8	..	985	33
	2018	5	1,794	8	..	1,792	58
Benin	2015	..	777	..	15	762	72
	2016	..	1,164	..	-2	1,166	107
	2017	..	1,191	..	-19	1,210	108
	2018	..	1,314	..	-2	1,316	115
Botswana	2015	..	307	..	..	307	145
	2016	..	409	..	..	409	190
	2017	..	440	..	..	440	200
	2018	..	460	..	..	460	204
Burkina Faso	2015	..	314	..	*67	248	14
	2016	..	257	..	*-22	278	15
	2017	..	320	..	*-45	365	19
	2018	..	465	..	*51	415	21
Burundi	2015	..	53	..	1	52	5
	2016	..	62	..	0	62	6
	2017	..	70	..	..	70	6
	2018	..	*91	..	..	*91	*8
Cabo Verde	2015	..	8	..	..	8	15
	2016	..	9	..	..	9	16
	2017	..	*9	..	..	*9	*17
	2018	..	*10	..	..	*10	*18
Cameroon	2015	295	237	38	-5	499	21
	2016	292	248	40	0	500	21
	2017	240	212	39	..	413	17
	2018	218	192	35	..	375	15
Central African Rep.	2015	..	*18	..	..	*18	*4
	2016	..	*20	..	..	*20	*4
	2017	..	*23	..	..	*23	*5
	2018	..	*24	..	..	*24	*5
Chad	2015	*264	..	*224	..	*40	*3
	2016	*231	..	*190	..	*41	*3
	2017	*231	..	*190	..	*41	*3
	2018	*235	..	*193	..	*42	*3
Comoros	2015	..	*12	..	..	*12	*15
	2016	..	*13	..	..	*13	*16
	2017	..	*19	..	..	*19	*24
	2018	..	*22	..	..	*22	*26

Table 18

Production, trade and supply of motor gasoline

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Congo	2015	68	102	..	..	170	35
	2016	56	134	..	..	190	38
	2017	64	88	..	..	152	30
	2018	64	88	..	..	152	29
Côte d'Ivoire	2015	641	..	288	-16	369	16
	2016	693	..	230	0	462	19
	2017	*888	..	*309	-17	*596	*24
	2018	771	..	289	..	482	19
Dem. Rep. of the Congo	2015	..	303	..	..	303	4
	2016	..	239	..	..	239	3
	2017	..	257	..	..	257	3
	2018	..	264	..	..	264	3
Djibouti	2015	..	12	..	..	12	13
	2016	..	13	..	..	13	14
	2017	..	14	..	..	14	15
	2018	..	*14	..	..	*14	*14
Egypt	2015	4,487	2,554	153	..	6,888	75
	2016	4,536	2,933	196	..	7,273	77
	2017	4,453	2,765	128	..	7,090	74
	2018	4,827	2,725	299	..	7,253	74
Equatorial Guinea	2015	..	*59	..	..	*59	*50
	2016	..	*62	..	..	*62	*51
	2017	..	*65	..	..	*65	*52
	2018	..	*67	..	..	*67	*51
Eritrea	2015	..	10	..	..	10	3
	2016	..	10	..	..	10	3
	2017	..	10	..	..	10	3
	2018	..	10	..	..	10	3
Eswatini	2015	..	107	..	..	107	97
	2016	..	115	..	..	115	103
	2017	..	123	..	..	123	109
	2018	..	128	..	..	128	113
Ethiopia	2015	..	308	..	0	308	3
	2016	..	367	..	0	367	4
	2017	..	443	..	..	443	4
	2018	..	473	..	..	473	4
Gabon	2015	72	8	..	..	80	41
	2016	76	6	..	..	82	41
	2017	32	44	..	..	76	37
	2018	32	44	..	..	76	36
Gambia	2015	..	*25	..	..	*25	*12
	2016	..	*25	..	..	*25	*12
	2017	..	*25	..	..	*25	*11
	2018	..	*26	..	..	*26	*11
Ghana	2015	32	1,182	10	0	1,204	43
	2016	244	1,236	272	0	1,208	42
	2017	7	1,304	184	42	1,084	37
	2018	102	1,326	67	0	1,360	46
Guinea	2015	..	281	..	..	281	25
	2016	..	306	..	..	306	26
	2017	..	362	..	..	362	30
	2018	..	279	..	..	279	22

Table 18

Production, trade and supply of motor gasoline

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Guinea-Bissau	2015	..	*2	..	..	*2	*1
	2016	..	*2	..	..	*2	*1
	2017	..	*2	..	..	*2	*1
	2018	..	*2	..	..	*2	*1
Kenya	2015	0	3,537	2,441	..	1,096	23
	2016	0	1,810	537	..	1,273	26
	2017	0	1,701	553	..	1,148	23
	2018	..	1,239	..	..	1,239	24
Lesotho	2015	..	87	..	..	87	42
	2016	..	94	..	..	94	45
	2017	..	99	..	..	99	47
	2018	..	103	..	..	103	49
Liberia	2015	..	149	..	..	149	33
	2016	..	*148	..	..	*148	*32
	2017	..	*130	..	..	*130	*28
	2018	..	*111	..	..	*111	*23
Libya	2015	497	3,235	..	..	3,732	581
	2016	399	3,556	..	..	3,955	609
	2017	470	3,484	..	..	3,954	601
	2018	391	3,559	..	..	3,950	591
Madagascar	2015	..	103	..	8	95	4
	2016	..	107	..	*8	99	4
	2017	..	115	..	5	111	4
	2018	..	108	..	-11	118	5
Malawi	2015	..	99	..	..	99	6
	2016	..	123	..	..	123	7
	2017	..	137	..	..	137	8
	2018	..	155	..	..	155	9
Mali	2015	..	*130	*12	..	*118	*7
	2016	..	*132	10	..	*122	*7
	2017	..	*135	*10	..	*125	*7
	2018	..	*138	*10	..	*128	*7
Mauritania	2015	..	*35	..	..	*35	*9
	2016	..	*39	..	..	*39	*9
	2017	..	42	..	*6	36	8
	2018	..	51	..	*10	41	9
Mauritius	2015	..	155	..	4	151	120
	2016	..	169	..	3	165	131
	2017	..	172	..	-2	174	138
	2018	..	172	..	-5	177	140
Morocco	2015	186	437	0	20	603	17
	2016	0	649	1	-24	672	19
	2017	..	650	..	-41	691	19
	2018	..	670	..	-22	692	19
Mozambique	2015	..	294	..	0	294	11
	2016	..	502	..	*45	457	16
	2017	..	522	..	96	426	15
	2018	..	304	8	..	296	10
Namibia	2015	..	320	..	..	320	138
	2016	..	341	..	..	341	145
	2017	..	318	..	..	318	132
	2018	..	318	..	..	318	130

Table 18

Production, trade and supply of motor gasoline

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Niger	2015	174	23	71	0	125	6
	2016	184	0	90	0	94	5
	2017	228	0	*94	0	134	6
	2018	197	1	101	..	97	4
Nigeria	2015	261	10,366	..	..	10,627	59
	2016	931	13,557	..	851	13,637	73
	2017	675	12,461	..	73	13,063	68
	2018	368	8,028	..	-2,536	10,932	56
Rwanda	2015	..	88	..	..	88	8
	2016	..	96	..	..	96	8
	2017	..	96	..	..	96	8
	2018	..	98	..	..	98	8
Sao Tome and Principe	2015	..	*8	..	..	*8	*42
	2016	..	*9	..	..	*9	*43
	2017	..	*9	..	..	*9	*43
	2018	..	*9	..	..	*9	*44
Senegal	2015	101	81	25	-8	165	11
	2016	116	68	23	-1	162	11
	2017	97	94	2	..	189	12
	2018	93	134	..	..	227	14
Seychelles	2015	..	19	..	..	19	204
	2016	..	20	..	..	20	211
	2017	..	27	..	..	27	282
	2018	..	41	..	..	41	423
Sierra Leone	2015	..	*74	..	..	*74	*10
	2016	..	*76	..	..	*76	*10
	2017	..	*76	..	..	*76	*10
	2018	..	*69	..	..	*69	*9
Somalia	2015	..	*34	..	..	*34	*2
	2016	..	*34	..	..	*34	*2
	2017	..	*34	..	..	*34	*2
	2018	..	*34	..	..	*34	*2
South Africa	2015	5,583	1,383	803	..	6,163	111
	2016	7,693	1,033	858	..	7,868	140
	2017	5,983	1,565	764	..	6,784	119
	2018	5,668	1,624	979	..	6,313	109
South Sudan	2015	..	62	..	..	62	6
	2016	..	51	..	..	51	5
	2017	..	45	..	..	45	4
	2018	..	38	..	..	38	3
St. Helena and Depend.	2015	..	*1	..	..	*1	*102
	2016	..	1	..	..	1	117
	2017	..	*1	..	..	*1	*117
	2018	..	*1	..	..	*1	*116
Sudan	2015	1,054	..	96	..	958	25
	2016	1,196	..	147	..	1,050	26
	2017	1,063	267	122	..	1,209	30
	2018	925	349	103	..	1,171	28
Togo	2015	..	98	..	-4	102	14
	2016	..	121	..	-4	125	17
	2017	..	125	..	-4	129	17
	2018	..	155	..	-6	161	20

Table 18

Production, trade and supply of motor gasoline

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Tunisia	2015	..	560	..	33	527	47
	2016	22	516	..	-15	553	49
	2017	79	530	..	6	603	53
	2018	3	650	..	-35	688	59
Uganda	2015	..	558	..	..	558	15
	2016	..	601	..	..	601	15
	2017	..	662	..	..	662	16
	2018	..	689	..	..	689	16
United Rep. of Tanzania	2015	..	827	..	..	827	16
	2016	..	813	..	..	813	15
	2017	..	752	..	..	752	14
	2018	..	753	..	..	753	13
Zambia	2015	87	270	..	..	357	22
	2016	95	248	..	..	343	21
	2017	124	188	..	..	312	18
	2018	136	137	..	..	273	16
Zimbabwe	2015	..	372	..	..	372	27
	2016	..	328	..	..	328	23
	2017	..	328	..	..	328	23
	2018	..	454	..	..	454	31
America, North	2015	442,971	57,933	37,480	-1,823	465,246	819
	2016	455,018	63,757	44,388	819	473,568	827
	2017	455,918	61,955	46,452	85	471,337	816
	2018	455,695	67,172	49,654	981	472,233	811
Anguilla	2015	..	7	..	..	7	462
	2016	..	*7	..	..	*7	*457
	2017	..	*6	..	..	*6	*432
	2018	..	*6	..	..	*6	*434
Antigua and Barbuda	2015	..	*43	*3	..	*40	*427
	2016	..	*44	*3	..	*41	*434
	2017	..	*44	*3	..	*41	*430
	2018	..	*45	*3	..	*42	*436
Aruba	2015	..	*63	..	..	*63	*602
	2016	..	*63	..	..	*63	*598
	2017	..	*65	..	..	*65	*617
	2018	..	*66	..	..	*66	*620
Bahamas	2015	..	150	1	..	149	397
	2016	..	112	0	..	112	295
	2017	..	173	*1	..	172	451
	2018	..	322	..	..	322	834
Barbados	2015	..	94	..	5	89	311
	2016	..	95	..	5	90	316
	2017	..	90	..	-1	90	316
	2018	..	87	..	..	87	302
Belize	2015	..	83	..	..	83	231
	2016	..	76	..	..	76	206
	2017	..	75	..	..	75	199
	2018	..	78	..	..	78	203
Bermuda	2015	..	15	..	-9	24	376
	2016	..	22	..	0	22	350
	2017	..	18	..	0	18	289
	2018	..	21	..	0	21	342

Table 18

Production, trade and supply of motor gasoline

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Bonaire, St Eustatius, Saba	2015	..	*10	..	..	*10	*399
	2016	..	*10	..	..	*10	*400
	2017	..	*10	..	..	*10	*402
	2018	..	*10	..	..	*10	*405
British Virgin Islands	2015	..	*15	..	..	*15	*497
	2016	..	*15	..	..	*15	*494
	2017	..	*12	..	..	*12	*392
	2018	..	*11	..	..	*11	*369
Canada	2015	32,392	2,887	7,155	-261	28,385	788
	2016	33,983	3,785	7,301	-81	30,548	840
	2017	35,699	3,477	8,144	-19	31,051	845
	2018	33,343	4,011	6,588	78	30,688	828
Cayman Islands	2015	..	39	..	..	39	632
	2016	..	37	..	..	37	591
	2017	..	40	..	..	40	631
	2018	..	48	..	..	48	743
Costa Rica	2015	..	837	..	-21	858	177
	2016	..	926	..	21	905	185
	2017	..	1,005	..	10	995	201
	2018	..	925	..	-17	942	188
Cuba	2015	446	320	376	..	390	34
	2016	185	299	*246	..	238	21
	2017	139	169	*45	..	262	23
	2018	212	254	*212	..	254	22
Curaçao	2015	1,818	70	1,818	..	70	438
	2016	1,788	71	1,788	..	71	441
	2017	1,107	71	1,107	..	71	438
	2018	808	70	808	..	70	430
Dominica	2015	..	*10	..	0	*10	*145
	2016	..	*10	..	0	*11	*148
	2017	..	*10	..	0	*10	*141
	2018	..	*10	..	0	*10	*145
Dominican Republic	2015	158	806	..	-10	974	95
	2016	229	819	..	7	1,041	100
	2017	189	866	..	1	1,055	100
	2018	256	908	..	-20	1,184	111
El Salvador	2015	..	551	..	..	551	87
	2016	..	591	..	..	591	93
	2017	..	642	..	..	642	100
	2018	..	662	2	..	660	103
Greenland	2015	..	13	..	-1	14	247
	2016	..	15	..	-1	16	287
	2017	..	16	..	-1	16	288
	2018	..	16	..	*-1	17	293
Grenada	2015	..	26	..	0	26	237
	2016	..	24	..	0	24	217
	2017	..	25	..	0	25	224
	2018	..	26	..	-2	28	254
Guatemala	2015	..	1,303	132	-15	1,187	73
	2016	..	1,387	106	-17	1,297	78
	2017	..	1,605	51	27	1,527	90
	2018	..	1,629	33	-3	1,599	93

Table 18

Production, trade and supply of motor gasoline

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Haiti	2015	..	196	..	..	196	18
	2016	..	222	..	..	222	20
	2017	..	259	..	..	259	24
	2018	..	321	..	..	321	29
Honduras	2015	..	540	..	-66	606	66
	2016	..	601	..	1	600	65
	2017	..	643	..	12	631	67
	2018	..	689	11	10	668	70
Jamaica	2015	151	317	..	4	465	161
	2016	133	397	..	-6	536	184
	2017	143	379	..	7	515	176
	2018	119	378	..	..	497	169
Mexico	2015	15,785	17,353	..	-514	33,652	276
	2016	13,563	20,575	..	280	33,858	275
	2017	10,715	21,695	..	10	32,400	260
	2018	8,654	24,129	..	157	32,626	259
Montserrat	2015	..	6	..	..	6	1,188
	2016	..	3	..	..	3	583
	2017	..	3	..	..	3	581
	2018	..	*3	..	..	*3	*601
Nicaragua	2015	100	196	..	-3	299	48
	2016	91	240	..	1	330	52
	2017	101	252	..	0	353	55
	2018	96	227	..	..	323	50
Panama	2015	..	768	..	-69	836	211
	2016	..	874	..	-26	900	223
	2017	..	912	..	-47	959	234
	2018	..	903	..	-30	933	223
Sint Maarten (Dutch part)	2015	..	*14	..	..	*14	*350
	2016	..	*14	..	..	*14	*345
	2017	..	*14	..	..	*14	*333
	2018	..	*14	..	..	*14	*322
St. Kitts-Nevis	2015	..	*17	..	..	*17	*334
	2016	..	*18	..	..	*18	*341
	2017	..	*18	..	..	*18	*342
	2018	..	*18	..	..	*18	*343
St. Lucia	2015	..	*43	..	..	*43	*240
	2016	..	*42	..	..	*42	*233
	2017	..	*43	..	..	*43	*240
	2018	..	*42	..	..	*42	*233
St. Pierre-Miquelon	2015	..	*4	..	..	*4	*634
	2016	..	*4	..	..	*4	*657
	2017	..	*4	..	..	*4	*663
	2018	..	*3	..	..	*3	*582
St. Vincent-Grenadines	2015	..	22	..	..	22	198
	2016	..	26	..	..	26	241
	2017	..	26	..	..	26	237
	2018	..	30	..	..	30	271
Trinidad and Tobago	2015	2,111	0	1,560	-7	558	407
	2016	2,453	0	1,972	-11	492	357
	2017	2,007	0	1,496	-7	518	374
	2018	1,823	..	1,395	20	408	294

Table 18

Production, trade and supply of motor gasoline

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
United States	2015	390,010	31,117	26,435	-855	395,547	1,233
	2016	402,592	32,336	32,972	646	401,310	1,242
	2017	405,819	29,288	35,605	91	399,411	1,229
	2018	410,384	31,210	40,602	788	400,204	1,224
America, South	2015	57,889	8,598	3,850	-172	62,809	152
	2016	57,784	10,490	3,565	-6	64,715	156
	2017	57,846	12,140	2,729	-193	67,450	161
	2018	54,317	10,162	3,953	-221	60,748	144
Argentina	2015	6,802	11	..	-37	6,850	159
	2016	6,946	183	..	61	7,068	162
	2017	7,451	308	..	-34	7,793	177
	2018	7,457	457	*788	-47	7,173	162
Bolivia (Plur. State of)	2015	823	275	..	-66	1,164	107
	2016	1,055	150	..	-75	1,280	116
	2017	1,035	242	..	-80	1,357	121
	2018	993	322	..	-65	1,380	122
Brazil	2015	28,402	2,172	451	0	30,123	147
	2016	28,788	2,821	534	33	31,042	151
	2017	29,411	3,323	349	49	32,336	156
	2018	26,295	2,393	1,029	-142	27,801	133
Chile	2015	2,823	488	70	30	3,211	179
	2016	2,974	455	22	-2	3,409	187
	2017	3,055	526	40	44	3,497	189
	2018	2,964	549	28	2	3,483	186
Colombia	2015	3,193	1,397	0	-9	4,599	97
	2016	3,038	2,255	139	-3	5,157	107
	2017	3,281	2,155	46	4	5,386	110
	2018	4,104	1,096	61	-37	5,176	104
Ecuador	2015	995	2,281	21	-72	3,326	205
	2016	1,599	1,877	61	12	3,403	206
	2017	1,535	1,923	0	-31	3,489	208
	2018	1,513	1,853	..	13	3,352	196
Falkland Is. (Malvinas)	2015	..	0	..	..	0	59
	2016	..	0	..	..	0	67
	2017	..	0	..	..	0	67
	2018	..	0	..	..	0	60
Guyana	2015	..	149	..	2	147	191
	2016	..	153	..	3	150	195
	2017	..	140	..	-2	141	182
	2018	..	155	..	-4	159	204
Paraguay	2015	174	459	..	-14	647	97
	2016	216	622	..	6	832	123
	2017	223	686	..	-64	973	142
	2018	244	814	..	-14	1,071	154
Peru	2015	3,174	581	1,916	2	1,837	60
	2016	3,420	800	2,142	-40	2,118	68
	2017	3,463	892	2,289	-66	2,132	68
	2018	3,349	967	2,042	58	2,216	69
Suriname	2015	2	152	..	..	154	276
	2016	35	136	3	..	168	297
	2017	64	137	5	..	196	343
	2018	66	136	5	..	198	343

Table 18

Production, trade and supply of motor gasoline

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Uruguay	2015	519	54	0	-9	581	170
	2016	598	14	0	-1	612	179
	2017	203	430	0	-12	645	188
	2018	588	11	0	14	586	170
Venezuela (Bolivar. Rep.)	2015	10,982	580	1,392	0	10,170	338
	2016	9,116	1,025	664	0	9,477	317
	2017	8,125	1,378	..	0	9,503	323
	2018	6,745	1,408	..	..	8,153	282
Asia	2015	330,946	77,234	77,535	-10	330,655	75
	2016	348,083	79,003	84,514	412	342,160	76
	2017	361,219	81,919	87,326	-1,210	357,022	79
	2018	362,976	98,464	100,452	229	360,758	79
Afghanistan	2015	..	872	..	..	872	25
	2016	..	580	..	..	580	16
	2017	..	569	..	..	569	16
	2018	..	909	..	..	909	24
Armenia	2015	..	130	..	..	130	45
	2016	..	141	..	..	141	48
	2017	..	142	..	..	142	48
	2018	..	139	..	..	139	47
Azerbaijan	2015	1,224	46	5	-50	1,315	137
	2016	1,153	81	4	-35	1,265	130
	2017	1,215	130	7	31	1,307	133
	2018	1,186	131	..	19	1,298	130
Bahrain	2015	821	..	4	39	778	567
	2016	784	..	4	-1	781	548
	2017	744	..	0	-53	797	533
	2018	741	..	0	-102	843	537
Bangladesh	2015	122	34	..	..	156	1
	2016	133	151	..	..	284	2
	2017	125	33	..	..	158	1
	2018	195	33	..	..	227	1
Bhutan	2015	..	25	..	..	25	34
	2016	..	27	..	..	27	36
	2017	..	29	..	..	29	39
	2018	..	35	..	..	35	46
Brunei Darussalam	2015	156	119	..	-2	277	668
	2016	92	181	..	-5	278	662
	2017	73	213	..	8	278	655
	2018	133	141	..	-5	279	650
Cambodia	2015	..	481	..	..	481	31
	2016	..	491	..	..	491	31
	2017	..	560	..	..	560	35
	2018	..	613	..	..	613	38
China	2015	120,251	170	5,893	1,463	113,066	80
	2016	128,465	208	9,693	1,542	117,438	83
	2017	133,934	16	10,514	260	123,176	87
	2018	142,647	445	12,879	-140	130,353	91
China, Hong Kong SAR	2015	..	512	5	53	454	63
	2016	..	506	8	30	467	64
	2017	..	475	11	1	463	63
	2018	..	482	12	11	459	62

Table 18

Production, trade and supply of motor gasoline

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
China, Macao SAR	2015	..	76	..	1	75	125
	2016	..	77	..	2	75	122
	2017	..	79	..	1	78	125
	2018	..	86	..	1	85	135
Cyprus	2015	..	362	..	14	348	300
	2016	..	356	..	4	352	301
	2017	..	350	..	0	350	297
	2018	..	339	..	-5	344	289
Georgia	2015	0	441	1	18	423	105
	2016	7	576	0	-14	598	149
	2017	2	534	1	-2	537	134
	2018	1	548	1	8	540	135
India	2015	35,321	993	15,893	-1,346	21,767	17
	2016	36,593	476	15,417	0	21,652	16
	2017	37,784	174	14,035	..	23,923	18
	2018	38,039	670	12,885	..	25,824	19
Indonesia	2015	9,916	14,714	2	..	24,628	95
	2016	12,089	12,500	52	..	24,537	94
	2017	11,641	13,704	68	..	25,277	96
	2018	11,160	14,093	76	..	25,177	94
Iran (Islamic Rep. of)	2015	16,338	2,699	..	..	19,037	243
	2016	16,798	2,270	..	..	19,069	240
	2017	22,130	3,271	..	..	25,401	315
	2018	17,743	4,516	..	..	22,259	272
Iraq	2015	1,853	1,394	..	-807	4,054	114
	2016	2,117	2,145	..	0	4,262	116
	2017	2,483	2,396	..	..	4,879	130
	2018	2,832	2,526	..	..	5,358	139
Israel	2015	3,012	491	564	97	2,842	356
	2016	2,945	674	558	-33	3,094	382
	2017	2,766	645	487	10	2,914	353
	2018	3,055	843	827	..	3,071	366
Japan	2015	40,808	1,195	2,926	-8	39,085	305
	2016	40,099	622	2,285	18	38,418	301
	2017	39,795	902	2,771	-77	38,003	298
	2018	38,117	1,576	2,446	21	37,226	293
Jordan	2015	653	670	..	..	1,323	143
	2016	583	832	..	*-31	1,446	151
	2017	557	923	..	48	1,432	146
	2018	483	964	..	*37	1,410	141
Kazakhstan	2015	2,864	1,362	0	13	4,213	240
	2016	2,938	1,134	1	-397	4,469	251
	2017	3,055	1,073	2	-208	4,334	240
	2018	3,955	595	20	23	4,507	246
Korea, Dem.Ppl's.Rep.	2015	178	15	..	..	193	8
	2016	178	17	..	..	195	8
	2017	178	14	..	..	192	8
	2018	178	14	..	..	192	8
Korea, Republic of	2015	17,729	45	9,296	-169	8,647	170
	2016	17,266	161	8,911	61	8,455	166
	2017	18,343	130	9,611	12	8,850	173
	2018	19,601	20	10,291	216	9,114	178

Table 18

Production, trade and supply of motor gasoline

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Kuwait	2015	2,041	..	473	-1,156	2,724	710
	2016	2,405	..	609	-1,577	3,373	852
	2017	2,113	..	522	-1,614	3,205	790
	2018	2,097	..	677	-1,564	2,984	721
Kyrgyzstan	2015	115	625	32	18	690	116
	2016	171	719	7	-42	925	152
	2017	235	468	7	5	691	112
	2018	219	632	28	31	792	126
Lao People's Dem. Rep.	2015	..	173	..	..	173	26
	2016	..	*170	..	..	*170	*25
	2017	..	*167	..	..	*167	*24
	2018	..	*170	..	..	*170	*24
Lebanon	2015	..	1,905	..	..	1,905	292
	2016	..	2,026	..	..	2,026	302
	2017	..	2,097	..	..	2,097	307
	2018	..	1,983	..	..	1,983	289
Malaysia	2015	4,788	7,216	382	-75	11,697	386
	2016	4,801	8,139	436	-261	12,765	416
	2017	7,855	4,901	268	-47	12,535	403
	2018	5,258	10,130	2,941	9	12,438	395
Maldives	2015	..	39	..	..	39	85
	2016	..	48	..	..	48	101
	2017	..	58	..	..	58	116
	2018	..	69	..	..	69	133
Mongolia	2015	..	434	..	..	434	145
	2016	..	385	..	..	385	126
	2017	..	411	..	..	411	132
	2018	..	435	..	..	435	137
Myanmar	2015	234	894	..	209	919	17
	2016	143	1,276	..	12	1,407	27
	2017	145	1,091	..	-141	1,377	26
	2018	56	1,821	..	..	1,877	35
Nepal	2015	..	170	..	..	170	6
	2016	..	289	..	..	289	11
	2017	..	346	..	..	346	13
	2018	..	402	..	..	402	14
Oman	2015	3,061	0	50	60	2,951	692
	2016	3,018	0	0	163	2,855	637
	2017	2,990	57	167	4	2,876	616
	2018	2,380	265	0	*-159	2,804	581
Other Asia	2015	7,843	149	4,113	198	3,681	156
	2016	9,247	124	4,497	146	4,728	200
	2017	8,463	126	4,201	-244	4,632	196
	2018	8,537	99	3,962	64	4,610	194
Pakistan	2015	1,590	3,926	0	0	5,516	28
	2016	1,839	5,156	0	0	6,995	34
	2017	2,212	5,235	..	..	7,447	36
	2018	2,383	5,591	..	..	7,974	38
Philippines	2015	1,983	1,757	195	490	3,055	30
	2016	2,197	1,822	229	-33	3,824	37
	2017	2,153	1,991	85	80	3,979	38
	2018	2,435	2,205	230	169	4,240	40

Table 18

Production, trade and supply of motor gasoline

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Qatar	2015	1,583	..	162	0	1,421	554
	2016	1,963	..	296	..	1,667	628
	2017	1,937	..	111	..	1,826	670
	2018	1,604	147	129	..	1,622	583
Saudi Arabia	2015	21,165	9,468	7,175	108	23,350	736
	2016	24,065	8,600	9,054	322	23,289	718
	2017	23,949	8,488	10,314	-170	22,293	673
	2018	23,418	14,114	17,738	..	19,794	587
Singapore	2015	10,046	14,757	23,938	206	659	118
	2016	9,096	15,964	24,650	*-200	610	108
	2017	9,108	16,683	25,567	*-400	624	109
	2018	8,491	16,641	27,198	192	-2,258	-392
Sri Lanka	2015	154	899	..	217	836	40
	2016	166	957	..	-341	1,463	70
	2017	165	1,097	..	-227	1,489	70
	2018	165	1,128	..	7	1,286	61
State of Palestine	2015	..	216	..	0	216	48
	2016	..	236	..	0	236	51
	2017	..	233	..	..	233	49
	2018	..	226	..	0	226	47
Syrian Arab Republic	2015	539	370	..	..	909	51
	2016	581	395	..	..	976	56
	2017	645	442	..	..	1,087	64
	2018	604	415	..	..	1,019	60
Tajikistan	2015	0	215	..	..	215	25
	2016	1	194	..	..	195	22
	2017	1	177	..	..	177	20
	2018	1	173	..	..	174	19
Thailand	2015	7,186	571	1,109	462	6,186	90
	2016	7,805	1,131	1,022	1,060	6,854	99
	2017	8,099	1,287	1,180	1,172	7,034	102
	2018	8,417	1,143	1,246	1,101	7,213	104
Timor-Leste	2015	..	*23	..	..	*23	*19
	2016	..	*22	..	..	*22	*18
	2017	..	*22	..	..	*22	*18
	2018	..	*23	..	..	*23	*18
Turkey	2015	5,180	..	3,119	-8	2,069	26
	2016	5,175	..	2,890	45	2,240	28
	2017	5,444	..	3,172	-32	2,304	28
	2018	4,767	..	2,442	57	2,268	28
Turkmenistan	2015	2,610	..	1,105	..	1,505	270
	2016	2,610	..	1,105	..	1,505	266
	2017	2,610	..	1,105	..	1,505	261
	2018	2,610	..	1,105	..	1,505	257
United Arab Emirates	2015	4,931	3,187	851	..	7,267	785
	2016	5,863	4,004	2,571	..	7,296	779
	2017	3,819	6,390	2,862	373	6,974	735
	2018	3,578	8,308	3,110	..	8,776	911
Uzbekistan	2015	1,064	0	0	5	1,059	34
	2016	1,134	0	0	3	1,131	36
	2017	1,112	0	6	35	1,071	34
	2018	1,147	0	0	103	1,044	32

Table 18

Production, trade and supply of motor gasoline

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Viet Nam	2015	3,511	2,681	243	-59	6,008	65
	2016	3,487	2,488	215	-26	5,786	62
	2017	3,265	3,180	252	-34	6,227	66
	2018	4,668	2,036	208	135	6,361	67
Yemen	2015	76	712	..	..	788	30
	2016	76	653	..	..	729	27
	2017	76	610	..	..	686	25
	2018	76	591	..	..	667	23
Europe	2015	172,386	32,406	91,883	-85	112,993	152
	2016	172,174	33,307	93,158	800	111,522	149
	2017	171,856	32,294	94,585	-196	109,761	147
	2018	171,986	28,932	93,690	-608	107,836	144
Albania	2015	..	159	..	41	118	41
	2016	..	133	..	26	107	37
	2017	..	148	..	42	106	37
	2018	..	133	..	27	105	36
Andorra	2015	..	19	..	..	19	238
	2016	..	19	..	..	19	246
	2017	..	19	..	..	19	253
	2018	..	21	..	..	21	271
Austria	2015	1,812	821	973	-29	1,689	195
	2016	1,759	800	873	36	1,650	189
	2017	1,781	749	864	13	1,653	187
	2018	2,029	710	1,059	-48	1,728	194
Belarus	2015	3,925	35	2,841	7	1,112	118
	2016	3,573	206	2,621	14	1,144	121
	2017	3,481	108	2,411	11	1,167	123
	2018	3,356	20	2,123	-7	1,259	133
Belgium	2015	4,965	1,252	5,132	-20	1,105	98
	2016	4,860	1,440	5,136	-15	1,179	104
	2017	4,748	890	4,687	-37	988	87
	2018	4,173	1,541	4,269	99	1,346	117
Bosnia and Herzegovina	2015	130	124	53	8	193	56
	2016	140	132	78	-7	201	59
	2017	142	118	60	10	190	57
	2018	116	118	59	-7	182	55
Bulgaria	2015	1,788	234	1,559	-33	496	69
	2016	1,785	215	1,524	7	469	66
	2017	1,848	269	1,646	-9	480	68
	2018	1,508	216	1,262	-6	468	66
Croatia	2015	843	218	519	10	532	126
	2016	864	194	517	7	534	127
	2017	1,005	160	643	9	513	123
	2018	895	134	479	51	499	120
Czechia	2015	1,653	518	593	3	1,575	149
	2016	1,213	805	403	8	1,607	151
	2017	1,638	583	624	-4	1,601	150
	2018	1,519	716	567	64	1,604	150
Denmark	2015	2,404	668	1,336	24	1,712	301
	2016	2,167	494	1,087	-20	1,594	279
	2017	2,309	390	1,222	-25	1,502	262
	2018	2,256	428	1,185	-32	1,531	266

Table 18

Production, trade and supply of motor gasoline

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Estonia	2015	..	402	142	25	235	179
	2016	..	482	256	-25	251	191
	2017	..	455	167	26	262	199
	2018	..	513	266	-22	269	203
Faeroe Islands	2015	..	*11	..	..	*11	*220
	2016	..	*11	..	..	*11	*221
	2017	..	*11	..	..	*11	*225
	2018	..	*11	..	..	*11	*225
Finland	2015	3,678	499	2,384	8	1,785	326
	2016	4,210	594	2,991	-27	1,840	335
	2017	4,531	606	3,123	12	2,002	363
	2018	4,570	579	3,005	21	2,123	384
France	2015	11,885	699	4,109	-83	8,558	128
	2016	11,913	1,220	4,607	110	8,416	126
	2017	12,085	1,467	4,349	13	9,190	137
	2018	11,264	1,366	3,172	-58	9,516	142
Germany	2015	20,127	1,919	4,443	42	17,561	215
	2016	20,871	1,513	5,051	89	17,244	210
	2017	20,975	2,158	5,719	-210	17,624	213
	2018	21,923	2,440	5,052	-16	19,327	233
Gibraltar	2015	..	34	..	..	34	1,008
	2016	..	37	..	..	37	1,097
	2017	..	40	..	..	40	1,198
	2018	..	44	..	..	44	1,299
Greece	2015	4,611	516	2,787	-79	2,419	227
	2016	5,169	560	3,398	197	2,134	201
	2017	5,291	321	3,935	40	1,637	155
	2018	5,351	352	4,499	-136	1,340	127
Hungary	2015	1,202	466	294	35	1,339	137
	2016	1,154	606	331	29	1,400	144
	2017	1,080	598	318	-14	1,374	141
	2018	1,187	508	258	9	1,428	147
Iceland	2015	2	139	..	7	134	406
	2016	5	136	..	-1	142	427
	2017	5	138	..	-1	144	431
	2018	7	134	..	5	136	404
Ireland	2015	640	853	392	5	1,096	236
	2016	589	810	350	9	1,040	221
	2017	586	915	486	88	927	195
	2018	628	542	342	9	819	170
Italy	2015	15,820	502	8,532	-86	7,876	130
	2016	15,144	352	8,131	-138	7,503	124
	2017	15,717	140	8,445	-9	7,421	122
	2018	15,639	353	8,483	-142	7,651	126
Kosovo	2015	..	66	..	..	66	37
	2016	..	69	..	..	69	39
	2017	..	63	..	..	63	35
	2018	..	59	..	..	59	33
Latvia	2015	12	237	45	-4	208	104
	2016	13	234	41	4	202	102
	2017	12	213	37	-4	192	98
	2018	13	201	26	..	188	97

Table 18

Production, trade and supply of motor gasoline

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Lithuania	2015	2,425	66	2,298	29	164	56
	2016	2,627	67	2,532	-2	164	57
	2017	2,752	65	2,672	-21	166	58
	2018	2,576	47	2,438	-9	194	69
Luxembourg	2015	..	286	..	-10	296	522
	2016	..	295	..	4	291	502
	2017	..	303	..	1	303	511
	2018	..	332	..	-3	335	555
Malta	2015	..	77	..	1	76	175
	2016	..	70	..	-7	77	177
	2017	..	84	..	6	78	178
	2018	..	79	..	1	78	178
Montenegro	2015	..	41	10	-5	36	57
	2016	..	43	8	-2	37	59
	2017	..	41	7	-3	37	59
	2018	..	39	7	-5	37	59
Netherlands	2015	5,768	9,917	20,828	87	-5,230	-309
	2016	4,105	9,924	19,600	30	-5,601	-330
	2017	3,287	10,787	20,282	-64	-6,144	-361
	2018	4,521	7,636	23,200	-257	-10,786	-632
North Macedonia	2015	0	105	2	0	103	50
	2016	0	107	3	0	104	50
	2017	0	108	4	1	103	49
	2018	..	104	4	1	99	47
Norway	2015	4,020	301	3,149	17	1,155	222
	2016	3,815	383	3,339	-7	866	165
	2017	4,660	351	3,614	-32	1,429	270
	2018	4,477	390	3,885	4	978	183
Poland	2015	4,177	363	762	-22	3,800	100
	2016	4,207	345	509	20	4,023	106
	2017	4,163	481	221	35	4,388	116
	2018	4,451	468	367	6	4,546	120
Portugal	2015	2,721	137	1,786	1	1,071	103
	2016	2,653	167	1,742	18	1,060	103
	2017	2,754	124	1,885	-48	1,041	101
	2018	2,508	149	1,644	2	1,011	99
Republic of Moldova	2015	..	164	..	1	163	40
	2016	..	166	..	-1	167	41
	2017	..	164	..	0	164	40
	2018	..	169	..	-1	170	42
Romania	2015	2,982	106	1,785	-26	1,329	67
	2016	3,405	127	2,124	54	1,354	68
	2017	3,285	109	1,930	61	1,403	71
	2018	3,381	104	2,165	-58	1,378	71
Russian Federation	2015	39,235	808	4,746	-83	35,380	244
	2016	40,004	171	5,216	232	34,727	239
	2017	38,027	32	4,415	182	33,462	230
	2018	39,053	31	4,210	26	34,849	239
Serbia	2015	484	39	121	0	402	57
	2016	482	51	125	-6	414	59
	2017	499	78	143	14	420	60
	2018	516	68	150	11	423	60

Table 18

Production, trade and supply of motor gasoline

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Slovakia	2015	1,536	237	1,174	0	599	110
	2016	1,535	258	1,157	23	613	113
	2017	1,456	263	1,136	-37	620	114
	2018	1,420	207	1,025	23	579	106
Slovenia	2015	..	551	116	4	431	208
	2016	..	603	168	11	424	204
	2017	..	643	220	10	413	199
	2018	..	610	198	-10	422	203
Spain	2015	9,403	103	4,741	12	4,753	102
	2016	9,765	160	4,442	158	5,325	114
	2017	9,318	417	4,514	-108	5,329	114
	2018	9,451	441	4,347	-129	5,674	122
Sweden	2015	5,230	1,697	3,860	12	3,055	313
	2016	5,116	1,877	3,647	-16	3,362	342
	2017	4,909	1,504	3,830	-161	2,744	277
	2018	5,278	785	3,650	-21	2,434	244
Switzerland	2015	715	1,645	4	-114	2,470	296
	2016	720	1,724	18	-19	2,445	290
	2017	689	1,639	2	-37	2,363	278
	2018	688	1,586	2	-72	2,344	274
Ukraine	2015	659	1,468	29	-16	2,114	47
	2016	*365	*1,806	0	0	*2,171	*49
	2017	802	1,268	7	-1	2,064	46
	2018	56	1,138	..	23	1,171	26
United Kingdom	2015	17,534	3,904	10,338	146	10,954	166
	2016	17,946	3,901	11,133	7	10,707	161
	2017	18,021	3,273	10,967	56	10,271	154
	2018	17,176	3,411	10,292	49	10,246	153
Oceania	2015	11,040	5,505	112	129	16,304	409
	2016	10,246	6,256	80	138	16,283	403
	2017	9,613	6,529	228	-211	16,125	393
	2018	9,961	6,101	156	43	15,862	382
Australia	2015	9,592	4,046	87	120	13,431	561
	2016	8,757	4,854	54	124	13,433	554
	2017	8,281	5,081	162	-131	13,331	542
	2018	8,587	4,662	112	64	13,073	525
Cook Islands	2015	..	*6	..	..	*6	*319
	2016	..	*6	..	..	*6	*331
	2017	..	*7	..	..	*7	*371
	2018	..	*7	..	..	*7	*371
Fiji	2015	..	105	25	..	80	92
	2016	..	114	26	..	88	101
	2017	..	124	24	..	101	115
	2018	..	*134	*22	..	*112	*126
French Polynesia	2015	..	51	..	*3	47	174
	2016	..	54	..	*7	47	170
	2017	..	54	..	*7	46	168
	2018	..	55	..	*1	53	193
Kiribati	2015	..	5	..	..	5	45
	2016	..	5	..	..	5	46
	2017	..	7	..	..	7	61
	2018	..	*7	..	..	*7	*61

Table 18

Production, trade and supply of motor gasoline

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Marshall Islands	2015	..	*12	..	..	*12	*200
	2016	..	*12	..	..	*12	*199
	2017	..	*12	..	..	*12	*202
	2018	..	*12	..	..	*12	*204
Micronesia (Fed. States of)	2015	..	18	..	..	18	164
	2016	..	*18	..	..	*18	*162
	2017	..	*18	..	..	*18	*161
	2018	..	*18	..	..	*18	*162
Nauru	2015	..	*3	..	..	*3	*270
	2016	..	3	..	..	3	306
	2017	..	3	..	..	3	284
	2018	..	*3	..	..	*3	*273
New Caledonia	2015	..	76	..	3	73	269
	2016	..	76	..	-5	81	295
	2017	..	75	..	4	72	259
	2018	..	71	..	*-1	73	259
New Zealand	2015	1,448	1,051	..	-2	2,501	542
	2016	1,489	982	..	8	2,463	529
	2017	1,332	1,002	42	-77	2,369	504
	2018	1,374	984	22	-4	2,340	493
Niue	2015	..	1	..	..	1	447
	2016	..	*1	..	..	*1	*453
	2017	..	*1	..	..	*1	*440
	2018	..	*1	..	..	*1	*453
Palau	2015	..	6	..	..	6	348
	2016	..	6	..	..	6	337
	2017	..	*7	..	..	*7	*393
	2018	..	*8	..	..	*8	*447
Papua New Guinea	2015	0	57	..	1	56	7
	2016	0	53	..	2	51	6
	2017	0	64	..	-16	80	9
	2018	..	*64	..	*-16	*80	*9
Samoa	2015	..	29	0	4	25	128
	2016	..	27	0	3	24	126
	2017	..	30	0	*3	27	138
	2018	..	28	0	0	28	144
Solomon Islands	2015	..	22	..	..	22	36
	2016	..	*21	..	..	*21	*34
	2017	..	*21	..	..	*21	*33
	2018	..	*21	..	..	*21	*33
Tonga	2015	..	12	..	..	12	117
	2016	..	15	..	..	15	148
	2017	..	17	..	..	17	165
	2018	..	17	..	..	17	166
Tuvalu	2015	..	0	..	..	0	*32
	2016	..	0	..	..	0	*30
	2017	..	0	..	..	0	*30
	2018	..	0	..	..	0	*30
Vanuatu	2015	..	7	..	..	7	25
	2016	..	8	..	..	8	28
	2017	..	6	..	..	6	20
	2018	..	8	..	..	8	26

Production, trade and supply of motor gasoline

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Wallis and Futuna Is.	2015	..	*1	..	..	*1	*99
	2016	..	*1	..	..	*1	*101
	2017	..	*1	..	..	*1	*103
	2018	..	*1	..	..	*1	*103

Production, trade and supply of other kerosene

Thousand metric tons and kilograms per capita

Table Notes

Production includes output from refineries and plants.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description/ classification, and xvi to xvii for the descriptions of relevant flows.

Figure 51: Production of other kerosene by region, 1990-2018

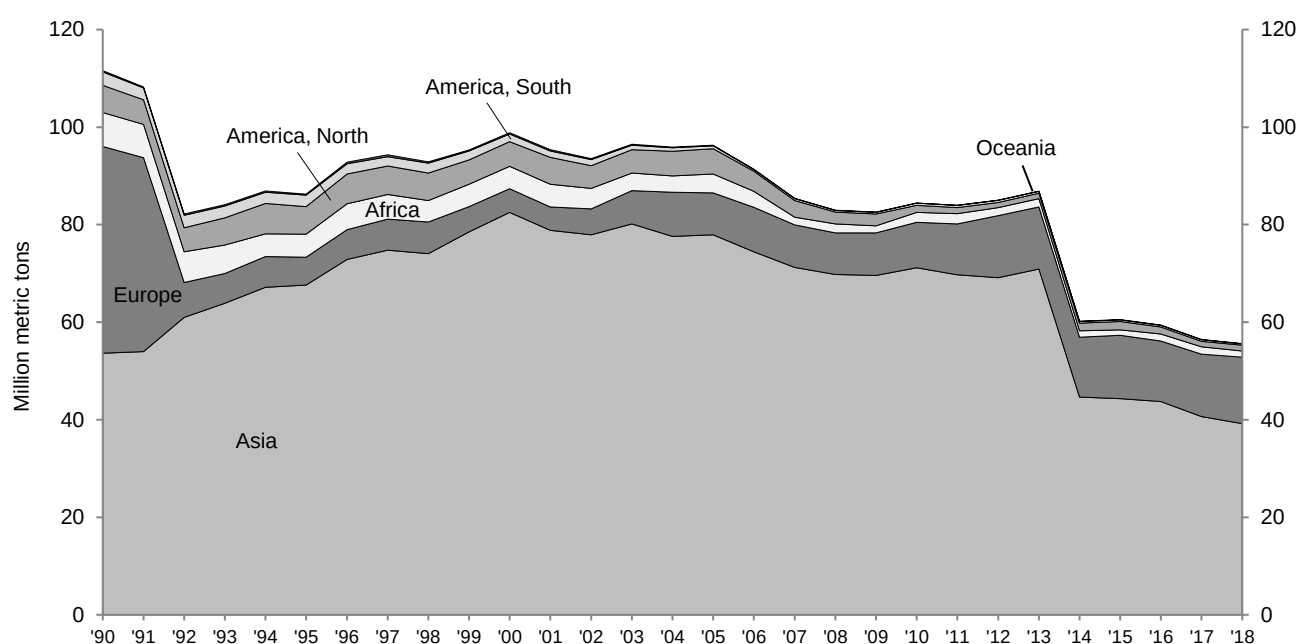


Figure 52: Major other kerosene producing countries, 2018

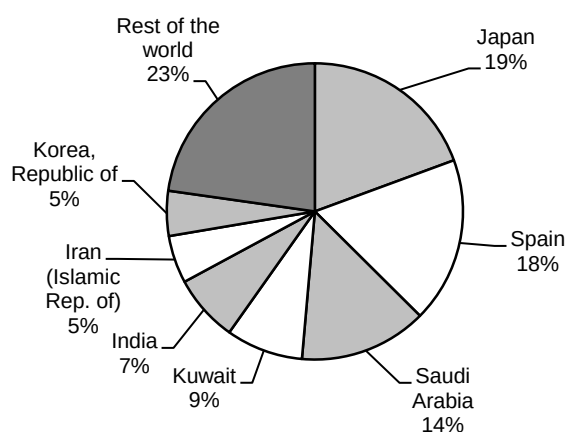


Figure 53: Major other kerosene consuming countries, 2018

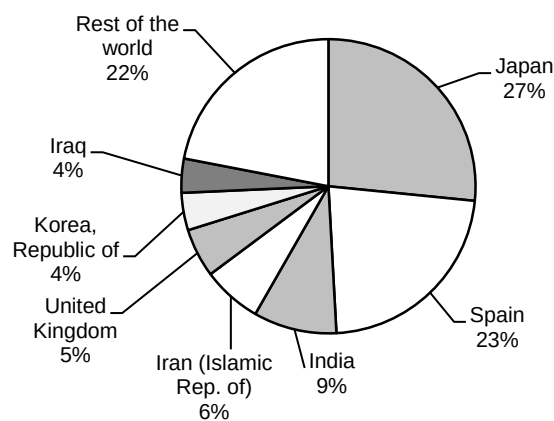


Table 19

Production, trade and supply of other kerosene

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
World	2015	60,547	7,577	16,559	789	50,776	7
	2016	59,402	6,712	15,785	1,595	48,733	7
	2017	56,440	7,163	15,624	1,387	46,592	6
	2018	55,601	6,414	15,678	2,024	44,313	6
Africa	2015	1,125	2,727	195	-5	3,662	3
	2016	1,424	1,503	225	9	2,693	2
	2017	1,495	1,303	199	-3	2,602	2
	2018	1,263	1,114	103	-5	2,279	2
Algeria	2015	*22	..	..	..	*22	*1
	2016	*21	..	..	..	*21	*1
	2017	*17	..	..	..	*17	0
	2018	*18	..	..	..	*18	0
Angola	2015	78	..	..	..	78	3
	2016	85	..	..	..	85	3
	2017	52	..	..	..	52	2
	2018	36	..	..	..	36	1
Benin	2015	..	21	..	1	20	2
	2016	..	19	..	-2	21	2
	2017	..	19	..	-1	20	2
	2018	..	49	..	-1	50	4
Botswana	2015	..	10	..	..	10	5
	2016	..	5	..	..	5	2
	2017	..	4	..	..	4	2
	2018	..	4	..	..	4	2
Burkina Faso	2015	..	4	..	*-2	6	0
	2016	..	8	..	*2	6	0
	2017	..	4	..	*-3	6	0
	2018	..	7	..	*1	6	0
Cabo Verde	2015	..	0	..	..	0	*1
	2016	..	0	..	..	0	*1
	2017	..	0	..	..	0	*1
	2018	..	0	..	..	0	*1
Cameroon	2015	122	3	38	-6	93	4
	2016	121	3	39	-6	91	4
	2017	100	3	5	..	98	4
	2018	90	3	5	..	88	3
Central African Rep.	2015	..	*2	..	..	*2	0
	2016	..	*2	..	..	*2	0
	2017	..	*3	..	..	*3	*1
	2018	..	*4	..	..	*4	*1
Chad	2015	*4	..	*2	..	*2	0
	2016	*4	..	*2	..	*2	0
	2017	*4	..	*2	..	*2	0
	2018	*4	..	2	..	*2	0
Comoros	2015	..	*10	..	..	*10	*13
	2016	..	*12	..	..	*12	*14
	2017	..	*17	..	..	*17	*21
	2018	..	*17	..	..	*17	*20
Congo	2015	7	..	..	..	7	1
	2016	10	..	..	..	10	2
	2017	7	..	..	..	7	1
	2018	7	..	..	..	7	1

Table 19

Production, trade and supply of other kerosene

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Côte d'Ivoire	2015	9	..	..	..	9	0
	2016	..	..	..	..	..	..
	2017	..	..	..	..	..	..
	2018	..	..	..	..	..	..
Dem. Rep. of the Congo	2015	..	2	..	..	2	0
	2016	..	1	..	..	1	0
	2017	..	1	..	..	1	0
	2018	..	1	..	..	1	0
Djibouti	2015	..	5	..	..	5	6
	2016	..	6	..	..	6	7
	2017	..	6	..	..	6	7
	2018	..	*6	..	..	*6	*7
Egypt	2015	62	..	56	..	6	0
	2016	63	..	*58	..	5	0
	2017	65	..	59	..	6	0
	2018	33	..	29	..	4	0
Equatorial Guinea	2015	..	*17	..	..	*17	*15
	2016	..	*17	..	..	*17	*14
	2017	..	*18	..	..	*18	*14
	2018	..	*16	..	..	*16	*12
Eritrea	2015	..	14	..	..	14	4
	2016	..	14	..	..	14	4
	2017	..	15	..	..	15	4
	2018	..	15	..	..	15	4
Eswatini	2015	..	4	..	..	4	4
	2016	..	4	..	..	4	4
	2017	..	4	..	..	4	4
	2018	..	4	..	..	4	3
Ethiopia	2015	..	267	..	6	261	3
	2016	..	160	..	-4	164	2
	2017	..	74	..	..	74	1
	2018	..	79	..	..	79	1
Gabon	2015	27	9	..	..	36	18
	2016	29	8	..	..	37	18
	2017	22	23	18	..	27	13
	2018	22	23	18	..	27	13
Ghana	2015	0	..	..	..	0	0
	2016	25	..	..	..	25	1
	2017	2	..	..	..	2	0
	2018	33	..	..	..	33	1
Guinea	2015	..	11	..	..	11	1
	2016	..	17	..	..	17	1
	2017	..	24	..	..	24	2
	2018	..	21	..	..	21	2
Guinea-Bissau	2015	..	*9	..	..	*9	*5
	2016	..	*9	..	..	*9	*5
	2017	..	*9	..	..	*9	*5
	2018	..	*9	..	..	*9	*5
Kenya	2015	0	472	83	..	389	8
	2016	0	467	76	..	390	8
	2017	0	448	66	..	382	8
	2018	..	339	..	..	339	7

Table 19

Production, trade and supply of other kerosene

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Lesotho	2015	..	23	..	..	23	11
	2016	..	25	..	..	25	12
	2017	..	27	..	..	27	13
	2018	..	28	..	..	28	13
Libya	2015	26	93	..	..	119	19
	2016	25	97	..	..	122	19
	2017	24	105	..	..	129	20
	2018	24	85	..	..	109	16
Madagascar	2015	..	23	..	-2	25	1
	2016	..	24	..	10	14	1
	2017	..	21	..	-2	23	1
	2018	..	20	..	-3	23	1
Malawi	2015	..	0	..	..	0	0
	2016	..	1	..	..	1	0
	2017	..	1	..	..	1	0
	2018	..	0	..	..	0	0
Mali	2015	..	*28	..	..	*28	*2
	2016	..	*30	..	..	*30	*2
	2017	..	*31	..	..	*31	*2
	2018	..	*32	..	..	*32	*2
Mauritius	2015	..	3	..	2	1	1
	2016	..	2	..	1	1	1
	2017	..	2	..	1	1	1
	2018	..	3	..	2	1	1
Namibia	2015	..	2	..	..	2	1
	2016	..	2	..	..	2	1
	2017	..	2	..	..	2	1
	2018	..	2	..	..	2	1
Niger	2015	..	1	..	0	1	0
	2016	..	1	..	0	1	0
	2017	..	*1	..	0	*1	0
	2018	..	1	..	..	1	0
Nigeria	2015	204	1,504	..	..	1,708	9
	2016	401	302	..	..	703	4
	2017	502	265	..	..	767	4
	2018	327	159	..	..	486	2
Rwanda	2015	..	*14	..	..	*14	*1
	2016	..	19	..	*8	11	1
	2017	..	5	..	*-3	8	1
	2018	..	5	..	*-3	8	1
Sao Tome and Principe	2015	..	*4	..	..	*4	*18
	2016	..	*4	..	..	*4	*19
	2017	..	*4	..	..	*4	*19
	2018	..	*4	..	..	*4	*20
Seychelles	2015	..	*1	..	..	*1	*10
	2016	..	*1	..	..	*1	*10
	2017	..	*1	..	..	*1	*10
	2018	..	*1	..	..	*1	*9
Sierra Leone	2015	..	*2	..	..	*2	0
	2016	..	*3	..	..	*3	0
	2017	..	*1	..	..	*1	0
	2018	..	*1	..	..	*1	0

Table 19

Production, trade and supply of other kerosene

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Somalia	2015	..	*33	..	..	*33	*2
	2016	..	*31	..	..	*31	*2
	2017	..	*31	..	..	*31	*2
	2018	..	*31	..	..	*31	*2
South Africa	2015	459	..	0	..	459	8
	2016	558	4	42	..	520	9
	2017	619	2	40	..	581	10
	2018	605	2	39	..	568	10
South Sudan	2015	..	3	..	..	3	0
	2016	..	2	..	..	2	0
	2017	..	1	..	..	1	0
	2018	..	2	..	..	2	0
Sudan	2015	17	..	..	..	17	0
	2016	11	..	..	..	11	0
	2017	4	..	..	..	4	0
	2018	10	..	..	..	10	0
Togo	2015	..	11	..	-6	17	2
	2016	..	72	..	..	72	10
	2017	..	9	..	1	8	1
	2018	..	26	..	-1	27	3
Tunisia	2015	55	0	..	2	54	5
	2016	53	0	..	0	53	5
	2017	59	0	..	4	55	5
	2018	34	..	..	..	34	3
Uganda	2015	..	49	..	..	49	1
	2016	..	48	..	..	48	1
	2017	..	46	..	..	46	1
	2018	..	47	..	..	47	1
United Rep. of Tanzania	2015	..	23	..	..	23	0
	2016	..	32	..	..	32	1
	2017	..	21	..	..	21	0
	2018	..	9	..	..	9	0
Zambia	2015	32	..	16	..	16	1
	2016	18	..	8	..	10	1
	2017	18	..	9	..	9	1
	2018	21	..	10	..	11	1
Zimbabwe	2015	..	48	..	..	48	3
	2016	..	51	..	..	51	4
	2017	..	55	..	..	55	4
	2018	..	59	..	..	59	4
America, North	2015	1,704	656	614	125	1,621	3
	2016	1,467	542	521	-73	1,561	3
	2017	1,137	488	337	-45	1,333	2
	2018	1,208	370	219	42	1,318	2
Bahamas	2015	..	*3	..	..	*3	*9
	2016	..	*3	..	..	*3	*8
	2017	..	*3	..	..	*3	*8
	2018	..	*3	..	..	*3	*8
Barbados	2015	..	*7	..	0	*7	*24
	2016	..	*8	..	0	*8	*29
	2017	..	*9	..	0	*9	*32
	2018	..	*1	..	..	*1	*3

Table 19

Production, trade and supply of other kerosene

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Bermuda	2015	..	14	..	..	14	214
	2016	..	28	..	..	28	436
	2017	..	15	..	..	15	244
	2018	..	30	..	..	30	481
British Virgin Islands	2015	..	*4	..	..	*4	*137
	2016	..	*4	..	..	*4	*136
	2017	..	*3	..	..	*3	*108
	2018	..	*3	..	..	*3	*101
Canada	2015	832	179	..	14	997	28
	2016	773	102	..	7	868	24
	2017	756	72	4	-10	834	23
	2018	728	67	..	-19	814	22
Cuba	2015	28	*53	..	..	*81	*7
	2016	2	*77	..	..	*78	*7
	2017	3	*78	..	..	*81	*7
	2018	7	*74	..	..	*80	*7
Dominica	2015	..	0	..	0	0	*3
	2016	..	0	..	0	0	*4
	2017	..	0	..	0	0	*6
	2018	..	0	..	0	0	*6
Dominican Republic	2015	6	..	..	0	5	1
	2016	9	..	..	0	9	1
	2017	6	..	..	0	6	1
	2018	8	..	..	0	8	1
El Salvador	2015	..	1	..	..	1	0
	2016	..	1	..	..	1	0
	2017	..	1	..	..	1	0
	2018	..	1	..	..	1	0
Grenada	2015	..	0	..	..	0	1
	2016	..	0	..	..	0	1
	2017	..	0	..	..	0	1
	2018	..	0	..	..	0	1
Guatemala	2015	0	111	..	86	25	2
	2016	0	114	94	-7	27	2
	2017	0	41	41	-1	1	0
	2018	..	17	17	0	1	0
Haiti	2015	..	70	..	..	70	7
	2016	..	71	..	..	71	7
	2017	..	72	..	..	72	7
	2018	..	73	..	..	73	7
Honduras	2015	..	0	..	-35	35	4
	2016	..	14	..	-9	23	2
	2017	..	0	..	-10	10	1
	2018	..	12	..	-7	19	2
Montserrat	2015	..	*1	..	..	*1	*101
	2016	..	0	..	..	0	80
	2017	..	0	..	..	0	*80
	2018	..	0	..	..	0	*80
Nicaragua	2015	7	..	..	..	7	1
	2016	6	..	..	..	6	1
	2017	8	..	..	..	8	1
	2018	8	..	..	..	8	1

Table 19

Production, trade and supply of other kerosene

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Panama	2015	..	1	..	..	1	0
	2016	..	1	..	..	1	0
	2017	..	1	..	..	1	0
	2018	..	1	..	..	1	0
St. Kitts-Nevis	2015	..	*5	..	..	*5	*102
	2016	..	*5	..	..	*5	*103
	2017	..	*5	..	..	*5	*104
	2018	..	*6	..	..	*6	*105
St. Lucia	2015	..	1	..	..	1	7
	2016	..	1	..	..	1	8
	2017	..	1	..	..	1	8
	2018	..	2	..	..	2	8
Trinidad and Tobago	2015	34	..	..	..	34	25
	2016	32	..	..	..	32	23
	2017	29	..	..	..	29	21
	2018	24	..	..	..	24	17
United States	2015	797	207	614	59	331	1
	2016	646	112	427	-63	394	1
	2017	335	185	292	-23	251	1
	2018	434	80	202	68	244	1
America, South	2015	342	15	..	1	356	1
	2016	328	18	..	2	345	1
	2017	291	33	..	0	324	1
	2018	255	19	..	1	273	1
Argentina	2015	15	..	..	0	15	0
	2016	14	..	..	0	14	0
	2017	10	..	..	-2	12	0
	2018	9	..	..	-2	11	0
Bolivia (Plur. State of)	2015	16	..	..	0	16	1
	2016	18	..	..	..	18	2
	2017	16	..	..	-3	19	2
	2018	18	..	..	..	18	2
Brazil	2015	6	..	..	0	6	0
	2016	6	..	..	0	6	0
	2017	5	..	..	..	5	0
	2018	5	..	..	..	5	0
Chile	2015	148	0	..	1	147	8
	2016	161	0	..	0	161	9
	2017	161	15	..	4	172	9
	2018	162	..	..	1	161	9
Colombia	2015	72	..	..	..	72	2
	2016	66	..	..	..	66	1
	2017	39	..	..	..	39	1
	2018	4	..	..	..	4	0
Ecuador	2015	3	..	..	..	3	0
	2016	2	..	..	..	2	0
	2017	4	..	..	..	4	0
	2018	3	..	..	..	3	0
Falkland Is. (Malvinas)	2015	..	3	..	..	3	1,052
	2016	..	3	..	..	3	1,025
	2017	..	3	..	..	3	888
	2018	..	3	..	..	3	909

Table 19

Production, trade and supply of other kerosene

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Guyana	2015	..	11	..	0	11	15
	2016	..	14	..	2	13	16
	2017	..	15	..	1	13	17
	2018	..	15	..	2	13	17
Suriname	2015	..	0	..	..	0	1
	2016	..	0	..	..	0	1
	2017	..	0	..	..	0	1
	2018	..	0	..	..	0	1
Uruguay	2015	6	..	..	0	6	2
	2016	7	..	..	0	7	2
	2017	5	..	..	0	5	1
	2018	5	..	..	0	5	2
Venezuela (Bolívar. Rep.)	2015	76	..	..	..	76	3
	2016	54	..	..	..	54	2
	2017	51	..	..	..	51	2
	2018	49	..	..	..	49	2
Asia	2015	44,314	1,457	13,694	603	31,474	7
	2016	43,723	1,868	13,020	1,704	30,867	7
	2017	40,673	2,621	13,079	1,472	28,743	6
	2018	39,197	2,435	13,491	1,868	26,274	6
Afghanistan	2015	..	6	..	..	6	0
	2016	..	10	..	..	10	0
	2017	..	36	..	..	36	1
	2018	..	12	..	..	12	0
Azerbaijan	2015	..	15	..	1	14	1
	2016	..	11	..	-4	15	1
	2017	..	3	..	..	3	0
	2018	..	23	..	..	23	2
Bahrain	2015	0	..	0	-28	28	20
	2016	0	..	0	-20	20	14
	2017	0	..	0	-18	18	12
	2018	0	..	0	-16	16	10
Bangladesh	2015	245	0	..	..	245	2
	2016	194	..	..	..	194	1
	2017	237	..	..	..	237	1
	2018	127	..	..	..	127	1
Bhutan	2015	..	4	..	..	4	5
	2016	..	4	..	..	4	5
	2017	..	3	..	..	3	5
	2018	..	3	..	..	3	4
Brunei Darussalam	2015	6	..	..	..	6	14
	2016	6	..	..	..	6	14
	2017	6	..	..	..	6	14
	2018	4	..	..	..	4	10
China	2015	1,928	24	16	23	1,913	1
	2016	1,613	27	0	26	1,613	1
	2017	1,442	43	0	-22	1,507	1
	2018	1,437	65	0	-52	1,554	1
China, Macao SAR	2015	..	*3	..	..	*3	*4
	2016	..	*2	..	..	*2	*4
	2017	..	*2	..	..	*2	*3
	2018	..	*2	..	..	*2	*3

Table 19

Production, trade and supply of other kerosene

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Cyprus	2015	..	11	..	-1	12	10
	2016	..	12	..	..	12	10
	2017	..	16	..	2	14	12
	2018	..	12	..	..	12	10
India	2015	7,504	41	10	0	7,535	6
	2016	6,041	0	15	..	6,026	5
	2017	4,408	..	17	..	4,391	3
	2018	4,072	..	19	..	4,053	3
Indonesia	2015	656	0	74	..	582	2
	2016	843	4	0	..	847	3
	2017	788	0	0	..	788	3
	2018	779	0	0	..	779	3
Iran (Islamic Rep. of)	2015	2,349	..	14	..	2,335	30
	2016	2,523	..	4	..	2,519	32
	2017	2,820	..	0	..	2,820	35
	2018	2,895	..	..	..	2,895	35
Iraq	2015	1,222	219	..	..	1,441	41
	2016	1,148	206	..	..	1,354	37
	2017	1,396	217	..	..	1,613	43
	2018	1,447	213	..	..	1,660	43
Israel	2015	264	310	253	36	285	36
	2016	283	255	264	19	255	31
	2017	..	373	263	-68	178	22
	2018	..	380	301	-9	88	10
Japan	2015	12,824	731	400	-138	13,293	104
	2016	12,863	1,063	466	-105	13,565	106
	2017	12,796	1,569	421	386	13,558	106
	2018	10,780	1,457	568	-111	11,780	93
Jordan	2015	91	..	..	..	91	10
	2016	97	..	..	11	86	9
	2017	54	68	..	32	90	9
	2018	11	40	..	..	51	5
Kazakhstan	2015	33	0	0	-25	58	3
	2016	2	0	0	-12	14	1
	2017	0	0	..	..	0	0
	2018	5	1	0	4	2	0
Korea, Dem.Ppl's.Rep.	2015	37	1	..	..	38	2
	2016	37	1	..	..	38	2
	2017	37	1	..	..	38	1
	2018	37	1	..	..	38	1
Korea, Republic of	2015	2,590	1	487	-288	2,392	47
	2016	2,716	3	265	-10	2,464	48
	2017	2,722	4	685	-58	2,099	41
	2018	2,729	..	846	62	1,821	36
Kuwait	2015	6,403	..	6,337	..	66	17
	2016	5,505	..	5,406	..	99	25
	2017	4,362	..	4,258	..	104	26
	2018	4,676	..	4,565	..	111	27
Lao People's Dem. Rep.	2015	..	*6	..	..	*6	*1
	2016	..	*6	..	..	*6	*1
	2017	..	*6	..	..	*6	*1
	2018	..	*6	..	..	*6	*1

Table 19

Production, trade and supply of other kerosene

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Malaysia	2015	6	0	41	4	-39	-1
	2016	4	0	74	-13	-57	-2
	2017	10	..	58	-3	-45	-1
	2018	18	..	50	8	-40	-1
Maldives	2015	..	1	..	..	1	2
	2016	..	0	..	..	0	0
	2017	..	0	..	..	0	1
	2018	..	0	..	..	0	0
Mongolia	2015	..	5	..	..	5	2
	2016	..	59	..	..	59	19
	2017	..	50	..	..	50	16
	2018	..	109	..	..	109	34
Nepal	2015	..	11	..	..	11	0
	2016	..	15	..	..	15	1
	2017	..	17	..	..	17	1
	2018	..	19	..	..	19	1
Oman	2015	0	..	..	..	0	0
	2016	6	..	..	..	6	1
	2017	4	..	..	..	4	1
	2018	4	..	..	..	4	1
Other Asia	2015	2	..	..	0	2	0
	2016	7	..	..	3	4	0
	2017	2	..	..	-3	5	0
	2018	5	..	..	1	4	0
Pakistan	2015	142	0	..	0	142	1
	2016	125	0	..	0	125	1
	2017	115	0	..	..	115	1
	2018	113	..	..	-5	118	1
Philippines	2015	61	26	0	-2	88	1
	2016	67	33	0	3	97	1
	2017	53	41	0	-3	97	1
	2018	47	34	..	2	79	1
Saudi Arabia	2015	6,180	..	5,736	5	439	14
	2016	7,247	86	*6,219	145	969	30
	2017	7,332	105	*7,145	-218	510	15
	2018	7,758	..	6,871	292	595	18
Singapore	2015	312	2	313	..	1	0
	2016	266	20	286	..	0	0
	2017	205	18	223	..	0	0
	2018	250	15	266	..	0	0
Sri Lanka	2015	75	0	..	-55	130	6
	2016	104	0	..	-68	172	8
	2017	60	..	..	-99	159	8
	2018	35	..	..	-7	42	2
State of Palestine	2015	..	2	..	..	2	0
	2016	..	2	..	..	2	0
	2017	..	1	..	..	1	0
	2018	..	1	..	..	1	0
Syrian Arab Republic	2015	3	..	..	..	3	0
	2016	3	..	..	..	3	0
	2017	3	..	..	..	3	0
	2018	3	..	..	..	3	0

Table 19

Production, trade and supply of other kerosene

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Thailand	2015	1,071	..	13	1,048	10	0
	2016	1,756	..	21	1,726	9	0
	2017	1,557	..	9	1,541	7	0
	2018	1,694	..	4	1,684	6	0
Turkey	2015	58	..	..	14	44	1
	2016	18	..	..	3	15	0
	2017	19	..	..	4	15	0
	2018	23	..	..	15	8	0
Turkmenistan	2015	150	..	..	..	150	27
	2016	150	..	..	..	150	26
	2017	150	..	..	..	150	26
	2018	150	..	..	..	150	26
Uzbekistan	2015	15	..	..	..	15	0
	2016	12	..	..	..	12	0
	2017	9	..	..	..	9	0
	2018	9	..	..	..	9	0
Viet Nam	2015	..	41	0	9	32	0
	2016	..	50	..	..	50	1
	2017	..	49	..	..	49	1
	2018	2	43	1	..	44	0
Yemen	2015	86	..	..	..	86	3
	2016	86	..	..	..	86	3
	2017	86	..	..	..	86	3
	2018	86	..	..	..	86	3
Europe	2015	13,013	2,695	2,056	65	13,587	18
	2016	12,407	2,754	2,019	-46	13,188	18
	2017	12,793	2,693	2,009	-40	13,517	18
	2018	13,627	2,450	1,866	118	14,094	19
Austria	2015	28	1	..	..	29	3
	2016	21	0	..	..	21	2
	2017	15	1	..	..	16	2
	2018	26	1	..	..	27	3
Belarus	2015	3	..	0	1	2	0
	2016	5	..	0	2	3	0
	2017	7	..	3	..	4	0
	2018	7	..	0	6	1	0
Belgium	2015	28	97	59	11	55	5
	2016	21	84	113	-18	10	1
	2017	31	58	166	5	-82	-7
	2018	30	64	302	-10	-198	-17
Croatia	2015	..	3	..	..	3	1
	2016	..	4	..	..	4	1
	2017	..	3	..	..	3	1
	2018	..	3	..	..	3	1
Czechia	2015	..	3	..	..	3	0
	2016	..	2	..	..	2	0
	2017	..	2	..	..	2	0
	2018	..	2	..	..	2	0
Finland	2015	..	153	83	..	70	13
	2016	..	350	78	..	272	49
	2017	..	140	120	..	20	4
	2018	..	380	54	..	326	59

Table 19

Production, trade and supply of other kerosene

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
France	2015	0	234	53	0	181	3
	2016	0	198	51	0	147	2
	2017	..	211	75	..	136	2
	2018	..	186	66	..	120	2
Germany	2015	0	11	0	0	11	0
	2016	9	21	..	2	28	0
	2017	9	22	..	5	26	0
	2018	2	22	..	-4	28	0
Greece	2015	1	1	4	0	-2	0
	2016	0	0	0	0	0	0
	2017	0	1	0	-1	2	0
	2018	..	1	..	..	1	0
Ireland	2015	141	422	18	11	534	115
	2016	175	493	12	-8	664	141
	2017	159	364	0	-10	533	112
	2018	215	350	21	-12	556	115
Italy	2015	523	414	316	50	571	9
	2016	432	425	425	-10	442	7
	2017	487	655	662	1	479	8
	2018	721	445	647	85	434	7
Luxembourg	2015	..	1	..	..	1	2
	2016	..	0	..	..	0	0
	2017	..	1	..	..	1	1
	2018	..	0	..	..	0	1
Netherlands	2015	549	215	555	-11	220	13
	2016	730	231	692	18	251	15
	2017	398	392	520	28	242	14
	2018	211	518	321	5	403	24
Norway	2015	27	122	416	0	-267	-51
	2016	18	52	208	0	-138	-26
	2017	87	48	93	19	23	4
	2018	8	68	62	0	14	3
Poland	2015	0	0	..	..	0	0
	2016	0	0	..	..	0	0
	2017	..	1	..	..	1	0
	2018	..	1	..	..	1	0
Portugal	2015	0	1	..	0	1	0
	2016	0	1	..	0	1	0
	2017	..	1	..	..	1	0
	2018	..	1	..	..	1	0
Romania	2015	11	2	..	..	13	1
	2016	10	1	..	..	11	1
	2017	1	1	..	..	2	0
	2018	1	1	..	..	2	0
Russian Federation	2015	*385	..	385	..	0	0
	2016	*298	..	298	..	0	0
	2017	*252	..	252	..	0	0
	2018	*315	..	315	..	0	0
Slovakia	2015	1	0	..	0	1	0
	2016	0	0	..	0	0	0
	2017	..	..	..	..	..	..
	2018	..	..	..	..	..	..

Table 19

Production, trade and supply of other kerosene

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Spain	2015	9,285	..	..	-34	9,319	200
	2016	8,673	..	..	14	8,659	186
	2017	9,300	..	..	-28	9,328	200
	2018	10,038	..	..	46	9,992	214
Switzerland	2015	..	2	..	..	2	0
	2016	..	2	..	..	2	0
	2017	..	2	..	..	2	0
	2018	..	2	..	..	2	0
Ukraine	2015	..	123	16	-9	116	3
	2016	..	*123	*16	*-9	*116	*3
	2017	..	*142	*16	..	*126	*3
	2018	..	..	..	..	..	..
United Kingdom	2015	2,031	890	151	46	2,724	41
	2016	2,015	767	126	-37	2,693	41
	2017	2,047	648	102	-59	2,652	40
	2018	2,053	405	78	2	2,378	35
Oceania	2015	50	26	0	1	76	2
	2016	52	27	0	-1	80	2
	2017	52	25	0	2	74	2
	2018	51	26	0	1	76	2
Australia	2015	7	0	..	-1	8	0
	2016	9	0	..	0	9	0
	2017	7	..	..	1	6	0
	2018	6	..	..	2	4	0
Fiji	2015	..	0	0	..	0	0
	2016	..	1	0	..	1	2
	2017	..	0	0	..	0	0
	2018	..	*1	..	..	*1	*1
French Polynesia	2015	..	1	..	..	1	5
	2016	..	1	..	..	1	4
	2017	..	1	..	..	1	3
	2018	..	1	..	..	1	3
Kiribati	2015	..	2	..	..	2	17
	2016	..	2	..	..	2	14
	2017	..	2	..	..	2	19
	2018	..	*2	..	..	*2	*18
New Caledonia	2015	..	7	..	..	7	24
	2016	..	8	..	..	8	30
	2017	..	5	..	..	5	19
	2018	..	8	..	..	8	27
Palau	2015	..	*2	..	..	*2	*113
	2016	..	*2	..	..	*2	*113
	2017	..	*2	..	..	*2	*118
	2018	..	*2	..	..	*2	*117
Papua New Guinea	2015	43	..	..	0	43	5
	2016	43	..	..	..	43	5
	2017	45	..	..	..	45	5
	2018	*45	..	..	..	*45	*5
Samoa	2015	..	14	0	*2	12	64
	2016	..	12	0	*-1	13	67
	2017	..	14	0	*1	13	66
	2018	..	12	0	*-1	13	66

Table 19

Production, trade and supply of other kerosene

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Tonga	2015	..	0	..	..	0	1
	2016	..	0	..	..	0	1
	2017	..	0	..	..	0	1
	2018	..	0	..	..	0	1
Tuvalu	2015	..	0	..	..	0	*4
	2016	..	0	..	..	0	*3
	2017	..	0	..	..	0	*4
	2018	..	0	..	..	0	*3

Production, trade and supply of jet fuels

Thousand metric tons and kilograms per capita

Table Notes

Data refer to aviation gasoline, gasoline-type jet fuel and kerosene-type jet fuel.

Production includes output from refineries and plants.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description/ classification, and xvi to xvii for the descriptions of relevant flows.

Figure 54: Production of jet fuels by region, 1990-2018

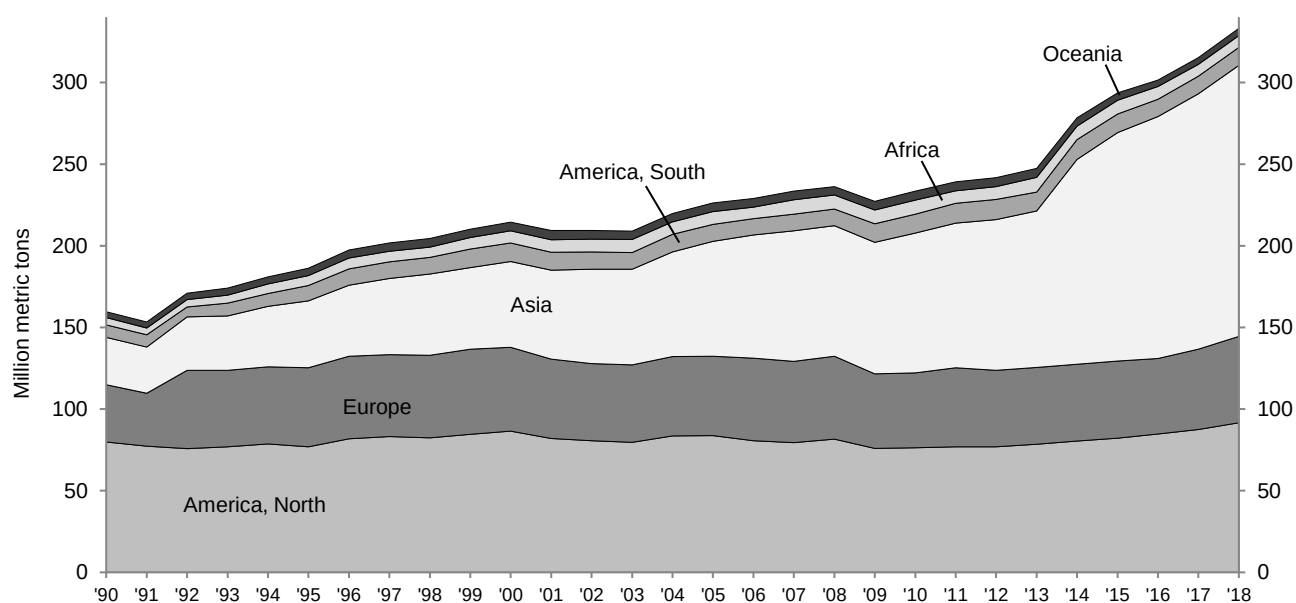


Figure 55: Major jet fuels producing countries, 2018

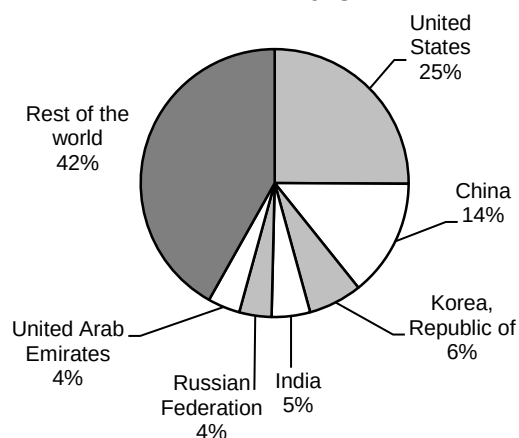
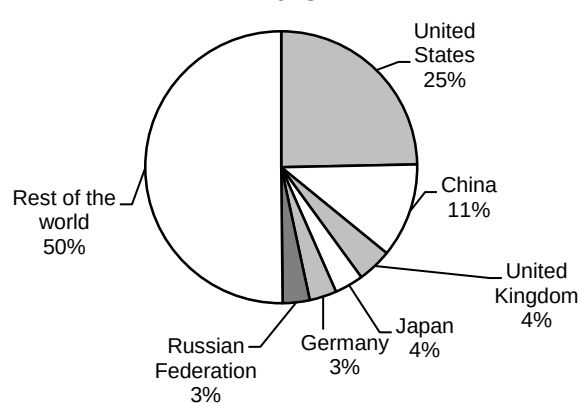


Figure 56: Major jet fuels consuming¹ countries, 2018



¹ Consumption includes bunkers

Table 20

Production, trade and supply of jet fuels

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
World	2015	293,612	76,548	87,612	168,030	2,116	112,402	15
	2016	301,501	86,795	91,468	176,452	2,115	118,260	16
	2017	315,194	90,762	95,192	184,590	-174	126,348	17
	2018	333,136	91,776	101,842	191,536	1,664	129,871	17
Africa	2015	8,391	4,285	4,285	6,766	-173	1,799	2
	2016	7,703	5,024	3,080	7,376	19	2,252	2
	2017	7,266	5,810	3,100	8,373	24	1,580	1
	2018	7,179	6,005	3,199	7,933	-12	2,064	2
Algeria	2015	*1,609	..	1,061	454	*-36	*130	*3
	2016	*1,635	..	1,100	*377	*30	*128	*3
	2017	*1,544	..	1,102	*355	*-35	*122	*3
	2018	*1,497	..	953	*434	*-31	*141	*3
Angola	2015	413	61	*183	*136	16	138	5
	2016	338	43	*102	*120	*20	138	5
	2017	350	33	*89	*238	..	56	2
	2018	228	92	*45	*234	..	40	1
Benin	2015	..	34	..	36	-7	5	0
	2016	..	23	..	32	-9	0	0
	2017	..	26	..	29	-4	1	0
	2018	..	30	..	30	..	0	0
Botswana	2015	..	17	..	*9	..	8	4
	2016	..	13	..	11	..	2	1
	2017	..	13	..	11	..	2	1
	2018	..	14	..	12	..	2	1
Burkina Faso	2015	..	36	..	31	*5	0	0
	2016	..	22	..	22	0	0	0
	2017	..	27	..	27	*-1	0	0
	2018	..	33	..	30	*3	0	0
Burundi	2015	..	3	..	3	0	0	0
	2016	..	2	..	2	0	0	0
	2017	..	4	..	4	..	0	0
	2018	..	*6	..	*6	..	0	0
Cabo Verde	2015	..	*64	..	*50	..	*14	*27
	2016	..	*58	..	*45	..	*13	*24
	2017	..	*62	..	*48	..	*14	*25
	2018	..	*64	..	*51	..	*14	*26
Cameroon	2015	107	1	84	97	..	-73	-3
	2016	106	1	83	21	..	3	0
	2017	87	2	68	17	..	4	0
	2018	79	3	62	15	..	5	0
Central African Rep.	2015	..	*16	..	16	..	0	0
	2016	..	*15	..	15	..	0	0
	2017	..	*16	..	16	..	0	0
	2018	..	*17	..	17	..	0	0
Chad	2015	*28	*3	*6	*18	..	*7	0
	2016	25	*3	*3	*18	..	7	0
	2017	*25	*3	*3	*18	..	*7	0
	2018	*25	*3	*3	*18	..	*7	0
Comoros	2015	..	*4	..	*1	..	*3	*4
	2016	..	*5	..	*1	..	*4	*4
	2017	..	*5	..	*1	..	*4	*4
	2018	..	*7	..	*2	..	*5	*6

Production, trade and supply of jet fuels

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Congo	2015	38	50	..	50	0	38	8
	2016	45	35	..	41	0	39	8
	2017	37	9	..	31	..	15	3
	2018	37	9	..	31	..	15	3
Côte d'Ivoire	2015	861	..	742	125	-38	32	1
	2016	634	..	468	159	0	6	0
	2017	*327	..	*148	*166	..	*13	*1
	2018	359	..	180	150	..	29	1
Dem. Rep. of the Congo	2015	..	122	..	122	..	0	0
	2016	..	115	..	115	..	0	0
	2017	..	117	..	117	..	0	0
	2018	..	134	..	134	..	0	0
Djibouti	2015	..	90	..	90	..	0	0
	2016	..	81	..	81	..	0	0
	2017	..	*81	..	*81	..	0	0
	2018	..	*81	..	*81	..	0	0
Egypt	2015	2,011	28	940	506	..	593	6
	2016	1,790	28	823	425	..	570	6
	2017	1,909	28	772	443	..	722	7
	2018	2,162	0	962	624	..	576	6
Equatorial Guinea	2015	..	*45	..	*45	..	0	0
	2016	..	*47	..	*47	..	0	0
	2017	..	*49	..	49	..	0	0
	2018	..	*44	..	44	..	0	0
Eritrea	2015	..	7	..	5	..	2	1
	2016	..	12	..	10	..	2	1
	2017	..	10	..	8	..	2	1
	2018	..	10	..	9	..	1	0
Eswatini	2015	..	*1	..	*1	..	0	0
	2016	..	1	..	1	..	0	0
	2017	..	2	..	2	..	0	0
	2018	..	2	..	2	..	0	0
Ethiopia	2015	..	484	..	455	..	29	0
	2016	..	595	..	588	..	7	0
	2017	..	690	..	682	..	8	0
	2018	..	737	..	728	..	9	0
Gabon	2015	61	27	21	64	..	3	2
	2016	65	28	22	68	..	3	1
	2017	36	42	23	47	..	8	4
	2018	37	42	23	54	..	2	1
Gambia	2015	..	*15	*1	*14	..	0	0
	2016	..	*15	*1	*14	..	0	0
	2017	..	*15	*1	*14	..	0	0
	2018	..	*16	*1	*15	..	0	0
Ghana	2015	18	117	..	98	-2	39	1
	2016	38	121	..	127	0	31	1
	2017	0	191	..	160	3	28	1
	2018	22	194	10	185	..	21	1
Guinea	2015	..	*30	..	*25	..	*5	0
	2016	..	*31	..	*26	..	*5	0
	2017	..	*31	..	*26	..	*5	0
	2018	..	*31	..	*26	..	*5	0

Table 20

Production, trade and supply of jet fuels

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Guinea-Bissau	2015	..	*12	..	*12	..	0	0
	2016	..	*13	..	*13	..	0	0
	2017	..	*13	..	*13	..	0	0
	2018	..	*13	..	*13	..	0	0
Kenya	2015	0	314	82	301	-82	14	0
	2016	0	709	77	705	..	-73	-1
	2017	0	763	218	762	..	-217	-4
	2018	..	675	..	674	..	1	0
Liberia	2015	..	14	..	*7	..	8	2
	2016	..	*14	..	*7	..	*8	*2
	2017	..	*14	..	*7	..	*8	*2
	2018	..	*14	..	*7	..	*8	*2
Libya	2015	316	..	263	51	..	2	0
	2016	182	..	127	53	..	2	0
	2017	436	..	377	56	..	3	0
	2018	639	..	581	56	..	2	0
Madagascar	2015	..	57	..	*38	4	15	1
	2016	..	47	..	34	0	14	1
	2017	..	47	..	39	0	8	0
	2018	..	55	..	*41	-2	17	1
Malawi	2015	..	7	..	*6	..	1	0
	2016	..	7	..	*6	..	1	0
	2017	..	8	..	*7	..	1	0
	2018	..	9	..	*8	..	1	0
Mali	2015	..	*57	..	*57	..	0	0
	2016	..	*58	..	*58	..	0	0
	2017	..	*60	..	*60	..	0	0
	2018	..	*62	..	*62	..	0	0
Mauritania	2015	..	*21	..	*20	..	*1	0
	2016	..	*21	..	20	..	*1	0
	2017	..	15	..	20	*-7	1	0
	2018	..	57	..	22	*33	1	0
Mauritius	2015	..	269	..	142	7	120	95
	2016	..	285	..	142	2	142	112
	2017	..	310	..	154	2	154	122
	2018	..	304	..	156	-9	157	124
Morocco	2015	412	371	180	630	-51	24	1
	2016	0	640	9	642	-36	25	1
	2017	..	717	..	678	14	25	1
	2018	..	743	..	733	-17	27	1
Mozambique	2015	..	108	..	*45	..	63	2
	2016	..	138	..	*46	..	92	3
	2017	..	129	..	38	63	28	1
	2018	..	74	21	3	..	50	2
Namibia	2015	..	44	..	38	..	6	3
	2016	..	44	..	38	..	6	3
	2017	..	43	..	37	..	6	2
	2018	..	42	..	37	..	5	2
Niger	2015	..	41	..	41	..	0	0
	2016	..	45	..	45	..	0	0
	2017	..	57	..	*57	..	0	0
	2018	..	45	..	*45	..	0	0

Table 20

Production, trade and supply of jet fuels

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Nigeria	2015	15	418	..	339	..	94	1
	2016	41	539	..	424	..	156	1
	2017	54	636	..	505	..	185	1
	2018	27	820	..	650	..	197	1
Rwanda	2015	..	45	..	*23	..	22	2
	2016	..	44	..	*22	..	22	2
	2017	..	*52	..	*28	..	*24	*2
	2018	..	51	..	*30	..	21	2
Sao Tome and Principe	2015	..	*11	..	*10	..	*1	*5
	2016	..	*12	..	*11	..	*1	*5
	2017	..	*12	..	*11	..	*1	*5
	2018	..	*13	..	*12	..	*1	*5
Senegal	2015	18	270	..	277	7	4	0
	2016	0	224	..	214	9	1	0
	2017	0	227	..	222	0	5	0
	2018	..	212	..	202	*6	4	0
Seychelles	2015	..	40	..	*38	..	2	24
	2016	..	46	..	*40	..	6	61
	2017	..	60	..	*52	..	8	79
	2018	..	32	..	*28	..	4	41
Sierra Leone	2015	..	*11	..	*11	..	0	0
	2016	..	*10	..	*10	..	0	0
	2017	..	*10	..	*10	..	0	0
	2018	..	*9	..	*9	..	0	0
Somalia	2015	..	*43	..	43	..	0	0
	2016	..	*43	..	43	..	0	0
	2017	..	*43	..	43	..	0	0
	2018	..	*43	..	43	..	0	0
South Africa	2015	2,341	247	722	1,477	..	389	7
	2016	2,640	93	265	1,661	..	807	14
	2017	2,379	372	299	2,152	..	299	5
	2018	2,019	333	359	1,313	..	680	12
South Sudan	2015	..	75	..	68	..	7	1
	2016	..	80	..	68	..	12	1
	2017	..	78	..	74	..	4	0
	2018	..	62	..	59	..	3	0
Sudan	2015	111	16	..	*128	..	0	0
	2016	156	0	..	*156	0	0	0
	2017	82	52	..	*134	..	0	0
	2018	38	80	..	*118	..	0	0
Togo	2015	..	24	..	27	-2	-1	0
	2016	..	50	..	53	-3	0	0
	2017	..	52	..	54	-2	0	0
	2018	..	59	..	62	-3	0	0
Tunisia	2015	..	203	..	202	5	-4	0
	2016	..	225	..	215	7	3	0
	2017	..	250	..	251	-10	9	1
	2018	..	284	..	284	8	-8	-1
Uganda	2015	..	108	..	108	..	0	0
	2016	..	98	..	98	..	0	0
	2017	..	102	..	102	..	0	0
	2018	..	108	..	108	..	0	0

Table 20

Production, trade and supply of jet fuels

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
United Rep. of Tanzania	2015	..	168	..	104	..	64	1
	2016	..	185	..	115	..	70	1
	2017	..	154	..	133	..	21	0
	2018	..	152	..	131	..	21	0
Zambia	2015	32	6	..	44	..	-6	0
	2016	9	17	..	27	..	0	0
	2017	0	23	..	26	..	-2	0
	2018	11	18	..	29	..	0	0
Zimbabwe	2015	..	30	..	30	..	0	0
	2016	..	47	..	47	..	0	0
	2017	..	57	..	57	..	0	0
	2018	..	69	..	69	..	0	0
America, North	2015	82,173	13,109	9,700	29,011	-156	56,728	100
	2016	84,701	13,942	9,491	30,074	622	58,457	102
	2017	87,414	15,317	10,556	30,483	29	61,664	107
	2018	91,646	14,783	12,393	31,407	529	62,100	107
Antigua and Barbuda	2015	..	*76	..	*64	..	*12	*123
	2016	..	*77	..	*65	..	*12	*124
	2017	..	*77	..	*65	..	*12	*123
	2018	..	*78	..	*66	..	*12	*123
Aruba	2015	..	*85	..	*85	..	0	0
	2016	..	*85	..	*85	..	0	0
	2017	..	*88	..	*88	..	0	0
	2018	..	*89	..	*89	..	0	0
Bahamas	2015	..	*51	..	*50	..	*1	*3
	2016	..	27	..	*26	..	1	3
	2017	..	30	..	*29	..	1	3
	2018	..	42	..	*39	..	3	7
Barbados	2015	..	*126	..	*126	..	0	0
	2016	..	*121	..	*121	..	0	0
	2017	..	*133	..	*133	..	0	0
	2018	..	*110	..	*110	..	0	0
Belize	2015	..	16	..	15	..	0	1
	2016	..	16	..	15	..	0	1
	2017	..	15	..	15	..	0	1
	2018	..	15	..	14	..	0	1
Bermuda	2015	..	*16	..	*16	..	0	0
	2016	..	*14	..	*14	..	0	0
	2017	..	*15	..	*15	..	0	0
	2018	..	*16	..	*16	..	0	0
Bonaire, St Eustatius, Saba	2015	..	*8	..	*8	..	0	0
	2016	..	*8	..	*8	..	0	0
	2017	..	*8	..	*8	..	0	0
	2018	..	*8	..	*8	..	0	0
Canada	2015	4,294	2,845	433	811	6	5,889	163
	2016	4,578	2,675	497	595	-1	6,162	169
	2017	5,661	2,355	1,102	598	25	6,291	171
	2018	5,540	2,895	1,144	838	64	6,389	172
Cayman Islands	2015	..	34	..	32	..	2	32
	2016	..	37	..	36	..	2	30
	2017	..	40	..	38	..	2	32
	2018	..	39	..	37	..	2	30

Table 20

Production, trade and supply of jet fuels

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Costa Rica	2015	..	182	..	*165	2	15	3
	2016	..	191	..	*185	-9	14	3
	2017	..	224	..	187	13	24	5
	2018	..	217	..	206	-7	19	4
Cuba	2015	244	577	*574	122	..	126	11
	2016	42	273	*3	180	..	132	12
	2017	68	508	*299	159	..	117	10
	2018	66	474	*421	75	..	44	4
Curaçao	2015	658	58	657	59	..	0	0
	2016	574	57	573	58	..	0	0
	2017	294	58	293	59	..	0	0
	2018	219	57	218	58	..	0	0
Dominica	2015	..	*1	..	*1	..	0	0
	2016	..	*1	..	*1	..	0	0
	2017	..	*1	..	*1	..	0	0
	2018	..	*1	..	*1	..	0	0
Dominican Republic	2015	138	355	..	490	-7	11	1
	2016	204	305	..	496	-1	14	1
	2017	154	392	..	539	-1	8	1
	2018	189	376	..	544	-1	23	2
El Salvador	2015	..	150	..	149	..	1	0
	2016	..	167	1	166	..	0	0
	2017	..	171	6	165	..	0	0
	2018	..	181	7	174	..	0	0
Greenland	2015	..	15	..	..	-1	16	283
	2016	..	17	..	..	1	17	293
	2017	..	28	..	..	9	19	333
	2018	..	*19	..	..	0	*19	*336
Grenada	2015	..	6	..	6	..	0	0
	2016	..	7	..	7	..	0	1
	2017	..	8	..	7	..	0	1
	2018	..	8	..	8	..	0	0
Guatemala	2015	..	57	2	58	..	-3	0
	2016	..	62	2	59	..	1	0
	2017	..	101	3	97	..	1	0
	2018	..	90	6	105	-23	2	0
Haiti	2015	..	27	..	22	..	5	0
	2016	..	27	..	22	..	5	0
	2017	..	27	..	22	..	5	0
	2018	..	28	..	22	..	6	1
Honduras	2015	..	79	..	67	..	12	1
	2016	..	58	..	49	..	9	1
	2017	..	70	..	59	..	11	1
	2018	..	60	..	51	..	9	1
Jamaica	2015	99	108	..	198	-10	20	7
	2016	74	125	..	202	-4	1	0
	2017	50	172	..	172	8	42	14
	2018	61	148	..	210	-4	3	1
Mexico	2015	2,182	1,088	0	3,239	-38	69	1
	2016	1,958	1,547	0	3,487	33	-15	0
	2017	1,884	1,987	0	3,733	12	126	1
	2018	1,589	2,537	..	4,105	259	-238	-2

Table 20

Production, trade and supply of jet fuels

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Nicaragua	2015	25	1	..	22	1	3	0
	2016	28	2	..	22	1	7	1
	2017	29	2	..	25	3	3	0
	2018	29	..	..	14	..	15	2
Panama	2015	..	635	..	641	-54	48	12
	2016	..	791	..	676	44	71	17
	2017	..	883	..	687	103	94	23
	2018	..	960	..	724	180	55	13
Sint Maarten (Dutch part)	2015	..	*51	..	*51	..	0	0
	2016	..	*51	..	*51	..	0	0
	2017	..	*49	..	*49	..	0	0
	2018	..	*48	..	*48	..	0	0
St. Lucia	2015	..	*27	..	26	..	*1	*8
	2016	..	*28	..	26	..	*1	*8
	2017	..	*30	..	29	..	*2	*8
	2018	..	*30	..	29	..	*2	*8
Trinidad and Tobago	2015	553	0	196	239	4	114	83
	2016	669	0	253	309	0	107	78
	2017	509	2	183	224	7	97	70
	2018	397	..	148	181	-14	82	59
United States	2015	73,980	6,435	7,838	22,250	-59	50,386	157
	2016	76,575	7,174	8,162	23,114	557	51,916	161
	2017	78,766	7,843	8,670	23,279	-150	54,810	169
	2018	83,556	6,259	10,449	23,638	75	55,653	170
America, South	2015	11,393	2,276	2,793	6,625	-551	4,802	12
	2016	10,698	2,042	2,002	6,616	-700	4,822	12
	2017	10,726	1,974	1,682	6,426	-546	5,138	12
	2018	11,069	2,121	1,201	6,855	-246	5,381	13
Argentina	2015	1,301	95	..	896	10	490	11
	2016	1,298	129	2	925	-8	508	12
	2017	1,434	97	5	982	5	539	12
	2018	1,462	167	3	893	-8	741	17
Bolivia (Plur. State of)	2015	191	..	..	82	9	100	9
	2016	189	..	..	81	6	102	9
	2017	190	..	..	79	7	104	9
	2018	180	..	..	77	2	101	9
Brazil	2015	4,635	1,113	85	2,325	-22	3,360	16
	2016	4,729	775	96	2,158	-54	3,304	16
	2017	5,041	467	97	2,110	63	3,238	16
	2018	5,200	730	366	2,392	-205	3,377	16
Chile	2015	578	503	0	532	2	547	30
	2016	556	605	0	548	38	575	32
	2017	592	627	0	579	14	626	34
	2018	635	610	..	636	-21	630	34
Colombia	2015	857	88	..	1,277	..	-332	-7
	2016	1,091	122	..	1,282	..	-69	-1
	2017	1,221	152	37	1,272	..	64	1
	2018	1,370	54	13	1,457	..	-46	-1
Ecuador	2015	349	31	..	184	-10	206	13
	2016	342	4	..	229	-2	118	7
	2017	393	4	..	248	-4	154	9
	2018	365	4	..	251	-3	122	7

Table 20

Production, trade and supply of jet fuels

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Falkland Is. (Malvinas)	2015	..	0	..	..	..	0	59
	2016	..	0	..	..	..	0	61
	2017	..	0	..	..	..	0	61
	2018	..	0	..	..	..	0	62
Guyana	2015	..	14	..	13	..	1	1
	2016	..	17	..	16	..	1	1
	2017	..	18	..	18	..	1	1
	2018	..	18	..	17	..	1	1
Paraguay	2015	..	36	..	33	..	3	0
	2016	..	49	..	45	..	3	0
	2017	..	64	..	60	..	3	1
	2018	..	74	..	72	-1	3	0
Peru	2015	620	344	603	840	-540	61	2
	2016	639	295	630	950	-695	49	2
	2017	620	442	662	678	-617	338	11
	2018	633	417	0	686	-7	371	12
Suriname	2015	..	49	..	*44	..	5	9
	2016	..	44	..	*39	..	4	8
	2017	..	45	..	*41	..	5	8
	2018	..	*45	..	*41	..	*5	*8
Uruguay	2015	94	3	..	93	-1	5	2
	2016	114	1	..	96	15	5	1
	2017	31	59	..	98	-14	6	2
	2018	105	2	..	105	-3	5	1
Venezuela (Bolivar. Rep.)	2015	2,768	..	2,105	308	0	355	12
	2016	1,741	..	1,274	246	0	221	7
	2017	1,204	..	881	263	0	60	2
	2018	1,119	..	819	229	..	71	2
Asia	2015	139,919	19,898	53,711	69,501	1,601	35,004	8
	2016	147,998	25,455	58,504	74,269	2,152	38,528	9
	2017	156,333	25,559	60,451	76,613	939	43,889	10
	2018	165,939	24,329	63,064	79,987	1,104	46,112	10
Afghanistan	2015	..	66	..	*10	..	57	2
	2016	..	*66	..	*10	..	*56	*2
	2017	..	*67	..	*11	..	*57	*2
	2018	..	*67	..	*11	..	*57	*2
Armenia	2015	..	31	..	*31	..	0	0
	2016	..	44	..	44	..	0	0
	2017	..	54	..	54	..	0	0
	2018	..	62	..	62	..	0	0
Azerbaijan	2015	689	..	237	265	-8	195	20
	2016	627	..	236	175	-15	231	24
	2017	588	82	181	159	-1	331	34
	2018	708	96	305	109	30	361	36
Bahrain	2015	3,323	..	2,852	436	2	33	24
	2016	3,175	..	2,636	435	72	32	22
	2017	3,116	..	2,678	447	-36	27	18
	2018	3,116	..	2,559	483	38	36	23
Bangladesh	2015	1	338	..	339	..	0	0
	2016	1	354	..	347	..	8	0
	2017	1	394	..	377	..	18	0
	2018	1	407	..	408	..	0	0

Table 20

Production, trade and supply of jet fuels

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Bhutan	2015	..	3	..	*3	..	0	0
	2016	..	3	..	*3	..	0	0
	2017	..	3	..	*3	..	0	0
	2018	..	4	..	*4	..	0	0
Brunei Darussalam	2015	71	12	0	82	1	0	0
	2016	45	26	0	74	-2	-1	-2
	2017	46	30	0	71	2	3	7
	2018	56	26	0	81	0	1	2
Cambodia	2015	..	97	..	91	..	6	0
	2016	..	105	..	86	..	19	1
	2017	..	153	..	108	7	38	2
	2018	..	168	..	118	..	50	3
China	2015	35,443	3,461	12,357	7,572	135	18,840	13
	2016	39,081	3,494	13,099	8,363	156	20,957	15
	2017	41,797	3,714	13,132	9,285	-127	23,221	16
	2018	47,216	4,062	14,670	10,097	565	25,946	18
China, Hong Kong SAR	2015	..	5,977	0	6,140	-175	11	2
	2016	..	6,379	0	6,262	108	10	1
	2017	..	6,305	0	6,620	-326	11	1
	2018	..	6,691	0	6,838	-156	8	1
Cyprus	2015	..	265	23	233	8	1	1
	2016	..	290	16	263	11	0	0
	2017	..	290	0	299	-8	-1	-1
	2018	..	306	..	308	2	-4	-3
Georgia	2015	..	65	..	70	-6	1	0
	2016	..	71	..	71	-1	1	0
	2017	..	101	..	95	5	1	0
	2018	..	102	..	103	-1	0	0
India	2015	11,789	0	*5,686	*4,383	*48	1,672	1
	2016	*13,828	*338	*7,270	*4,899	*57	*1,940	*1
	2017	14,594	291	7,183	*3,792	*10	3,900	3
	2018	*15,461	*259	*7,389	*4,129	*98	*4,104	*3
Indonesia	2015	2,553	956	2	835	..	2,671	10
	2016	2,599	890	2	775	..	2,712	10
	2017	2,613	1,673	2	964	..	3,320	13
	2018	2,993	1,231	2	1,033	..	3,188	12
Iran (Islamic Rep. of)	2015	1,390	1	..	1,325	..	66	1
	2016	1,505	*1	..	1,488	..	18	0
	2017	1,592	*1	..	*1,591	..	2	0
	2018	1,633	*1	..	*1,633	..	*1	0
Iraq	2015	197	330	..	527	..	0	0
	2016	211	448	..	659	..	0	0
	2017	247	392	..	639	..	0	0
	2018	212	407	..	619	..	0	0
Israel	2015	868	..	..	846	..	22	3
	2016	934	..	..	911	..	23	3
	2017	1,127	..	..	1,021	..	106	13
	2018	1,325	..	..	1,087	..	238	28
Japan	2015	12,334	615	2,661	6,076	-13	4,225	33
	2016	12,461	653	2,697	6,353	-3	4,067	32
	2017	11,500	1,262	2,071	6,652	61	3,978	31
	2018	12,194	1,184	2,495	6,840	-111	4,154	33

Table 20

Production, trade and supply of jet fuels

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Jordan	2015	262	34	..	100	-1	196	21
	2016	291	64	..	87	22	245	26
	2017	287	125	..	63	20	329	34
	2018	336	67	..	57	-13	358	36
Kazakhstan	2015	280	87	16	*306	-7	52	3
	2016	*264	*151	*15	*330	3	*67	*4
	2017	302	263	17	*477	7	64	4
	2018	387	232	21	615	-1	-16	-1
Korea, Republic of	2015	19,135	..	13,521	4,146	-41	1,509	30
	2016	20,277	..	14,042	4,632	248	1,355	27
	2017	21,944	..	15,160	4,742	178	1,864	36
	2018	21,571	..	14,560	4,996	79	1,936	38
Kuwait	2015	2,540	..	1,802	738	..	0	0
	2016	2,184	..	1,459	725	..	0	0
	2017	1,731	..	821	909	..	1	0
	2018	1,855	..	941	914	..	0	0
Kyrgyzstan	2015	..	182	71	103	6	2	0
	2016	..	181	55	103	-3	26	4
	2017	..	80	57	19	1	3	0
	2018	..	75	67	4	-2	6	1
Lao People's Dem. Rep.	2015	..	45	..	*34	..	12	2
	2016	..	*45	..	*34	..	*12	*2
	2017	..	*46	..	*34	..	*12	*2
	2018	..	*48	..	*36	..	*12	*2
Lebanon	2015	..	205	..	*205	..	0	0
	2016	..	244	..	*244	..	0	0
	2017	..	270	..	*270	..	0	0
	2018	..	264	..	*264	..	0	0
Malaysia	2015	2,751	536	532	2,428	-93	420	14
	2016	2,469	1,404	1,035	2,339	-97	596	19
	2017	3,152	1,167	1,288	2,494	-3	540	17
	2018	3,342	517	801	2,418	1	639	20
Maldives	2015	..	63	..	*30	..	33	74
	2016	..	*31	..	*15	..	*16	*33
	2017	..	42	..	*20	..	22	44
	2018	..	39	..	*20	..	19	37
Myanmar	2015	17	114	..	..	-1	132	3
	2016	16	103	..	..	-14	132	2
	2017	15	191	..	..	-2	208	4
	2018	8	174	..	70	..	112	2
Nepal	2015	..	65	..	62	..	3	0
	2016	..	128	..	128	..	0	0
	2017	..	153	..	127	..	26	1
	2018	..	155	..	124	..	31	1
Oman	2015	668	..	149	423	..	96	22
	2016	666	..	136	184	..	346	77
	2017	923	..	277	248	..	398	85
	2018	1,377	..	1,089	284	..	4	1
Other Asia	2015	3,831	173	1,022	2,554	-12	440	19
	2016	3,729	211	912	2,745	36	247	10
	2017	3,780	106	829	2,845	-11	223	9
	2018	4,087	148	959	2,908	1	367	15

Table 20

Production, trade and supply of jet fuels

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Pakistan	2015	836	105	98	209	0	634	3
	2016	879	158	127	240	0	670	3
	2017	914	250	220	*250	..	693	3
	2018	783	222	171	*209	..	625	3
Philippines	2015	926	736	..	1,232	9	420	4
	2016	1,020	880	..	1,313	8	578	6
	2017	913	1,149	..	1,601	-2	463	4
	2018	1,040	1,201	..	1,647	38	556	5
Qatar	2015	3,052	..	415	1,209	1,428	0	0
	2016	3,447	..	154	1,719	1,574	0	0
	2017	4,683	..	1,249	2,747	687	0	0
	2018	4,385	..	1,248	2,859	278	0	0
Saudi Arabia	2015	3,672	..	155	2,638	..	879	28
	2016	4,271	..	679	2,803	..	789	24
	2017	4,321	..	270	3,070	..	981	30
	2018	4,572	..	325	3,446	..	801	24
Singapore	2015	9,692	1,906	4,703	*6,897	..	-1	0
	2016	10,175	2,974	5,843	*7,305	..	0	0
	2017	11,864	3,086	7,413	*7,537	..	0	0
	2018	11,862	1,370	5,286	*7,946	..	0	0
Sri Lanka	2015	155	271	..	371	52	3	0
	2016	148	337	..	523	-42	3	0
	2017	236	282	..	540	-31	9	0
	2018	237	461	..	501	-28	225	11
Syrian Arab Republic	2015	196	..	125	7	..	64	4
	2016	211	..	138	7	..	66	4
	2017	234	..	147	8	..	79	5
	2018	219	..	139	8	..	72	4
Tajikistan	2015	..	54	..	54	..	0	0
	2016	..	35	..	35	..	0	0
	2017	..	18	..	18	..	0	0
	2018	..	29	..	29	..	0	0
Thailand	2015	5,587	3	1,138	3,714	-4	742	11
	2016	5,262	66	417	3,971	62	878	13
	2017	5,573	37	568	4,149	-13	906	13
	2018	6,097	42	756	4,484	64	835	12
Timor-Leste	2015	..	*3	..	*3	..	0	0
	2016	..	*3	..	*3	..	0	0
	2017	..	*3	..	*3	..	0	0
	2018	..	*3	..	*3	..	0	0
Turkey	2015	5,027	180	281	3,469	270	1,187	15
	2016	4,504	337	196	3,334	-32	1,343	17
	2017	4,837	194	314	3,454	69	1,194	15
	2018	4,787	482	110	3,698	222	1,239	15
Turkmenistan	2015	470	..	..	470	..	0	0
	2016	470	..	..	470	..	0	0
	2017	470	..	..	470	..	0	0
	2018	470	..	..	470	..	0	0
United Arab Emirates	2015	11,734	1,520	5,455	7,794	..	5	1
	2016	12,664	3,017	6,765	8,269	..	647	69
	2017	12,398	1,521	5,992	7,391	451	85	9
	2018	12,931	1,684	8,476	6,827	..	-689	-71

Table 20

Production, trade and supply of jet fuels

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Uzbekistan	2015	186	..	..	*92	..	93	3
	2016	183	..	..	*91	..	92	3
	2017	146	..	..	*73	..	74	2
	2018	193	..	..	*90	..	103	3
Viet Nam	2015	196	1,399	372	938	2	283	3
	2016	377	1,925	554	1,397	3	348	4
	2017	357	1,765	557	860	0	705	7
	2018	444	2,046	658	1,094	1	737	8
Yemen	2015	50	..	38	12	..	0	0
	2016	26	..	*20	6	..	0	0
	2017	31	..	*25	6	..	0	0
	2018	41	..	*37	5	-1	0	0
Europe	2015	47,187	33,150	16,994	51,504	1,277	10,561	14
	2016	46,376	35,385	18,228	53,045	25	10,462	14
	2017	49,293	36,899	19,218	57,147	-597	10,424	14
	2018	52,838	39,096	21,765	59,460	258	10,452	14
Albania	2015	..	2	..	2	..	0	0
	2016	..	10	..	6	3	1	0
	2017	..	17	..	*6	10	1	0
	2018	..	16	..	6	9	1	0
Austria	2015	649	113	38	675	17	32	4
	2016	652	140	25	738	-2	31	4
	2017	614	148	30	713	-10	29	3
	2018	761	84	20	803	-8	30	3
Belarus	2015	388	12	266	111	2	21	2
	2016	329	21	199	119	10	22	2
	2017	401	15	260	126	8	22	2
	2018	370	18	210	144	16	17	2
Belgium	2015	1,686	798	868	1,408	157	51	5
	2016	1,666	490	770	1,401	-39	24	2
	2017	1,942	1,476	1,787	1,540	-11	102	9
	2018	1,842	1,627	1,591	1,642	144	92	8
Bosnia and Herzegovina	2015	..	6	..	6	..	0	0
	2016	..	10	..	10	..	0	0
	2017	..	10	..	10	..	0	0
	2018	..	7	..	7	..	0	0
Bulgaria	2015	179	34	22	172	6	13	2
	2016	207	33	20	207	-3	16	2
	2017	265	14	25	232	2	20	3
	2018	259	24	18	249	-3	19	3
Croatia	2015	105	24	6	111	2	10	2
	2016	116	22	10	118	..	10	2
	2017	131	31	15	141	-5	11	3
	2018	192	26	10	176	22	10	2
Czechia	2015	186	143	0	285	7	37	3
	2016	60	276	..	306	-11	41	4
	2017	180	210	1	343	-10	56	5
	2018	181	257	4	396	..	38	4
Denmark	2015	144	900	65	850	82	47	8
	2016	130	1,063	84	914	114	81	14
	2017	122	928	179	943	-134	62	11
	2018	113	944	57	987	-33	46	8

Table 20

Production, trade and supply of jet fuels

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Estonia	2015	..	73	23	49	0	1	1
	2016	..	64	19	45	0	0	0
	2017	..	78	19	58	..	1	1
	2018	..	71	2	68	..	1	1
Finland	2015	546	315	6	619	-1	237	43
	2016	572	308	6	621	-2	255	46
	2017	755	160	7	658	-4	254	46
	2018	794	166	2	753	16	189	34
France	2015	3,874	4,733	1,148	5,516	68	1,875	28
	2016	3,790	4,600	1,031	5,434	41	1,884	28
	2017	4,257	4,413	1,216	5,475	137	1,842	27
	2018	4,186	5,761	1,944	5,650	138	2,215	33
Germany	2015	5,178	5,002	1,218	7,836	83	1,043	13
	2016	5,317	5,014	864	8,429	36	1,002	12
	2017	5,347	5,935	1,296	9,319	-81	748	9
	2018	5,101	6,548	1,354	9,611	-70	754	9
Gibraltar	2015	..	8	..	8	..	0	0
	2016	..	8	..	8	..	0	0
	2017	..	8	..	8	..	0	0
	2018	..	6	..	6	..	0	0
Greece	2015	2,079	225	1,193	802	-113	422	40
	2016	2,328	166	1,229	856	65	344	32
	2017	2,431	220	1,384	960	-32	339	32
	2018	3,136	51	1,694	1,060	85	348	33
Hungary	2015	191	1	11	175	1	5	1
	2016	199	14	11	186	9	7	1
	2017	236	1	8	216	4	9	1
	2018	297	1	22	267	-1	10	1
Iceland	2015	..	218	..	214	-2	6	18
	2016	..	321	..	291	12	18	54
	2017	..	360	..	364	-7	3	9
	2018	..	442	..	408	26	8	24
Ireland	2015	..	1,159	80	796	-6	289	62
	2016	..	1,066	0	822	1	243	52
	2017	..	1,230	0	966	7	257	54
	2018	..	1,465	148	1,041	-78	354	73
Italy	2015	2,115	1,835	21	3,083	43	803	13
	2016	2,047	2,088	66	3,209	14	846	14
	2017	2,218	2,273	226	3,329	34	902	15
	2018	2,770	2,336	337	3,734	75	960	16
Kosovo	2015	..	4	..	4	..	0	0
	2016	..	4	..	4	..	0	0
	2017	..	6	..	6	..	0	0
	2018	..	3	..	3	..	0	0
Latvia	2015	..	104	0	104	0	0	0
	2016	..	122	2	119	0	1	1
	2017	..	137	..	136	..	1	1
	2018	..	149	..	149	..	0	0
Lithuania	2015	1,029	52	141	79	..	861	294
	2016	1,082	68	200	93	-1	858	297
	2017	1,059	52	213	103	11	784	276
	2018	955	39	253	122	-8	627	224

Production, trade and supply of jet fuels

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Luxembourg	2015	..	444	..	445	-1	0	0
	2016	..	498	4	493	..	1	2
	2017	..	580	22	558	..	0	0
	2018	..	598	..	597	1	0	0
Malta	2015	..	116	..	112	2	2	5
	2016	..	121	..	121	-2	2	5
	2017	..	152	..	136	16	0	0
	2018	..	143	..	153	-10	0	0
Montenegro	2015	..	24	5	18	1	0	0
	2016	..	25	6	19	0	0	0
	2017	..	46	26	20	..	0	0
	2018	..	47	21	26	..	0	0
Netherlands	2015	7,503	3,074	6,630	3,659	275	13	1
	2016	7,556	4,469	8,256	3,754	-82	97	6
	2017	7,654	3,626	7,549	3,863	-210	78	5
	2018	8,928	3,342	8,202	3,909	30	129	8
North Macedonia	2015	0	28	14	..	0	13	6
	2016	0	28	13	..	0	15	7
	2017	..	33	13	..	0	20	10
	2018	..	38	15	..	0	23	11
Norway	2015	840	399	38	583	5	613	118
	2016	533	381	20	502	-5	397	76
	2017	763	206	5	524	-31	471	89
	2018	778	230	1	547	41	419	78
Poland	2015	1,096	46	487	632	5	18	0
	2016	1,183	22	535	665	-20	25	1
	2017	1,119	2	265	828	1	27	1
	2018	1,339	31	343	980	15	32	1
Portugal	2015	1,160	12	2	1,019	0	151	15
	2016	1,237	17	1	1,119	1	133	13
	2017	1,361	68	3	1,247	16	163	16
	2018	1,432	133	22	1,328	36	179	17
Republic of Moldova	2015	..	22	..	24	-2	0	0
	2016	..	33	..	32	1	0	0
	2017	..	46	..	47	-1	0	0
	2018	..	55	..	54	1	0	0
Romania	2015	400	16	275	204	-8	-55	-3
	2016	398	22	255	248	-8	-75	-4
	2017	381	87	269	292	9	-102	-5
	2018	418	78	326	119	3	48	2
Russian Federation	2015	12,298	27	2,338	*5,045	..	4,942	34
	2016	*12,030	30	2,432	*4,857	..	*4,771	*33
	2017	12,577	68	2,272	5,399	..	4,974	34
	2018	12,982	15	2,670	5,578	..	4,749	33
Serbia	2015	108	1	45	62	2	0	0
	2016	123	5	15	115	-2	0	0
	2017	155	1	27	128	1	0	0
	2018	190	3	52	135	6	0	0
Slovakia	2015	92	..	46	42	4	0	0
	2016	99	3	60	48	-6	0	0
	2017	76	..	33	39	4	0	0
	2018	95	2	52	46	-1	0	0

Table 20

Production, trade and supply of jet fuels

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Slovenia	2015	..	318	290	25	2	1	0
	2016	..	231	180	21	29	1	0
	2017	..	239	216	25	-2	0	0
	2018	..	233	203	34	-5	1	0
Spain	2015	226	2,217	516	3,758	435	-2,266	-49
	2016	214	2,191	619	3,984	-156	-2,042	-44
	2017	189	2,244	578	4,349	-271	-2,223	-48
	2018	381	1,802	528	4,531	8	-2,884	-62
Sweden	2015	104	790	0	720	-5	179	18
	2016	73	954	70	800	74	83	8
	2017	22	947	16	867	-57	143	14
	2018	204	1,042	92	913	14	227	23
Switzerland	2015	38	1,606	..	1,580	15	49	6
	2016	43	1,668	..	1,653	-1	59	7
	2017	7	1,725	..	1,710	-7	29	3
	2018	5	1,859	..	1,795	-6	75	9
Ukraine	2015	..	..	..	121	..	-121	-3
	2016	..	..	..	*121	..	*-121	*-3
	2017	..	..	..	*121	..	*-121	*-3
	2018	..	..	..	..	..	..	..
United Kingdom	2015	4,973	8,249	1,202	10,550	201	1,269	19
	2016	4,392	8,778	1,226	10,557	-45	1,432	22
	2017	5,031	9,106	1,258	11,342	16	1,521	23
	2018	5,129	9,405	1,572	11,433	-206	1,735	26
Oceania	2015	4,548	3,830	129	4,623	118	3,509	88
	2016	4,024	4,947	163	5,072	-3	3,739	92
	2017	4,162	5,202	185	5,548	-22	3,653	89
	2018	4,465	5,442	219	5,895	31	3,763	91
Australia	2015	3,445	3,405	23	3,660	71	3,096	129
	2016	2,759	4,428	4	3,852	41	3,290	136
	2017	2,841	4,640	56	4,212	6	3,207	130
	2018	3,040	4,857	114	4,483	26	3,274	131
Cook Islands	2015	..	*9	..	*9	..	0	0
	2016	..	*9	..	*9	..	0	0
	2017	..	*9	..	*9	..	0	0
	2018	..	*9	..	*9	..	0	0
Fiji	2015	..	185	106	*27	*39	13	15
	2016	..	148	159	*24	*-48	12	14
	2017	..	158	129	*30	*-14	12	14
	2018	..	*161	*105	*31	*13	*13	*14
French Polynesia	2015	..	12	..	*9	*-1	4	15
	2016	..	14	..	*9	*1	4	15
	2017	..	15	..	*10	*1	4	15
	2018	..	12	..	*9	*-1	4	15
Kiribati	2015	..	1	..	*1	..	1	6
	2016	..	1	..	0	..	1	5
	2017	..	1	..	*1	..	1	7
	2018	..	*1	..	*1	..	*1	*7
Marshall Islands	2015	..	*2	..	*2	..	0	0
	2016	..	*2	..	*2	..	0	0
	2017	..	*2	..	*2	..	0	0
	2018	..	*2	..	*2	..	0	0

Table 20

Production, trade and supply of jet fuels

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Micronesia (Fed. States of)	2015	..	7	..	7	..	1	6
	2016	..	*7	..	*6	..	*1	*12
	2017	..	*7	..	*6	..	*1	*10
	2018	..	*7	..	*6	..	*1	*10
Nauru	2015	..	*4	..	*4	..	0	0
	2016	..	5	..	*5	..	0	0
	2017	..	4	..	*4	..	0	0
	2018	..	*4	..	*4	..	0	0
New Caledonia	2015	..	33	..	24	4	5	19
	2016	..	31	..	25	1	5	17
	2017	..	31	..	26	-1	6	22
	2018	..	45	..	36	*1	8	29
New Zealand	2015	1,069	68	0	791	6	340	74
	2016	1,159	211	0	1,049	2	319	68
	2017	1,221	275	..	1,161	-15	350	74
	2018	1,325	279	..	1,223	-9	390	82
Niue	2015	..	1	..	0	..	0	15
	2016	..	*1	..	*1	..	0	*20
	2017	..	*1	..	0	..	0	*15
	2018	..	*1	..	0	..	0	*27
Palau	2015	..	*10	..	*10	..	0	0
	2016	..	*11	..	*11	..	0	0
	2017	..	*12	..	*12	..	0	0
	2018	..	*13	..	*13	..	0	0
Papua New Guinea	2015	34	77	0	*63	0	48	6
	2016	106	63	0	*63	0	106	13
	2017	100	30	..	58	1	71	8
	2018	*100	*30	..	*58	*1	*71	*8
Solomon Islands	2015	..	5	..	*4	..	1	1
	2016	..	*5	..	*4	..	*1	*1
	2017	..	*5	..	*4	..	*1	*1
	2018	..	*5	..	*4	..	*1	*1
Tonga	2015	..	5	..	*5	0	0	1
	2016	..	3	..	*3	0	0	1
	2017	..	5	..	*5	0	0	1
	2018	..	4	..	*4	..	0	2
Vanuatu	2015	..	*7	..	*7	..	0	0
	2016	..	*7	..	*7	..	0	0
	2017	..	*7	..	*7	..	0	0
	2018	..	*11	..	*11	..	0	0
Wallis and Futuna Is.	2015	..	*1	..	1	..	0	0
	2016	..	*1	..	1	..	0	0
	2017	..	*1	..	1	..	0	0
	2018	..	*1	..	1	..	0	0

Production, trade and supply of gas oil/diesel oil

Thousand metric tons and kilograms per capita

Table Notes

Production includes output from refineries and plants, together with quantities from other sources which include any blended biodiesel.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description/ classification, and xvi to xvii for the descriptions of relevant flows.

Figure 57: Production of gas oil/diesel oil by region, 1990-2018

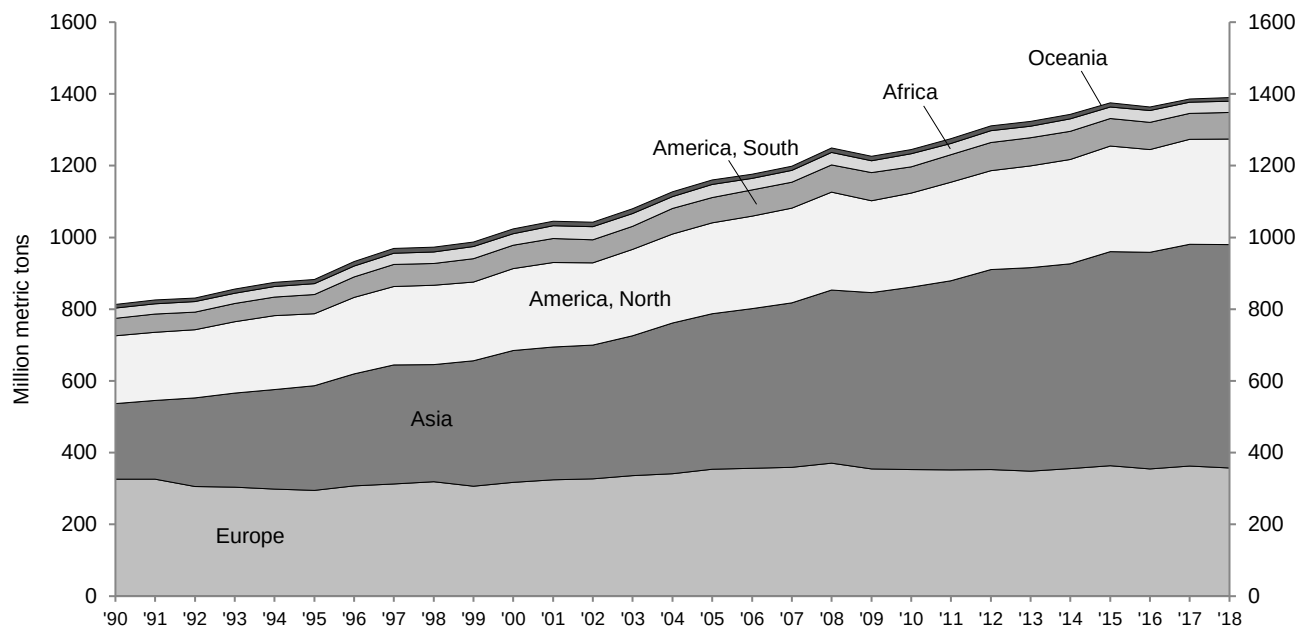


Figure 58: Major gas oil/diesel oil producing countries, 2018

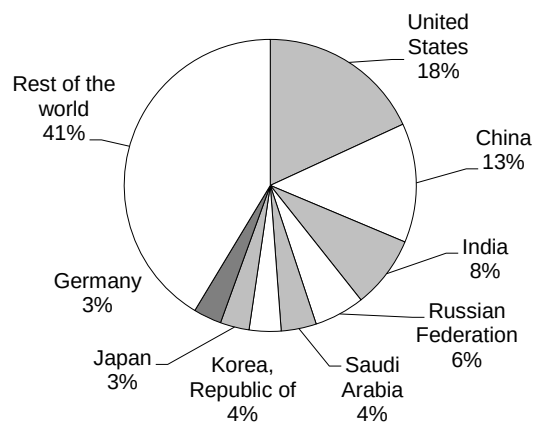


Figure 59: Major gas oil/diesel oil consuming countries, 2018

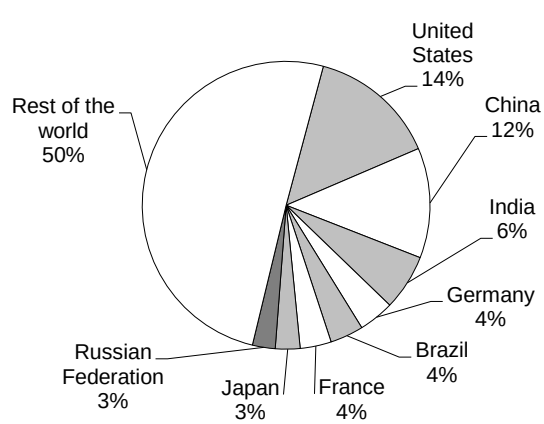


Table 21

Production, trade and supply of gas oil/diesel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
World	2015	1,375,432	374,346	377,124	41,984	10,386	1,320,284	179
	2016	1,363,507	393,082	406,069	43,629	3,296	1,303,595	175
	2017	1,386,257	395,051	417,071	46,162	-7,645	1,325,719	176
	2018	1,389,831	398,731	414,400	41,593	-3,264	1,335,832	175
Africa	2015	32,105	54,037	5,372	2,428	59	78,283	66
	2016	32,470	51,082	4,202	2,424	-646	77,572	64
	2017	30,626	52,684	3,318	1,679	-488	78,800	63
	2018	31,612	55,982	3,388	2,214	-198	82,190	64
Algeria	2015	8,826	1,737	..	60	162	10,341	260
	2016	8,892	1,459	..	57	100	10,194	251
	2017	8,537	1,413	..	64	-186	10,072	243
	2018	10,189	247	..	58	188	10,190	241
Angola	2015	608	3,065	31	..	..	3,642	131
	2016	599	2,353	30	..	*-371	3,293	114
	2017	607	2,092	28	..	*-180	2,851	96
	2018	436	1,096	26	..	*-506	2,012	65
Benin	2015	..	779	..	..	26	753	71
	2016	..	691	..	..	-34	725	67
	2017	..	760	..	..	-1	761	68
	2018	..	862	..	..	-7	869	76
Botswana	2015	..	478	..	..	..	478	225
	2016	..	459	..	..	..	459	212
	2017	..	444	..	..	..	444	201
	2018	..	464	..	..	..	464	206
Burkina Faso	2015	..	527	..	..	*-7	534	29
	2016	..	418	..	..	-145	564	30
	2017	..	522	..	..	-68	590	31
	2018	..	664	..	..	*35	629	32
Burundi	2015	..	*49	..	..	-1	*50	*5
	2016	..	*56	..	..	0	*56	*5
	2017	..	*66	..	..	..	*66	*6
	2018	..	*85	..	..	..	*85	*8
Cabo Verde	2015	..	*97	..	*31	..	*66	*127
	2016	..	*111	..	*35	..	*76	*143
	2017	..	*119	..	37	..	*82	*152
	2018	..	*124	..	*39	..	*85	*157
Cameroon	2015	578	292	134	..	..	736	32
	2016	572	300	138	..	..	734	31
	2017	471	483	165	..	..	789	32
	2018	427	528	145	..	..	810	32
Central African Rep.	2015	..	*34	..	..	..	*34	*8
	2016	..	*40	..	..	..	*40	*9
	2017	..	*40	..	..	..	*40	*9
	2018	..	*40	..	..	..	*40	*9
Chad	2015	*333	..	*130	..	..	*203	*14
	2016	*291	..	*84	..	..	*207	*14
	2017	*291	..	*84	..	..	*207	*14
	2018	*296	..	*86	..	..	*210	*14
Comoros	2015	..	*32	..	..	..	*32	*41
	2016	..	*40	..	..	..	*40	*50
	2017	..	*46	..	..	..	*46	*57
	2018	..	*50	..	..	..	*50	*60

Table 21

Production, trade and supply of gas oil/diesel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Congo	2015	219	204	..	..	..	423	87
	2016	168	176	..	..	..	344	69
	2017	214	76	..	..	..	290	57
	2018	214	76	..	..	..	290	55
Côte d'Ivoire	2015	1,169	..	204	66	-39	938	40
	2016	1,237	..	226	72	0	939	39
	2017	*1,222	..	180	69	..	*973	*40
	2018	1,241	..	184	74	..	983	39
Dem. Rep. of the Congo	2015	..	538	..	..	..	538	7
	2016	..	362	..	..	..	362	5
	2017	..	419	..	..	..	419	5
	2018	..	394	..	..	..	394	5
Djibouti	2015	..	79	..	*10	*-7	76	84
	2016	..	85	..	*10	*9	66	71
	2017	..	80	..	*10	*6	64	67
	2018	..	*80	..	*10	*10	*60	*63
Egypt	2015	7,885	6,859	..	42	..	14,702	159
	2016	7,183	7,591	..	31	..	14,743	156
	2017	7,403	7,468	..	30	..	14,841	154
	2018	7,640	6,533	713	62	..	13,398	136
Equatorial Guinea	2015	..	*171	..	..	..	*171	*146
	2016	..	*174	..	..	..	*174	*143
	2017	..	*181	..	..	..	*181	*143
	2018	..	*149	..	..	..	*149	*114
Eritrea	2015	..	83	..	..	..	83	25
	2016	..	85	..	..	..	85	25
	2017	..	107	..	..	..	107	31
	2018	..	112	..	..	..	112	32
Eswatini	2015	..	122	..	..	..	122	111
	2016	..	141	..	..	..	141	127
	2017	..	142	..	..	..	142	127
	2018	..	148	..	..	..	148	130
Ethiopia	2015	..	1,931	..	..	18	1,913	19
	2016	..	2,235	..	..	-4	2,239	22
	2017	..	2,513	..	..	..	2,513	24
	2018	..	2,684	..	..	..	2,684	25
Gabon	2015	221	435	6	75	..	575	295
	2016	234	450	6	74	..	604	301
	2017	254	137	13	32	..	346	168
	2018	257	138	13	30	..	352	166
Gambia	2015	..	*75	*1	..	..	*74	*35
	2016	..	*76	*1	..	..	*75	*35
	2017	..	*77	*1	..	..	*76	*34
	2018	..	*78	*1	..	..	*77	*34
Ghana	2015	28	2,161	0	10	0	2,179	78
	2016	255	1,720	170	2	0	1,802	63
	2017	6	1,781	190	89	14	1,494	51
	2018	113	1,753	35	10	..	1,820	61
Guinea	2015	..	430	..	..	..	430	38
	2016	..	404	..	..	..	404	34
	2017	..	507	..	..	..	507	42
	2018	..	522	..	..	..	522	42

Table 21

Production, trade and supply of gas oil/diesel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Guinea-Bissau	2015	..	*45	..	..	..	*45	*26
	2016	..	*51	..	..	..	*51	*29
	2017	..	*51	..	..	..	*51	*28
	2018	..	*53	..	..	..	*53	*28
Kenya	2015	0	4,746	2,670	0	..	2,076	43
	2016	0	3,255	1,025	0	..	2,229	45
	2017	0	2,853	767	..	..	2,086	42
	2018	..	2,324	..	3	..	2,321	45
Lesotho	2015	..	85	..	..	..	85	41
	2016	..	88	..	..	..	88	43
	2017	..	82	..	..	..	82	39
	2018	..	87	..	..	..	87	41
Liberia	2015	..	203	..	*7	..	196	44
	2016	..	*263	..	*9	..	*254	*55
	2017	..	*230	..	*5	..	*225	*48
	2018	..	*197	..	*4	..	*193	*40
Libya	2015	1,003	3,215	..	..	..	4,218	657
	2016	917	2,161	..	..	..	3,078	474
	2017	1,332	2,044	..	..	..	3,376	513
	2018	1,563	1,816	..	..	..	3,379	506
Madagascar	2015	..	496	..	..	8	488	20
	2016	..	544	..	..	35	509	20
	2017	..	502	..	..	-46	548	21
	2018	..	456	..	..	-73	529	20
Malawi	2015	..	145	..	..	..	145	9
	2016	..	166	..	..	..	166	10
	2017	..	197	..	..	..	197	11
	2018	..	238	..	..	..	238	13
Mali	2015	..	*705	..	..	*-34	*739	*42
	2016	..	*780	..	..	*30	*750	*42
	2017	..	*820	..	..	*10	*810	*44
	2018	..	*850	..	..	*10	*840	*44
Mauritania	2015	..	*606	..	..	..	*606	*150
	2016	..	553	..	..	..	553	133
	2017	..	784	..	..	*52	732	171
	2018	..	1,033	..	..	*256	777	176
Mauritius	2015	..	319	..	116	-5	208	165
	2016	..	339	..	120	11	208	165
	2017	..	347	..	129	6	212	168
	2018	..	330	..	146	-31	215	169
Morocco	2015	1,139	4,112	0	23	-108	5,336	152
	2016	0	5,536	1	23	-131	5,643	158
	2017	..	5,771	..	23	-118	5,866	162
	2018	..	5,907	..	23	-201	6,085	166
Mozambique	2015	..	750	..	..	-20	770	28
	2016	..	1,282	..	..	18	1,264	45
	2017	..	1,467	..	..	18	1,449	51
	2018	..	1,004	6	8	..	990	34
Namibia	2015	..	773	..	..	..	773	334
	2016	..	807	..	..	..	807	342
	2017	..	819	..	..	..	819	341
	2018	..	776	..	..	..	776	317

Table 21

Production, trade and supply of gas oil/diesel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Niger	2015	348	32	*153	..	*18	209	10
	2016	352	11	202	..	*-92	252	12
	2017	*520	20	*253	..	*21	*265	*12
	2018	492	3	*221	..	*36	238	11
Nigeria	2015	294	3,781	..	116	..	3,959	22
	2016	685	3,833	..	97	..	4,421	24
	2017	900	3,651	..	98	..	4,453	23
	2018	374	9,916	..	103	..	10,187	52
Rwanda	2015	..	142	..	..	..	142	13
	2016	..	139	..	..	..	139	12
	2017	..	139	..	..	..	139	12
	2018	..	158	..	..	..	158	13
Sao Tome and Principe	2015	..	*26	..	..	..	*26	*129
	2016	..	*27	..	..	..	*27	*133
	2017	..	*28	..	..	..	*28	*136
	2018	..	*29	..	..	..	*29	*136
Senegal	2015	553	1,175	634	118	-6	982	67
	2016	629	1,056	676	134	-63	938	63
	2017	679	*489	84	113	0	971	63
	2018	576	1,002	*356	*130	*124	968	61
Seychelles	2015	..	205	..	*152	0	53	553
	2016	..	237	..	*153	*20	64	667
	2017	..	223	..	161	*10	53	546
	2018	..	202	..	*150	0	52	534
Sierra Leone	2015	..	*178	..	..	..	*178	*25
	2016	..	*183	..	..	..	*183	*25
	2017	..	*185	..	..	..	*185	*25
	2018	..	*168	..	..	..	*168	*22
Somalia	2015	..	*121	..	*15	..	*106	*8
	2016	..	*126	..	16	..	*110	*8
	2017	..	*126	..	*16	..	*110	*8
	2018	..	*126	..	*16	..	*110	*7
South Africa	2015	6,233	5,612	1,409	1,554	..	8,882	160
	2016	7,845	3,851	1,642	1,563	..	8,491	151
	2017	*5,861	5,253	1,553	751	..	8,811	155
	2018	5,417	5,311	1,603	1,310	..	7,815	135
South Sudan	2015	..	479	..	..	..	479	45
	2016	..	417	..	..	..	417	38
	2017	..	350	..	..	..	350	32
	2018	..	316	..	..	..	316	29
St. Helena and Depend.	2015	..	3	..	..	..	3	460
	2016	..	4	..	..	..	4	636
	2017	..	3	..	..	..	3	419
	2018	..	3	..	..	..	3	539
Sudan	2015	1,839	1,310	..	25	..	3,124	80
	2016	1,960	1,199	..	26	..	3,134	79
	2017	1,797	1,612	..	27	..	3,382	83
	2018	1,696	1,609	..	*28	..	3,276	78
Togo	2015	..	138	..	5	-5	138	19
	2016	..	83	..	..	-10	93	12
	2017	..	161	..	19	-15	157	20
	2018	..	173	..	..	-4	177	22

Table 21

Production, trade and supply of gas oil/diesel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Tunisia	2015	492	1,454	..	3	59	1,884	169
	2016	439	1,505	..	2	-19	1,961	173
	2017	314	1,731	..	7	-11	2,049	179
	2018	407	1,675	..	10	-36	2,108	182
Uganda	2015	..	703	..	..	..	703	18
	2016	..	746	..	..	..	746	19
	2017	..	823	..	..	..	823	20
	2018	..	855	..	..	..	855	20
United Rep. of Tanzania	2015	..	1,180	..	..	..	1,180	23
	2016	..	1,185	..	..	..	1,185	22
	2017	..	1,271	..	..	..	1,271	23
	2018	..	1,343	..	..	..	1,343	24
Zambia	2015	337	384	..	..	..	721	45
	2016	213	611	..	..	..	824	50
	2017	217	540	..	..	..	756	45
	2018	274	421	..	..	..	695	40
Zimbabwe	2015	..	736	..	..	..	736	53
	2016	..	619	..	..	..	619	44
	2017	..	642	..	..	..	642	45
	2018	..	777	..	..	..	777	54
America, North	2015	293,937	30,917	67,509	9,096	2,997	245,253	432
	2016	286,021	30,905	68,337	8,187	72	240,330	420
	2017	292,630	33,683	77,539	10,059	-3,270	241,985	419
	2018	294,255	38,272	71,178	8,891	-835	253,292	435
Anguilla	2015	..	*34	..	..	..	*34	*2,409
	2016	..	*34	..	..	..	*34	*2,383
	2017	..	*31	..	..	..	*31	*2,125
	2018	..	*32	..	..	..	*32	*2,171
Antigua and Barbuda	2015	..	*66	*1	..	..	*65	*695
	2016	..	*67	*1	..	..	*66	*698
	2017	..	*67	*1	..	..	*66	*692
	2018	..	*68	*1	..	..	*67	*696
Aruba	2015	..	*23	..	..	..	*23	*218
	2016	..	*23	..	..	..	*23	*216
	2017	..	*24	..	..	..	*24	*223
	2018	..	*24	..	..	..	*24	*224
Bahamas	2015	..	398	..	..	*-110	508	1,358
	2016	..	310	..	..	-193	503	1,331
	2017	..	334	..	..	*-144	478	1,252
	2018	..	403	..	..	*-117	520	1,348
Barbados	2015	..	67	..	..	0	67	233
	2016	..	68	..	..	0	68	237
	2017	..	73	..	..	-1	74	257
	2018	..	68	..	..	-6	74	260
Belize	2015	..	87	..	..	..	87	241
	2016	..	84	..	..	..	84	229
	2017	..	78	..	..	..	78	207
	2018	..	69	..	..	..	69	180
Bermuda	2015	..	23	..	..	*-8	31	495
	2016	..	24	..	..	-10	34	534
	2017	..	70	..	..	*15	55	872
	2018	..	37	..	..	0	37	591

Table 21

Production, trade and supply of gas oil/diesel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Bonaire, St Eustatius, Saba	2015	..	*67	..	*27	..	*41	*1,660
	2016	..	*68	..	*26	..	*42	*1,679
	2017	..	*69	..	*27	..	*43	*1,673
	2018	..	*70	..	*27	..	*43	*1,673
British Virgin Islands	2015	..	*50	..	..	..	*50	*1,715
	2016	..	*50	..	..	..	*50	*1,703
	2017	..	*40	..	..	..	*40	*1,363
	2018	..	*38	..	..	..	*38	*1,275
Canada	2015	30,535	1,905	6,774	79	-324	25,911	719
	2016	30,140	2,086	6,728	88	-273	25,683	706
	2017	32,909	1,079	8,027	87	156	25,718	700
	2018	30,704	2,164	6,397	85	121	26,265	708
Cayman Islands	2015	..	137	..	..	..	137	2,220
	2016	..	135	..	..	..	135	2,158
	2017	..	142	..	..	..	142	2,240
	2018	..	144	..	..	..	144	2,242
Costa Rica	2015	..	986	..	..	41	945	195
	2016	..	1,006	..	..	-22	1,028	210
	2017	..	1,045	..	..	15	1,030	208
	2018	..	1,014	..	..	-11	1,026	205
Cuba	2015	1,030	1,031	140	*32	..	1,889	167
	2016	558	1,277	*176	*31	..	1,629	144
	2017	714	1,378	*356	*29	..	1,707	151
	2018	703	1,178	*257	*30	..	1,595	141
Curaçao	2015	1,852	511	1,838	201	..	324	2,027
	2016	1,611	524	1,598	199	..	338	2,099
	2017	854	517	847	199	..	325	2,006
	2018	642	535	637	199	..	341	2,095
Dominica	2015	..	*29	..	..	*-1	*30	*421
	2016	..	*30	..	..	*-1	*31	*431
	2017	..	*29	..	..	*2	*27	*380
	2018	..	*29	..	..	*2	*27	*374
Dominican Republic	2015	214	1,215	..	..	-17	1,446	141
	2016	316	1,193	..	..	-22	1,532	147
	2017	274	1,072	..	..	28	1,318	125
	2018	356	1,094	..	..	0	1,450	136
El Salvador	2015	..	657	14	..	..	643	102
	2016	..	678	24	..	..	654	103
	2017	..	687	19	..	..	668	105
	2018	..	702	8	..	..	694	108
Greenland	2015	..	145	..	6	17	122	2,164
	2016	..	136	..	16	1	118	2,100
	2017	..	135	..	18	-2	120	2,122
	2018	..	*140	..	*18	0	*122	*2,157
Grenada	2015	..	49	..	..	-6	55	500
	2016	..	63	..	..	4	59	535
	2017	..	66	..	..	4	61	552
	2018	..	68	..	..	0	68	610
Guatemala	2015	39	1,715	110	371	37	1,235	76
	2016	43	1,750	67	393	25	1,307	79
	2017	47	1,685	18	412	-18	1,321	78
	2018	50	1,642	6	423	-93	1,357	79

Table 21

Production, trade and supply of gas oil/diesel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Haiti	2015	..	497	..	..	..	497	46
	2016	..	520	..	..	..	520	48
	2017	..	510	..	..	..	510	46
	2018	..	539	..	..	..	539	48
Honduras	2015	..	836	1	..	-90	925	102
	2016	..	938	3	..	38	897	97
	2017	..	928	1	..	74	853	90
	2018	..	946	42	..	13	891	93
Jamaica	2015	145	294	..	34	11	394	136
	2016	130	263	..	30	-17	380	131
	2017	108	250	..	51	12	295	101
	2018	102	316	39	44	-3	338	115
Mexico	2015	14,059	7,288	337	762	187	20,061	165
	2016	11,580	9,291	749	798	-301	19,625	159
	2017	11,165	12,680	192	712	-185	23,126	185
	2018	8,485	14,962	195	729	78	22,445	178
Montserrat	2015	..	12	..	*1	..	11	2,114
	2016	..	7	..	*1	..	6	1,185
	2017	..	6	..	*1	..	5	902
	2018	..	*6	..	*1	..	*5	*941
Nicaragua	2015	197	374	2	..	-31	600	96
	2016	137	476	0	..	8	605	96
	2017	169	461	0	..	-12	642	101
	2018	210	379	..	..	-2	592	92
Panama	2015	..	967	..	..	-211	1,177	297
	2016	..	1,100	..	..	-59	1,159	287
	2017	..	1,162	..	..	-204	1,366	333
	2018	..	1,171	..	..	-125	1,295	310
Sint Maarten (Dutch part)	2015	..	*165	..	*65	..	*100	*2,505
	2016	..	*166	..	*66	..	*101	*2,465
	2017	..	*162	..	*63	..	*99	*2,379
	2018	..	*158	..	*61	..	*96	*2,294
St. Kitts-Nevis	2015	..	*57	..	..	..	*57	*1,105
	2016	..	*58	..	..	..	*58	*1,125
	2017	..	*59	..	..	..	*59	*1,124
	2018	..	*59	..	..	..	*59	*1,129
St. Lucia	2015	..	*108	..	1	..	*107	*596
	2016	..	*110	..	1	..	*109	*607
	2017	..	*114	..	1	..	*113	*625
	2018	..	*116	..	1	..	*114	*629
St. Pierre-Miquelon	2015	..	*24	..	*6	..	*17	*2,875
	2016	..	*24	..	*6	..	*17	*2,921
	2017	..	*24	..	*6	..	*17	*2,957
	2018	..	*21	..	*5	..	*16	*2,772
St. Vincent-Grenadines	2015	..	36	..	..	*-8	44	402
	2016	..	48	..	..	*4	44	405
	2017	..	25	..	..	*-11	36	328
	2018	..	46	..	..	*5	41	370
Trinidad and Tobago	2015	1,550	..	772	201	5	572	417
	2016	2,113	..	1,279	334	7	493	358
	2017	1,468	..	771	201	-7	503	363
	2018	1,178	..	470	166	-4	546	393

Table 21

Production, trade and supply of gas oil/diesel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Turks and Caicos Islands	2015	..	*67	..	..	..	*67	*1,862
	2016	..	*70	..	..	..	*70	*1,901
	2017	..	*75	..	..	..	*75	*2,021
	2018	..	*77	..	..	..	*77	*2,031
United States	2015	244,317	10,998	57,520	7,309	3,504	186,982	583
	2016	239,393	8,229	57,712	6,198	883	182,829	566
	2017	244,921	8,607	67,307	8,252	-2,993	180,962	557
	2018	251,825	9,958	63,127	7,102	-692	192,246	588
America, South	2015	76,579	26,798	1,042	974	-1,239	102,601	249
	2016	76,468	30,145	1,616	639	1,935	102,423	246
	2017	72,412	31,949	1,996	527	973	100,865	240
	2018	74,052	31,048	3,005	831	-145	101,408	240
Argentina	2015	11,047	3,292	2	97	77	14,163	329
	2016	10,749	3,555	5	69	65	14,165	326
	2017	11,024	3,029	4	115	-9	13,943	317
	2018	10,424	2,685	33	134	11	12,931	291
Bolivia (Plur. State of)	2015	884	712	..	..	-46	1,642	151
	2016	814	804	..	..	-38	1,656	150
	2017	745	943	..	..	-61	1,749	156
	2018	724	1,059	..	..	-24	1,807	159
Brazil	2015	43,297	6,031	82	585	-321	48,982	240
	2016	42,840	7,360	420	303	217	49,260	239
	2017	39,056	11,259	439	158	97	49,621	239
	2018	41,052	10,124	830	412	-155	50,089	239
Chile	2015	3,031	5,229	79	0	-110	8,291	461
	2016	2,907	5,573	57	0	67	8,356	459
	2017	3,073	5,245	23	0	45	8,250	447
	2018	3,052	5,497	7	..	..	8,542	456
Colombia	2015	2,230	2,589	0	110	-1,770	6,479	136
	2016	4,574	3,356	699	112	562	6,557	136
	2017	5,702	1,412	873	86	601	5,554	114
	2018	7,116	614	1,582	90	34	6,024	121
Ecuador	2015	1,461	3,205	..	14	-14	4,666	288
	2016	1,907	2,443	..	16	-13	4,346	264
	2017	1,902	2,417	..	41	-11	4,289	255
	2018	1,820	2,703	..	56	7	4,460	261
Falkland Is. (Malvinas)	2015	..	7	..	..	..	7	2,615
	2016	..	7	..	..	..	7	2,540
	2017	..	7	..	..	..	7	2,393
	2018	..	8	..	..	..	8	2,407
Guyana	2015	..	268	..	..	-1	269	351
	2016	..	323	..	..	0	323	419
	2017	..	323	..	..	-6	329	424
	2018	..	348	..	..	-1	349	448
Paraguay	2015	..	1,279	..	..	27	1,252	187
	2016	..	1,519	..	..	61	1,458	215
	2017	..	1,551	..	..	-59	1,610	234
	2018	..	1,689	..	..	31	1,658	238
Peru	2015	4,091	2,681	156	..	935	5,681	186
	2016	3,786	3,596	370	..	1,054	5,958	193
	2017	3,569	3,793	536	..	354	6,472	206
	2018	3,324	3,695	459	12	-44	6,592	206

Table 21

Production, trade and supply of gas oil/diesel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Suriname	2015	20	245	4	1	..	261	466
	2016	200	220	65	16	..	338	599
	2017	284	225	121	7	..	380	667
	2018	291	220	94	6	..	411	714
Uruguay	2015	795	249	..	93	-17	967	284
	2016	814	76	..	62	-40	867	253
	2017	237	698	..	69	21	846	246
	2018	923	14	..	80	-4	861	250
Venezuela (Bolívar. Rep.)	2015	9,724	1,010	719	74	0	9,941	330
	2016	7,878	1,313	0	61	0	9,130	306
	2017	6,821	1,047	0	51	0	7,817	266
	2018	5,325	2,392	..	41	..	7,676	266
Asia	2015	597,143	103,177	155,394	7,262	2,226	535,438	121
	2016	603,892	109,343	179,676	7,916	-280	525,923	117
	2017	617,657	106,861	180,017	8,582	439	535,479	118
	2018	622,545	109,465	195,600	9,140	189	527,082	116
Afghanistan	2015	..	609	..	..	..	609	18
	2016	..	485	..	..	..	485	14
	2017	..	*338	..	..	..	*338	*9
	2018	..	373	..	..	..	373	10
Armenia	2015	..	122	0	..	..	121	42
	2016	..	119	0	..	..	119	41
	2017	..	135	0	..	..	135	46
	2018	..	115	..	..	..	115	39
Azerbaijan	2015	2,804	12	1,655	50	-52	1,163	121
	2016	2,315	4	1,228	48	6	1,037	107
	2017	1,849	1	603	44	-29	1,232	125
	2018	2,148	37	661	43	41	1,440	145
Bahrain	2015	4,210	..	3,885	..	-8	333	243
	2016	3,997	..	3,484	..	157	356	250
	2017	4,184	..	3,945	..	-141	380	254
	2018	4,083	..	3,599	..	123	361	230
Bangladesh	2015	462	2,975	..	..	41	3,396	22
	2016	380	3,130	..	..	-96	3,606	23
	2017	452	3,716	..	..	..	4,168	26
	2018	546	3,458	..	..	-831	4,836	30
Bhutan	2015	..	110	..	..	..	110	151
	2016	..	117	..	..	..	117	158
	2017	..	126	..	..	..	126	169
	2018	..	139	..	..	..	139	184
Brunei Darussalam	2015	141	168	0	9	6	294	709
	2016	114	156	0	0	-5	275	655
	2017	104	189	..	..	2	291	686
	2018	110	182	..	..	-1	293	683
Cambodia	2015	..	1,073	..	..	..	1,073	69
	2016	..	1,239	..	..	..	1,239	79
	2017	..	1,248	..	..	..	1,248	78
	2018	..	1,366	..	..	..	1,366	84
China	2015	180,079	428	7,163	437	-55	172,963	123
	2016	179,177	916	15,403	412	-2,883	167,161	118
	2017	186,679	747	17,193	504	442	169,288	119
	2018	183,601	711	18,532	375	90	165,316	116

Table 21

Production, trade and supply of gas oil/diesel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
China, Hong Kong SAR	2015	..	5,105	293	2,000	576	2,236	311
	2016	..	5,540	95	2,593	411	2,441	337
	2017	..	5,970	110	2,916	178	2,766	379
	2018	..	6,420	115	3,529	179	2,597	352
China, Macao SAR	2015	..	189	..	68	8	113	188
	2016	..	177	..	73	3	101	165
	2017	..	167	..	66	4	97	156
	2018	..	155	..	64	-2	93	147
Cyprus	2015	..	562	..	75	38	449	387
	2016	..	616	..	95	-10	531	454
	2017	..	786	..	101	9	676	573
	2018	..	769	..	118	-14	665	559
Georgia	2015	5	597	1	..	-4	605	150
	2016	9	658	0	..	16	651	162
	2017	10	575	11	..	-14	588	147
	2018	10	563	4	2	18	549	137
India	2015	98,643	180	24,035	..	..	74,788	57
	2016	103,147	996	27,452	..	..	76,691	58
	2017	108,466	1,353	29,676	..	..	80,143	60
	2018	111,236	555	27,931	..	..	83,860	62
Indonesia	2015	16,159	6,893	0	139	0	22,913	89
	2016	16,186	4,807	94	192	0	20,707	79
	2017	16,723	5,681	127	186	0	22,091	83
	2018	17,614	5,735	88	199	125	22,937	86
Iran (Islamic Rep. of)	2015	28,411	0	1,752	260	..	26,399	336
	2016	28,509	0	3,514	234	..	24,761	311
	2017	26,937	0	2,019	251	..	24,667	306
	2018	28,608	..	2,033	251	..	26,324	322
Iraq	2015	3,539	9,926	..	..	..	13,465	379
	2016	3,287	13,328	..	..	..	16,615	454
	2017	4,012	13,189	..	..	..	17,201	458
	2018	5,291	10,625	..	..	..	15,916	414
Israel	2015	5,187	206	2,693	34	-16	2,682	336
	2016	4,411	279	1,943	28	-21	2,740	338
	2017	4,628	321	2,014	42	105	2,788	338
	2018	4,789	248	2,161	43	26	2,807	335
Japan	2015	45,838	507	8,670	155	-284	37,804	295
	2016	45,595	399	8,138	188	197	37,471	293
	2017	45,632	516	8,502	169	-136	37,613	295
	2018	44,587	634	7,901	144	115	37,061	291
Jordan	2015	1,058	1,121	..	4	15	2,160	233
	2016	909	967	..	2	6	1,868	196
	2017	845	1,029	..	4	..	1,870	191
	2018	738	1,145	..	4	-31	1,910	192
Kazakhstan	2015	4,487	165	168	0	-351	4,835	275
	2016	4,652	434	55	1	-46	5,076	285
	2017	4,352	474	112	0	-183	4,897	271
	2018	4,664	472	237	2	2	4,895	267
Korea, Dem.Ppl's.Rep.	2015	191	61	..	..	..	252	10
	2016	191	71	..	..	..	262	10
	2017	191	59	..	..	..	250	10
	2018	191	58	..	..	..	249	10

Table 21

Production, trade and supply of gas oil/diesel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Korea, Republic of	2015	45,512	285	23,090	1,282	656	20,769	409
	2016	46,320	267	23,482	1,204	-287	22,188	435
	2017	47,108	271	23,561	1,288	-111	22,641	443
	2018	49,006	241	25,585	1,104	199	22,359	437
Kuwait	2015	10,294	..	8,101	101	..	2,092	545
	2016	9,425	..	7,025	92	..	2,308	583
	2017	8,476	..	5,924	83	..	2,469	609
	2018	8,397	..	5,787	82	..	2,528	611
Kyrgyzstan	2015	56	515	0	..	30	541	91
	2016	106	347	0	..	-28	481	79
	2017	89	541	2	..	9	619	100
	2018	79	706	1	..	34	750	119
Lao People's Dem. Rep.	2015	..	739	..	..	..	739	110
	2016	..	*750	..	..	..	*750	*110
	2017	..	*776	..	..	..	*776	*112
	2018	..	*792	..	..	..	*792	*112
Lebanon	2015	..	3,671	..	..	..	3,671	562
	2016	..	3,701	..	..	..	3,701	551
	2017	..	3,738	..	..	..	3,738	548
	2018	..	3,426	..	..	..	3,426	499
Malaysia	2015	9,737	4,488	5,301	2	-483	9,405	311
	2016	9,833	3,836	4,731	1	-100	9,037	295
	2017	9,725	5,087	5,054	91	-64	9,731	313
	2018	9,515	6,751	7,128	99	-802	9,841	312
Maldives	2015	..	390	..	*42	..	348	765
	2016	..	445	..	*47	..	398	837
	2017	..	448	..	*41	..	407	819
	2018	..	522	..	*50	..	472	914
Mongolia	2015	..	655	..	..	..	655	218
	2016	..	548	..	..	..	548	179
	2017	..	805	..	..	..	805	259
	2018	..	849	..	..	..	849	268
Myanmar	2015	161	2,227	..	2	495	1,891	36
	2016	150	2,869	..	..	178	2,841	54
	2017	151	2,095	..	..	82	2,164	41
	2018	103	4,055	..	1	..	4,157	77
Nepal	2015	..	649	..	..	..	649	24
	2016	..	1,091	..	..	..	1,091	40
	2017	..	1,313	..	..	..	1,313	48
	2018	..	1,421	..	..	..	1,421	51
Oman	2015	2,963	0	436	..	..	2,527	592
	2016	2,922	10	603	..	..	2,329	520
	2017	3,331	228	696	..	..	2,863	614
	2018	2,779	236	1,579	..	..	1,436	297
Other Asia	2015	13,874	73	8,997	91	125	4,734	201
	2016	13,650	0	8,895	92	-78	4,741	201
	2017	13,340	39	8,252	98	141	4,888	206
	2018	14,376	..	9,403	123	111	4,739	200
Pakistan	2015	4,587	3,495	..	5	295	7,782	39
	2016	4,783	4,739	..	9	207	9,306	46
	2017	5,501	4,486	..	6	72	9,909	48
	2018	5,232	3,097	0	6	..	8,323	39

Table 21

Production, trade and supply of gas oil/diesel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Philippines	2015	4,008	3,925	0	10	58	7,864	77
	2016	4,030	4,889	0	6	152	8,760	85
	2017	3,840	5,547	0	11	105	9,271	88
	2018	4,589	5,364	123	20	183	9,628	90
Qatar	2015	2,091	602	4,119	..	570	-1,996	-778
	2016	2,081	540	3,720	..	1,185	-2,284	-860
	2017	1,973	115	3,271	..	-949	-234	-86
	2018	1,975	75	2,435	..	-39	-346	-124
Saudi Arabia	2015	48,613	12,603	20,231	..	385	40,599	1,280
	2016	53,198	11,101	29,046	..	208	35,044	1,080
	2017	54,486	4,510	30,545	..	-189	28,640	865
	2018	54,156	9,894	41,760	..	..	22,290	661
Singapore	2015	12,829	14,419	22,812	1,722	18	2,697	482
	2016	12,199	15,478	24,855	1,991	233	597	106
	2017	10,967	14,321	25,422	2,021	141	-2,296	-402
	2018	9,185	13,054	23,972	2,286	..	-4,019	-698
Sri Lanka	2015	517	1,289	..	0	-256	2,061	99
	2016	583	1,574	..	0	-243	2,401	114
	2017	506	1,763	..	..	-95	2,364	112
	2018	568	1,483	..	13	-5	2,043	96
State of Palestine	2015	..	590	..	..	0	590	130
	2016	..	639	..	..	0	639	138
	2017	..	636	..	..	..	636	134
	2018	..	563	..	..	0	563	116
Syrian Arab Republic	2015	2,046	325	..	445	..	1,926	107
	2016	2,207	249	..	384	..	2,072	119
	2017	2,451	216	..	361	..	2,306	135
	2018	2,295	215	..	351	..	2,159	127
Tajikistan	2015	3	227	..	..	..	229	27
	2016	5	205	..	..	..	210	24
	2017	10	183	..	..	..	193	22
	2018	17	203	..	..	..	220	24
Thailand	2015	23,351	103	5,308	..	336	17,810	259
	2016	22,110	713	4,138	..	236	18,449	267
	2017	23,150	700	4,513	..	515	18,822	272
	2018	23,165	501	4,760	..	551	18,355	264
Timor-Leste	2015	..	*141	..	..	..	*141	*118
	2016	..	*139	..	..	..	*139	*114
	2017	..	*141	..	..	..	*141	*113
	2018	..	*143	..	..	..	*143	*113
Turkey	2015	8,721	12,516	73	112	60	20,992	267
	2016	9,725	12,861	72	81	227	22,206	278
	2017	10,545	14,373	233	72	176	24,437	301
	2018	9,530	14,719	120	90	-99	24,138	293
Turkmenistan	2015	2,770	..	690	..	..	2,080	374
	2016	2,770	..	690	..	..	2,080	367
	2017	2,770	..	690	..	..	2,080	361
	2018	2,770	..	690	..	..	2,080	356
United Arab Emirates	2015	9,194	2,350	5,455	155	..	5,934	641
	2016	10,865	684	9,561	89	..	1,899	203
	2017	10,427	204	7,015	177	451	2,988	315
	2018	10,929	603	8,421	93	..	3,017	313

Table 21

Production, trade and supply of gas oil/diesel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Uzbekistan	2015	1,286	..	..	..	35	1,251	40
	2016	1,008	..	..	..	-32	1,041	33
	2017	1,017	..	..	..	-25	1,042	33
	2018	1,081	..	..	..	17	1,064	33
Viet Nam	2015	3,068	5,213	466	..	-11	7,826	84
	2016	2,855	6,716	1,451	..	127	7,993	85
	2017	2,481	7,223	527	..	-56	9,233	98
	2018	4,286	6,325	573	..	201	9,837	103
Yemen	2015	250	680	..	62	..	868	33
	2016	189	514	..	54	..	649	24
	2017	250	483	..	51	..	682	25
	2018	297	470	..	49	..	718	25
Europe	2015	363,606	144,419	147,583	22,037	6,109	332,296	446
	2016	354,579	154,179	152,055	24,289	1,995	330,419	443
	2017	363,168	151,886	153,962	25,143	-5,087	341,037	456
	2018	357,324	144,019	141,014	20,336	-2,569	342,562	458
Albania	2015	56	785	56	20	20	745	258
	2016	18	743	4	34	16	707	245
	2017	158	723	19	36	16	810	281
	2018	104	665	40	31	16	682	237
Andorra	2015	..	131	..	..	..	131	1,678
	2016	..	132	..	..	..	132	1,711
	2017	..	131	..	..	..	131	1,707
	2018	..	138	..	..	..	138	1,797
Austria	2015	4,096	4,541	892	20	19	7,706	888
	2016	3,802	5,057	841	21	115	7,882	901
	2017	3,981	5,107	964	21	-61	8,164	926
	2018	4,053	5,065	1,008	13	-25	8,122	913
Belarus	2015	8,554	176	6,217	..	-53	2,566	272
	2016	6,768	693	4,850	..	-19	2,630	278
	2017	6,563	790	4,303	..	202	2,848	301
	2018	6,594	226	3,375	..	177	3,267	346
Belgium	2015	13,669	10,737	10,783	1,510	846	11,267	998
	2016	12,751	11,119	11,659	1,438	-313	11,086	976
	2017	13,267	10,629	12,310	1,053	-827	11,360	995
	2018	13,931	9,844	11,575	1,296	-118	11,022	960
Bosnia and Herzegovina	2015	410	597	3	..	17	987	288
	2016	381	795	1	..	18	1,157	342
	2017	366	807	11	..	12	1,150	343
	2018	300	839	23	..	-21	1,137	342
Bulgaria	2015	2,202	995	927	66	85	2,119	294
	2016	2,745	961	1,382	59	105	2,160	302
	2017	3,032	1,035	1,769	57	-17	2,258	318
	2018	2,545	807	959	57	-70	2,406	341
Croatia	2015	1,250	1,104	597	2	46	1,709	404
	2016	1,434	1,008	675	3	3	1,761	418
	2017	1,492	1,414	939	4	34	1,929	461
	2018	1,556	1,336	976	16	39	1,861	448
Czechia	2015	3,451	2,212	1,093	..	1	4,569	431
	2016	2,757	2,861	857	..	-12	4,773	449
	2017	3,679	2,087	898	..	-46	4,914	462
	2018	3,505	2,410	842	..	114	4,959	465

Table 21

Production, trade and supply of gas oil/diesel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Denmark	2015	4,490	3,716	2,573	435	437	4,761	837
	2016	4,897	3,784	2,816	411	-20	5,474	958
	2017	4,538	2,767	2,354	390	-331	4,892	853
	2018	4,687	2,431	1,719	370	-194	5,223	908
Estonia	2015	..	748	7	92	-9	658	500
	2016	..	802	4	111	33	654	497
	2017	..	789	..	112	32	645	489
	2018	..	902	74	157	-46	717	542
Faeroe Islands	2015	..	*136	..	6	..	*130	*2,715
	2016	..	*149	..	16	..	*133	*2,761
	2017	..	*168	..	16	..	*152	*3,142
	2018	..	*176	..	18	..	*157	*3,243
Finland	2015	5,708	1,791	2,910	44	85	4,460	814
	2016	6,395	1,923	3,813	41	-43	4,507	820
	2017	6,605	1,782	3,739	70	-261	4,839	878
	2018	6,254	1,556	3,587	57	-161	4,327	784
France	2015	28,457	24,763	2,792	131	462	49,835	748
	2016	27,901	22,423	2,064	106	246	47,908	716
	2017	27,905	21,965	2,592	110	-150	47,318	706
	2018	26,199	22,455	2,195	95	-395	46,759	696
Germany	2015	45,746	18,442	8,438	1,016	375	54,359	665
	2016	46,100	19,238	9,511	999	449	54,379	662
	2017	45,709	19,456	9,022	862	-255	55,536	672
	2018	43,143	18,549	8,219	734	-405	53,144	639
Gibraltar	2015	..	516	..	416	..	100	2,964
	2016	..	531	..	423	..	108	3,201
	2017	..	588	..	471	..	117	3,469
	2018	..	587	..	460	..	127	3,767
Greece	2015	10,554	998	6,563	305	177	4,507	423
	2016	10,892	1,133	7,363	309	-135	4,488	423
	2017	10,992	1,151	7,127	340	138	4,538	429
	2018	11,172	999	7,571	323	25	4,252	404
Hungary	2015	3,162	1,487	1,150	..	168	3,331	341
	2016	3,114	1,543	1,231	..	137	3,289	337
	2017	3,173	1,671	1,414	..	-20	3,450	355
	2018	3,303	2,279	1,939	..	-75	3,718	383
Iceland	2015	12	342	..	34	8	312	945
	2016	11	341	..	34	0	318	957
	2017	13	347	..	30	2	328	981
	2018	12	369	..	42	29	310	921
Ireland	2015	1,360	2,281	60	141	27	3,413	734
	2016	1,263	2,669	114	144	-36	3,710	790
	2017	1,301	2,844	187	138	61	3,759	791
	2018	1,146	2,931	99	142	-8	3,844	798
Italy	2015	33,288	3,010	8,923	227	13	27,135	448
	2016	31,806	4,412	9,324	268	-91	26,717	440
	2017	30,685	5,037	10,188	282	-232	25,484	420
	2018	30,373	5,347	8,982	482	-363	26,619	439
Kosovo	2015	..	385	..	..	..	385	215
	2016	..	424	..	..	..	424	239
	2017	..	462	..	..	..	462	258
	2018	..	494	..	..	..	494	275

Table 21

Production, trade and supply of gas oil/diesel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Latvia	2015	19	1,884	741	123	73	966	484
	2016	5	1,874	591	164	167	957	485
	2017	3	1,712	528	136	21	1,030	528
	2018	33	1,735	679	36	-19	1,072	556
Lithuania	2015	2,975	1,621	3,957	40	20	579	197
	2016	3,172	1,162	3,578	67	5	684	237
	2017	3,392	665	3,172	73	-55	867	305
	2018	3,481	521	2,726	83	48	1,145	409
Luxembourg	2015	..	1,890	1	..	-8	1,897	3,347
	2016	..	1,851	1	..	-4	1,854	3,201
	2017	..	1,917	1	..	-8	1,924	3,250
	2018	..	2,014	2	..	-6	2,018	3,339
Malta	2015	..	731	317	259	-10	165	381
	2016	..	677	249	262	14	152	349
	2017	..	630	69	314	88	159	363
	2018	..	643	194	360	-77	166	378
Montenegro	2015	..	186	0	..	2	184	293
	2016	..	223	0	..	9	214	341
	2017	..	252	..	..	14	238	379
	2018	..	259	..	..	1	258	411
Netherlands	2015	22,318	16,351	26,756	1,994	2,123	7,796	460
	2016	19,278	18,861	30,158	2,026	-469	6,424	378
	2017	19,439	16,818	29,299	2,083	-1,461	6,336	372
	2018	18,939	12,056	23,285	2,001	-718	6,427	377
North Macedonia	2015	0	619	89	..	6	524	252
	2016	0	654	39	..	12	603	290
	2017	0	661	39	..	-3	625	300
	2018	..	667	53	..	-7	621	298
Norway	2015	6,790	1,699	3,344	91	12	5,042	970
	2016	5,337	1,794	2,672	50	-196	4,605	877
	2017	7,287	1,717	4,241	122	-110	4,751	897
	2018	8,058	1,580	4,115	133	40	5,350	1,002
Poland	2015	12,299	2,061	1,790	144	-172	12,598	331
	2016	11,863	3,740	1,086	129	126	14,262	375
	2017	12,337	5,209	187	211	259	16,889	445
	2018	13,282	4,810	36	189	104	17,763	468
Portugal	2015	6,446	782	2,284	109	70	4,765	460
	2016	5,976	962	2,076	127	-102	4,837	468
	2017	6,218	893	2,079	130	-7	4,909	477
	2018	5,521	857	1,134	137	95	5,012	489
Republic of Moldova	2015	0	522	9	..	15	498	122
	2016	2	555	7	..	6	544	134
	2017	1	594	21	..	-4	578	142
	2018	2	610	24	..	..	588	145
Romania	2015	5,116	1,216	1,609	44	5	4,674	235
	2016	5,437	1,232	1,690	31	53	4,895	247
	2017	5,655	1,366	1,547	28	28	5,418	276
	2018	5,656	1,457	1,586	18	-129	5,638	289
Russian Federation	2015	76,004	107	*33,547	10,630	-284	32,218	222
	2016	76,249	82	*34,115	12,977	348	28,891	199
	2017	80,090	143	*33,684	14,375	45	32,129	221
	2018	77,464	57	*33,468	*9,645	212	34,196	235

Table 21

Production, trade and supply of gas oil/diesel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Serbia	2015	1,279	430	122	24	8	1,555	219
	2016	1,322	448	128	20	14	1,608	227
	2017	1,401	527	220	14	0	1,695	241
	2018	1,572	459	233	17	33	1,748	250
Slovakia	2015	3,120	798	2,361	..	63	1,494	275
	2016	2,997	834	2,198	..	-32	1,665	306
	2017	3,006	1,048	2,064	..	-9	1,999	367
	2018	2,857	988	1,803	..	11	2,031	372
Slovenia	2015	26	2,639	1,090	..	-14	1,589	767
	2016	16	2,997	1,349	..	-37	1,701	820
	2017	24	3,135	1,364	..	69	1,726	831
	2018	74	3,151	1,449	19	-6	1,763	849
Spain	2015	28,358	4,644	5,403	1,660	993	24,946	534
	2016	27,749	4,790	5,381	1,560	-278	25,876	555
	2017	28,426	5,085	6,578	1,271	-503	26,165	561
	2018	28,846	4,748	6,140	1,249	-61	26,266	563
Sweden	2015	8,741	2,578	5,556	774	473	4,516	462
	2016	8,310	3,089	5,314	684	1,003	4,398	447
	2017	9,032	2,910	6,938	723	-1,320	5,601	565
	2018	9,646	2,262	6,361	523	-102	5,126	514
Switzerland	2015	1,581	4,066	24	6	-184	5,801	696
	2016	1,766	3,803	30	5	152	5,382	639
	2017	1,786	3,814	28	4	-89	5,657	666
	2018	1,939	2,902	29	3	-363	5,172	604
Ukraine	2015	786	4,835	0	..	11	5,610	125
	2016	929	5,125	0	..	612	5,442	122
	2017	680	5,422	193	..	-359	6,268	141
	2018	0	5,594	214	..	-137	5,517	125
United Kingdom	2015	21,283	14,867	4,599	1,674	183	29,694	451
	2016	21,136	16,685	4,884	1,770	139	31,028	468
	2017	20,932	15,619	3,875	1,667	21	30,988	464
	2018	21,078	16,245	4,299	1,630	-6	31,400	468
Oceania	2015	12,061	14,998	224	188	234	26,413	663
	2016	10,076	17,428	184	173	220	26,927	666
	2017	9,764	17,988	238	172	-212	27,553	672
	2018	10,043	19,945	215	181	293	29,298	705
Australia	2015	9,654	12,444	64	55	225	21,754	909
	2016	7,579	14,896	44	46	217	22,168	914
	2017	7,279	15,418	89	47	-173	22,734	925
	2018	7,707	16,993	73	54	306	24,267	975
Cook Islands	2015	..	*14	..	..	..	*14	*785
	2016	..	*14	..	..	..	*14	*822
	2017	..	*16	..	..	..	*16	*885
	2018	..	*16	..	..	..	*16	*885
Fiji	2015	..	421	139	*45	..	237	273
	2016	..	375	140	*50	..	186	213
	2017	..	385	118	*55	..	212	242
	2018	..	*402	*142	*60	..	*201	*227
French Polynesia	2015	..	138	..	15	..	123	450
	2016	..	134	..	16	..	118	430
	2017	..	139	..	16	..	123	445
	2018	..	141	..	16	..	125	449

Table 21

Production, trade and supply of gas oil/diesel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Kiribati	2015	..	11	..	..	..	11	103
	2016	..	10	..	..	..	10	92
	2017	..	13	..	..	..	13	113
	2018	..	*13	..	..	..	*13	*113
Marshall Islands	2015	..	*35	..	..	..	*35	*609
	2016	..	*35	..	..	..	*35	*606
	2017	..	*36	..	..	..	*36	*615
	2018	..	*36	..	..	..	*36	*616
Micronesia (Fed. States of)	2015	..	30	..	3	..	27	243
	2016	..	*30	..	*3	..	*27	*240
	2017	..	*30	..	*3	..	*27	*238
	2018	..	*30	..	*3	..	*27	*236
Nauru	2015	..	*9	..	..	0	*9	*912
	2016	..	*10	..	..	0	*10	*923
	2017	..	*10	..	..	..	*10	*962
	2018	..	*10	..	..	..	*10	*928
New Caledonia	2015	..	319	..	8	8	304	1,120
	2016	..	286	..	4	-7	289	1,054
	2017	..	294	..	7	5	282	1,019
	2018	..	369	..	*9	*21	339	1,211
New Zealand	2015	2,150	735	21	57	12	2,795	606
	2016	1,949	1,033	0	48	38	2,896	622
	2017	1,942	979	31	38	-56	2,908	618
	2018	1,790	1,259	0	34	-46	3,061	645
Niue	2015	..	1	..	..	..	1	745
	2016	..	*1	..	..	..	*1	*683
	2017	..	*1	..	..	..	*1	*664
	2018	..	*1	..	..	..	*1	*714
Palau	2015	..	27	..	..	..	27	1,507
	2016	..	30	..	..	..	30	1,668
	2017	..	*29	..	..	..	*29	*1,628
	2018	..	*28	..	..	..	*28	*1,569
Papua New Guinea	2015	257	643	..	..	-17	916	113
	2016	548	403	..	..	-25	977	118
	2017	543	465	..	..	11	997	118
	2018	*546	*467	..	..	*11	*1,002	*116
Samoa	2015	..	50	0	..	*6	43	223
	2016	..	45	1	..	*-3	47	242
	2017	..	49	*1	..	*2	47	239
	2018	..	45	*1	..	*1	43	221
Solomon Islands	2015	..	80	..	*6	..	74	123
	2016	..	*78	..	*5	..	*73	*117
	2017	..	*77	..	*5	..	*72	*113
	2018	..	*79	..	*6	..	*73	*112
Tuvalu	2015	..	*2	..	..	..	*2	*175
	2016	..	*2	..	..	..	*2	*171
	2017	..	*2	..	..	..	*2	*201
	2018	..	*2	..	..	..	*2	*212
Vanuatu	2015	..	35	..	..	..	35	128
	2016	..	39	..	..	..	39	140
	2017	..	38	..	..	..	38	133
	2018	..	48	..	..	..	48	163

Table 21

Production, trade and supply of gas oil/diesel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Wallis and Futuna Is.	2015	..	6	..	..	..	6	515
	2016	..	7	..	..	..	7	554
	2017	..	7	..	..	..	7	550
	2018	..	7	..	..	..	7	577

Production, trade and supply of fuel oil

Thousand metric tons and kilograms per capita

Table Notes

Production includes output from refineries and plants.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description /classification, and xvi to xvii for the descriptions of relevant flows.

Figure 60: Production of fuel oil by region, 1990-2018

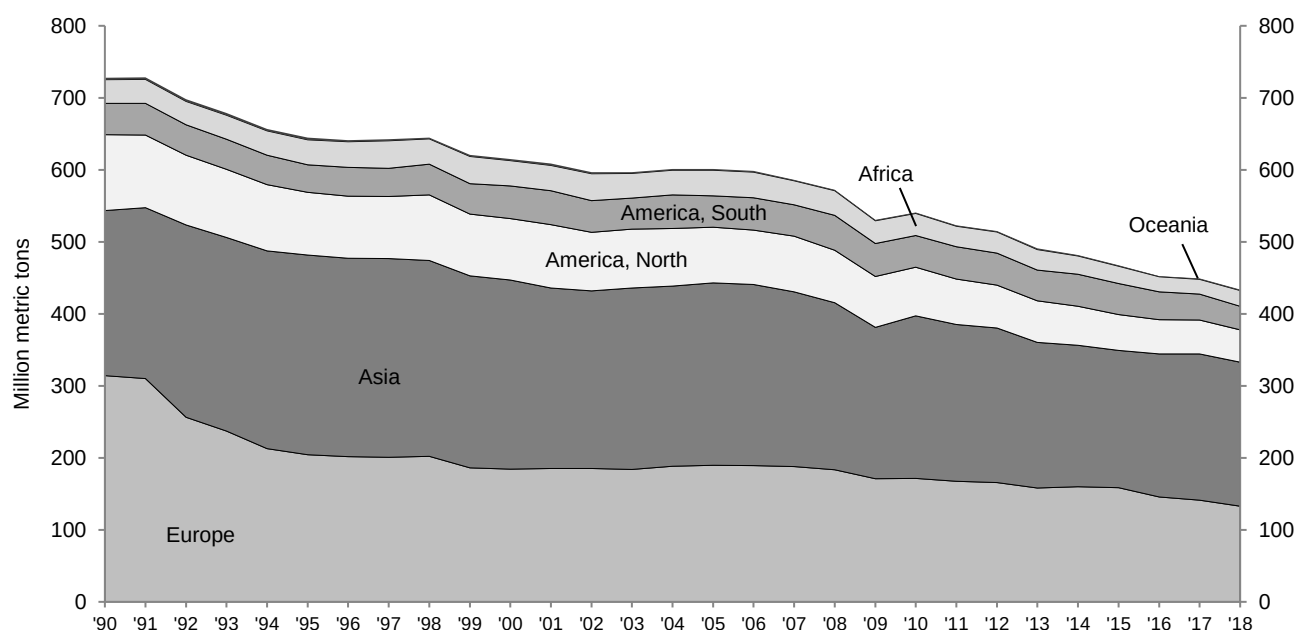


Figure 61: Major fuel oil producing countries, 2018

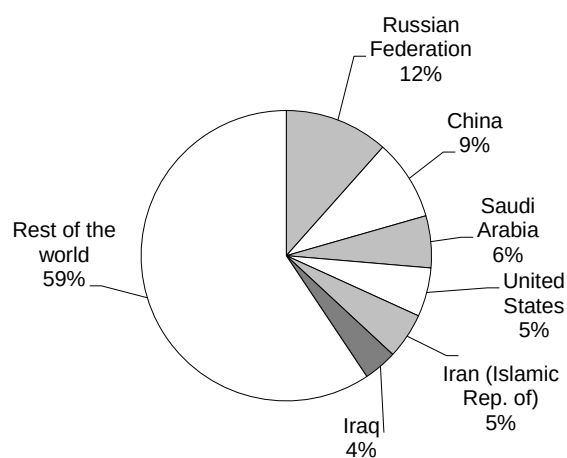


Figure 62: Major fuel oil consuming countries, 2018

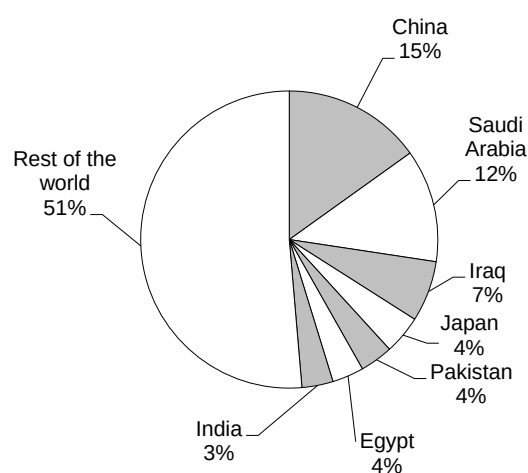


Table 22

Production, trade and supply of fuel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
World	2015	467,467	254,786	309,090	167,802	1,718	243,644	33
	2016	452,423	243,191	300,721	167,429	-4,227	231,691	31
	2017	449,266	232,415	286,722	174,393	-4,322	224,888	30
	2018	433,516	230,746	271,152	175,123	-5,271	223,258	29
Africa	2015	24,242	9,381	9,964	3,494	165	19,999	17
	2016	20,726	7,923	9,599	1,417	-95	17,729	15
	2017	20,419	8,149	9,623	1,801	-72	17,215	14
	2018	21,713	6,844	9,276	3,064	170	16,047	13
Algeria	2015	6,617	196	6,631	217	-35	0	0
	2016	6,870	146	6,940	182	-106	0	0
	2017	6,402	186	6,379	172	25	12	0
	2018	5,822	141	5,810	156	-21	18	0
Angola	2015	913	0	610	406	*32	-71	-3
	2016	971	0	541	360	*51	19	1
	2017	947	..	582	388	*50	-72	-2
	2018	614	..	377	252	*20	-35	-1
Benin	2015	..	27	0	..	0	27	3
	2016	..	5	..	1	-18	22	2
	2017	..	14	..	1	-9	22	2
	2018	..	25	..	..	-2	27	2
Botswana	2015	..	11	..	..	..	11	5
	2016	..	12	..	..	..	12	6
	2017	..	12	..	..	..	12	5
	2018	..	13	..	..	..	13	6
Burkina Faso	2015	..	213	..	..	*21	191	11
	2016	..	165	..	..	*21	144	8
	2017	..	224	..	..	*20	204	11
	2018	..	225	..	..	..	225	11
Burundi	2015	..	*10	..	..	..	*10	*1
	2016	..	*9	..	..	..	*9	*1
	2017	..	*24	..	..	..	*24	*2
	2018	..	*31	..	..	..	*31	*3
Cabo Verde	2015	..	*99	..	*39	..	*61	*115
	2016	..	*105	..	*40	..	*65	*123
	2017	..	*114	..	*43	..	*71	*133
	2018	..	*118	..	*44	..	*74	*136
Cameroon	2015	273	..	3	0	-4	274	12
	2016	270	..	149	0	..	121	5
	2017	222	..	98	0	..	124	5
	2018	201	..	74	..	..	127	5
Central African Rep.	2015	..	2	..	..	..	2	0
	2016	..	1	..	..	..	1	0
	2017	..	*2	..	..	..	*2	0
	2018	..	*2	..	..	..	*2	0
Chad	2015	*27	..	*24	..	..	*3	0
	2016	*24	..	*24	..	..	0	0
	2017	*24	..	*24	..	0	0	0
	2018	*24	..	*24	..	..	0	0
Congo	2015	329	7	325	..	..	11	2
	2016	325	26	325	..	..	26	5
	2017	358	16	343	..	..	31	6
	2018	358	16	348	..	..	26	5

Table 22

Production, trade and supply of fuel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Côte d'Ivoire	2015	311	..	124	6	-10	191	8
	2016	317	..	271	7	0	39	2
	2017	*313	..	*254	6	..	*53	*2
	2018	652	..	623	7	..	22	1
Dem. Rep. of the Congo	2015	..	16	..	..	..	16	0
	2016	..	22	..	..	..	22	0
	2017	..	16	..	..	..	16	0
	2018	..	14	..	..	..	14	0
Djibouti	2015	..	33	..	*9	24	0	0
	2016	..	15	..	*9	6	0	0
	2017	..	9	..	*9	0	0	0
	2018	..	*9	..	*9	..	0	0
Egypt	2015	7,899	3,798	..	139	..	11,558	125
	2016	7,567	2,302	..	21	..	9,848	104
	2017	7,354	1,422	..	158	..	8,618	89
	2018	7,444	498	234	27	..	7,681	78
Eritrea	2015	..	67	..	..	..	67	20
	2016	..	68	..	..	..	68	20
	2017	..	63	..	..	..	63	18
	2018	..	82	..	..	..	82	24
Eswatini	2015	..	*2	..	..	..	*2	*1
	2016	..	*1	..	..	..	*1	*1
	2017	..	0	..	..	..	0	0
	2018	..	0	..	..	..	0	0
Ethiopia	2015	..	71	..	..	..	71	1
	2016	..	38	..	..	..	38	0
	2017	..	43	..	..	..	43	0
	2018	..	46	..	..	..	46	0
Gabon	2015	395	..	219	109	..	67	34
	2016	418	..	241	107	..	70	35
	2017	396	..	189	84	..	123	60
	2018	397	..	190	84	..	123	58
Gambia	2015	..	*68	..	..	..	*68	*33
	2016	..	*69	..	..	..	*69	*32
	2017	..	*70	..	..	..	*70	*31
	2018	..	*70	..	..	..	*70	*31
Ghana	2015	9	0	0	..	0	9	0
	2016	64	390	70	..	0	384	13
	2017	1	249	53	..	0	197	7
	2018	32	112	42	..	..	102	3
Guinea	2015	..	72	..	..	..	72	6
	2016	..	162	..	..	..	162	14
	2017	..	158	..	..	..	158	13
	2018	..	374	..	..	..	374	30
Guinea-Bissau	2015	..	*32	..	..	..	*32	*18
	2016	..	*34	..	..	..	*34	*19
	2017	..	*34	..	..	..	*34	*18
	2018	..	*34	..	..	..	*34	*18
Kenya	2015	0	380	18	4	0	358	7
	2016	0	349	19	0	0	329	7
	2017	0	599	38	8	0	553	11
	2018	..	512	..	46	..	466	9

Table 22

Production, trade and supply of fuel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Libya	2015	1,767	0	318	83	..	1,366	213
	2016	1,827	0	427	85	..	1,315	203
	2017	1,673	0	336	220	..	1,117	170
	2018	1,847	..	215	281	..	1,351	202
Madagascar	2015	..	55	..	*3	-4	55	2
	2016	..	80	..	*9	*6	66	3
	2017	..	160	..	5	12	143	6
	2018	..	131	..	*5	-19	146	6
Malawi	2015	..	*2	..	..	..	*2	0
	2016	..	*2	..	..	..	*2	0
	2017	..	*2	..	..	..	*2	0
	2018	..	*2	..	..	..	*2	0
Mali	2015	..	*88	..	..	..	*88	*5
	2016	..	*89	..	..	..	*89	*5
	2017	..	*90	..	..	..	*90	*5
	2018	..	*92	..	..	..	*92	*5
Mauritania	2015	..	*255	..	..	..	*255	*63
	2016	..	171	..	..	..	171	41
	2017	..	330	..	..	..	330	77
	2018	..	402	..	..	*88	313	71
Mauritius	2015	..	445	..	167	8	270	214
	2016	..	490	..	217	7	265	210
	2017	..	649	..	341	27	281	222
	2018	..	663	..	436	-63	290	229
Morocco	2015	553	1,595	0	114	616	1,418	40
	2016	0	1,518	0	114	129	1,275	36
	2017	..	1,795	..	114	6	1,675	46
	2018	..	1,217	..	114	72	1,031	28
Namibia	2015	..	18	..	..	..	18	8
	2016	..	18	..	..	..	18	8
	2017	..	18	..	..	..	18	7
	2018	..	18	..	..	..	18	7
Niger	2015	..	2	..	..	..	2	0
	2016	..	6	..	..	..	6	0
	2017	..	*24	..	..	..	*24	*1
	2018	..	*10	..	..	..	*10	0
Nigeria	2015	406	64	92	259	-460	579	3
	2016	577	297	169	216	-187	676	4
	2017	994	297	511	218	-190	752	4
	2018	779	500	88	228	105	858	4
Rwanda	2015	..	*5	..	..	..	*5	0
	2016	..	5	..	..	..	5	0
	2017	..	*6	..	..	..	*6	0
	2018	..	*8	..	..	..	*8	*1
Senegal	2015	233	577	52	1	-6	763	52
	2016	266	624	56	3	-1	832	55
	2017	285	672	56	3	0	898	58
	2018	220	615	..	..	..	835	53
Seychelles	2015	..	85	..	*7	..	78	820
	2016	..	87	..	*7	..	80	837
	2017	..	95	..	*7	..	88	914
	2018	..	86	..	*6	..	80	820

Table 22

Production, trade and supply of fuel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Sierra Leone	2015	..	*32	..	..	..	*32	*5
	2016	..	*33	..	..	..	*33	*5
	2017	..	*35	..	..	..	*35	*5
	2018	..	*32	..	..	..	*32	*4
Somalia	2015	..	*39	..	*12	..	*27	*2
	2016	..	*39	..	*12	..	*27	*2
	2017	..	*39	..	*12	..	*27	*2
	2018	..	*39	..	*12	..	*27	*2
South Africa	2015	3,791	111	1,163	1,863	..	876	16
	2016	584	..	..	..	..	584	10
	2017	895	34	437	..	..	492	9
	2018	2,753	97	955	1,352	..	543	9
Sudan	2015	208	..	..	..	..	208	5
	2016	135	..	..	..	..	135	3
	2017	51	140	..	..	..	191	5
	2018	114	188	..	..	..	302	7
Togo	2015	..	49	..	..	-4	53	7
	2016	..	*185	..	..	..	*185	*25
	2017	..	*149	..	..	..	*149	*19
	2018	..	55	..	..	-2	57	7
Tunisia	2015	430	568	386	0	51	561	50
	2016	409	230	367	..	-4	276	24
	2017	327	222	323	..	-13	239	21
	2018	338	276	296	..	-8	326	28
Uganda	2015	..	46	..	..	..	46	1
	2016	..	*40	..	..	..	*40	*1
	2017	..	*95	..	..	..	*95	*2
	2018	..	75	..	..	..	75	2
United Rep. of Tanzania	2015	..	194	..	56	..	138	3
	2016	..	92	..	27	..	65	1
	2017	..	43	..	13	..	30	1
	2018	..	17	..	5	..	12	0
Zambia	2015	81	48	0	..	..	129	8
	2016	102	0	0	..	..	102	6
	2017	176	..	..	..	..	176	10
	2018	119	..	..	..	..	119	7
America, North	2015	50,001	25,979	33,750	16,045	906	25,278	45
	2016	47,767	27,088	31,508	20,767	-105	22,684	40
	2017	47,137	27,609	29,995	22,940	-1,462	23,273	40
	2018	44,910	28,465	30,500	22,404	-2,204	22,675	39
Antigua and Barbuda	2015	..	*40	..	*4	..	*36	*385
	2016	..	*41	..	*4	..	*37	*391
	2017	..	*41	..	*4	..	*37	*388
	2018	..	*42	..	*4	..	*38	*395
Aruba	2015	..	*207	..	*11	..	*196	*1,878
	2016	..	*202	..	*11	..	*191	*1,821
	2017	..	*201	..	*11	..	*190	*1,803
	2018	..	195	..	*12	..	183	1,729
Bahamas	2015	..	105	..	*90	..	15	40
	2016	..	35	..	*25	..	10	26
	2017	..	84	..	*71	..	13	34
	2018	..	72	..	*60	..	12	31

Table 22

Production, trade and supply of fuel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Barbados	2015	..	224	..	..	17	207	725
	2016	..	228	..	..	17	210	736
	2017	..	180	..	..	15	165	577
	2018	..	195	..	..	2	193	675
Belize	2015	..	*4	..	..	..	*4	*12
	2016	..	4	..	..	..	4	11
	2017	..	6	..	..	..	6	17
	2018	..	9	..	..	..	9	23
Bermuda	2015	..	102	..	*7	..	95	1,499
	2016	..	101	..	*10	..	91	1,433
	2017	..	122	..	*11	..	112	1,770
	2018	..	135	..	*11	..	124	1,969
Bonaire, St Eustatius, Saba	2015	..	*238	..	*190	..	*48	*1,933
	2016	..	*242	..	*192	..	*50	*1,999
	2017	..	*248	..	*196	..	*52	*2,063
	2018	..	*248	..	*196	..	*52	*2,003
Canada	2015	4,738	647	3,162	142	14	2,067	57
	2016	4,115	780	3,023	245	-180	1,807	50
	2017	4,739	843	2,952	298	44	2,288	62
	2018	5,196	598	3,701	378	-29	1,744	47
Costa Rica	2015	..	130	1	..	-4	134	28
	2016	..	139	..	..	-18	156	32
	2017	..	123	..	..	-1	123	25
	2018	..	130	..	..	-28	157	31
Cuba	2015	2,233	1,253	..	633	..	2,852	252
	2016	1,032	1,213	..	609	..	1,636	144
	2017	1,255	1,166	..	*440	..	1,980	175
	2018	1,313	912	..	*404	..	1,821	161
Curaçao	2015	3,275	1,699	3,189	1,416	..	369	2,308
	2016	2,996	1,685	2,917	1,402	..	362	2,248
	2017	1,447	1,669	1,409	1,404	..	303	1,871
	2018	1,088	1,621	1,059	1,400	..	250	1,536
Dominica	2015	..	*16	..	*1	..	*15	*212
	2016	..	*16	..	*1	..	*14	*203
	2017	..	*14	..	*1	..	*13	*183
	2018	..	*14	..	*1	..	*13	*185
Dominican Republic	2015	234	1,407	..	..	9	1,632	159
	2016	310	1,564	..	..	6	1,868	180
	2017	254	1,401	..	..	4	1,650	157
	2018	372	1,424	..	..	-1	1,797	169
El Salvador	2015	0	571	..	..	..	571	90
	2016	0	592	..	..	..	592	93
	2017	..	343	..	..	..	343	54
	2018	..	283	..	..	..	283	44
Greenland	2015	..	13	..	1	1	11	195
	2016	..	12	..	1	0	11	195
	2017	..	14	..	2	0	12	217
	2018	..	*14	..	*2	0	*13	*221
Guatemala	2015	..	533	2	..	-13	543	33
	2016	..	486	5	..	29	451	27
	2017	..	283	5	..	-5	284	17
	2018	..	242	9	..	-21	254	15

Table 22

Production, trade and supply of fuel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Haiti	2015	..	59	..	..	0	59	6
	2016	..	109	..	..	..	109	10
	2017	..	123	..	..	..	123	11
	2018	..	116	..	..	..	116	10
Honduras	2015	..	1,073	4	6	-80	1,143	125
	2016	..	964	17	35	-62	974	105
	2017	..	772	5	71	-1	697	74
	2018	..	999	1	73	88	837	87
Jamaica	2015	752	760	261	..	-5	1,256	434
	2016	677	873	260	..	-15	1,305	449
	2017	677	867	302	..	18	1,224	419
	2018	729	966	250	..	-15	1,460	497
Mexico	2015	13,500	965	7,049	77	-143	7,482	61
	2016	13,007	1,508	6,458	86	89	7,882	64
	2017	12,360	2,242	5,887	72	162	8,481	68
	2018	10,550	2,330	5,557	89	29	7,205	57
Nicaragua	2015	336	193	0	..	-9	538	86
	2016	330	195	0	..	8	517	82
	2017	318	142	10	..	-2	452	71
	2018	240	*242	10	..	22	450	70
Panama	2015	..	3,332	..	3,073	-244	503	127
	2016	..	3,789	..	3,538	-167	419	104
	2017	..	4,697	..	4,274	-114	537	131
	2018	..	4,308	..	4,130	-119	296	71
Sint Maarten (Dutch part)	2015	..	*263	..	*133	..	*130	*3,258
	2016	..	*266	..	*133	..	*133	*3,261
	2017	..	*258	..	*128	..	*130	*3,142
	2018	..	*245	..	*123	..	*122	*2,919
St. Lucia	2015	..	*6	..	*6	..	0	0
	2016	..	*6	..	*6	..	0	0
	2017	..	*7	..	*7	..	0	0
	2018	..	*7	..	*7	..	0	0
Trinidad and Tobago	2015	2,183	..	1,835	299	49	0	0
	2016	2,236	..	1,821	296	120	-1	-1
	2017	2,345	..	1,956	318	53	18	13
	2018	1,810	..	1,560	254	-4	0	0
United States	2015	22,751	12,139	18,248	9,956	1,314	5,372	17
	2016	23,064	12,039	17,007	14,173	68	3,855	12
	2017	23,742	11,764	17,470	15,634	-1,635	4,037	12
	2018	23,612	13,120	18,353	15,261	-2,128	5,246	16
America, South	2015	42,886	937	20,606	5,455	290	17,473	42
	2016	38,590	894	20,213	4,733	-459	14,997	36
	2017	36,027	1,067	19,688	4,834	-233	12,804	31
	2018	32,623	1,498	20,890	4,687	-561	9,105	22
Argentina	2015	4,606	0	24	818	-37	3,801	88
	2016	3,923	0	25	628	-55	3,325	76
	2017	2,993	0	370	687	104	1,832	42
	2018	1,878	*236	584	591	-13	952	21
Bolivia (Plur. State of)	2015	517	..	613	..	-9	-87	-8
	2016	121	..	367	..	-116	-130	-12
	2017	81	..	326	..	-149	-96	-9
	2018	38	..	180	..	-39	-103	-9

Table 22

Production, trade and supply of fuel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Brazil	2015	14,087	337	4,189	3,687	27	6,521	32
	2016	11,424	62	3,436	3,216	2	4,832	23
	2017	11,646	71	3,623	3,310	64	4,720	23
	2018	10,761	303	5,136	2,556	-213	3,585	17
Chile	2015	1,252	32	302	133	13	836	47
	2016	1,220	42	326	135	-15	816	45
	2017	1,170	26	290	142	54	710	38
	2018	1,149	27	391	136	2	647	35
Colombia	2015	3,459	8	2,454	186	..	827	17
	2016	3,934	0	2,748	217	..	969	20
	2017	3,283	9	2,396	177	..	719	15
	2018	3,048	2	1,919	43	..	1,088	22
Ecuador	2015	2,439	282	547	345	6	1,823	112
	2016	2,873	472	1,714	290	-1	1,343	81
	2017	2,968	634	2,288	332	-9	992	59
	2018	3,572	624	2,389	669	3	1,135	66
Guyana	2015	..	200	..	..	5	195	254
	2016	..	208	..	..	-1	209	271
	2017	..	204	..	..	2	202	261
	2018	..	216	..	..	1	215	276
Paraguay	2015	..	36	..	..	-8	44	7
	2016	..	46	..	..	-1	47	7
	2017	..	5	..	..	1	5	1
	2018	..	4	..	..	0	4	1
Peru	2015	1,972	0	773	..	331	868	28
	2016	2,432	23	1,884	..	-281	852	28
	2017	3,258	23	2,615	..	-233	899	29
	2018	3,019	0	2,239	502	-301	579	18
Suriname	2015	405	33	410	37	..	-8	-15
	2016	296	30	383	37	..	-93	-165
	2017	321	31	257	36	..	58	102
	2018	298	30	270	32	..	26	45
Uruguay	2015	313	8	..	83	-38	276	81
	2016	334	11	..	73	9	263	77
	2017	105	63	..	34	-66	200	58
	2018	242	56	..	64	0	235	68
Venezuela (Bolivar. Rep.)	2015	13,836	0	11,293	166	..	2,377	79
	2016	12,032	0	9,330	138	..	2,564	86
	2017	10,201	0	7,523	116	..	2,562	87
	2018	8,618	..	7,782	94	..	742	26
Asia	2015	190,631	146,759	91,563	100,342	294	145,192	33
	2016	198,385	137,697	100,939	99,184	-2,348	138,307	31
	2017	203,417	143,276	111,140	102,712	-166	133,008	29
	2018	200,021	142,231	104,050	102,003	-2,450	138,649	30
Afghanistan	2015	..	*1	..	..	..	*1	0
	2016	..	*1	..	..	..	*1	0
	2017	..	*1	..	..	..	*1	0
	2018	..	*1	..	..	..	*1	0
Azerbaijan	2015	324	135	113	..	-63	409	43
	2016	399	187	23	..	-118	681	70
	2017	236	198	12	..	83	339	34
	2018	107	..	19	..	46	42	4

Table 22

Production, trade and supply of fuel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Bahrain	2015	2,181	..	2,207	..	-26	0	0
	2016	2,484	..	2,443	..	41	0	0
	2017	2,750	..	2,777	..	-27	0	0
	2018	2,599	..	2,564	..	35	0	0
Bangladesh	2015	299	692	..	107	..	884	6
	2016	363	335	..	115	..	583	4
	2017	443	521	..	122	..	842	5
	2018	304	678	..	121	..	860	5
Bhutan	2015	..	1	..	..	..	1	2
	2016	..	1	..	..	..	1	2
	2017	..	2	..	..	..	2	2
	2018	..	3	..	..	..	3	4
Brunei Darussalam	2015	80	..	..	83	..	-3	-7
	2016	39	..	..	39	..	0	0
	2017	..	..	..	..	..	..	..
	2018	..	..	..	..	..	..	..
Cambodia	2015	..	71	..	..	..	71	5
	2016	..	139	..	..	..	139	9
	2017	..	78	..	..	..	78	5
	2018	..	85	..	..	..	85	5
China	2015	39,630	15,404	10,517	8,782	-37	35,773	25
	2016	42,369	11,744	9,856	9,251	-64	35,070	25
	2017	45,635	13,568	11,089	9,663	662	37,789	27
	2018	38,997	16,656	12,300	10,489	-874	33,739	24
China, Hong Kong SAR	2015	..	7,776	401	6,771	604	0	0
	2016	..	7,251	264	6,529	458	0	0
	2017	..	7,958	168	8,042	-251	-1	0
	2018	..	7,303	90	7,502	-348	59	8
China, Macao SAR	2015	..	159	..	..	15	144	239
	2016	..	148	..	..	-3	151	246
	2017	..	128	..	..	8	120	193
	2018	..	37	..	..	..	37	58
Cyprus	2015	..	1,053	..	169	14	870	749
	2016	..	1,095	..	193	-4	906	774
	2017	..	980	..	154	18	808	685
	2018	..	1,016	..	154	19	843	709
Georgia	2015	5	107	109	..	1	1	0
	2016	8	44	19	..	-23	57	14
	2017	9	87	32	..	1	63	16
	2018	9	89	95	..	-1	3	1
India	2015	9,727	1,194	2,806	1,406	..	6,709	5
	2016	9,962	956	2,248	1,506	..	7,164	5
	2017	9,486	1,273	2,492	1,578	..	6,689	5
	2018	10,032	1,419	2,197	*1,685	..	7,569	6
Indonesia	2015	1,224	463	329	138	0	1,220	5
	2016	1,305	719	342	137	0	1,545	6
	2017	1,027	643	262	144	0	1,264	5
	2018	1,258	493	176	0	2	1,573	6
Iran (Islamic Rep. of)	2015	22,311	..	9,557	4,603	..	8,151	104
	2016	21,964	..	15,817	1,826	..	4,321	54
	2017	19,707	..	15,843	1,179	..	2,685	33
	2018	22,136	..	15,955	1,179	..	5,002	61

Table 22

Production, trade and supply of fuel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Iraq	2015	11,964	..	454	224	..	11,286	317
	2016	12,774	..	330	284	..	12,160	332
	2017	14,573	..	3,658	286	..	10,629	283
	2018	16,182	..	1,098	291	..	14,793	385
Israel	2015	2,680	0	2,137	227	-3	319	40
	2016	2,715	0	2,369	128	-68	286	35
	2017	2,667	..	2,453	200	66	-52	-6
	2018	2,576	..	2,067	250	-4	263	31
Japan	2015	17,047	3,183	2,188	4,022	11	14,009	109
	2016	17,777	2,265	3,065	4,150	-31	12,858	101
	2017	15,340	2,164	2,411	3,983	-90	11,200	88
	2018	14,714	1,730	2,715	4,237	106	9,386	74
Jordan	2015	885	848	..	1	5	1,727	186
	2016	599	0	..	85	8	506	53
	2017	564	0	..	73	29	462	47
	2018	458	0	..	..	-2	460	46
Kazakhstan	2015	3,900	4	1,950	..	-119	2,073	118
	2016	3,100	0	*1,856	..	-26	1,270	71
	2017	3,365	..	*1,733	..	-1	1,633	90
	2018	2,948	66	3,002	..	16	-3	0
Korea, Dem.Ppl's.Rep.	2015	109	364	..	..	..	473	19
	2016	109	422	..	..	..	531	21
	2017	109	350	..	..	..	459	18
	2018	109	343	..	..	..	452	18
Korea, Republic of	2015	8,433	7,082	1,576	7,986	241	5,712	112
	2016	10,383	7,052	1,956	9,172	-352	6,659	131
	2017	9,874	5,952	2,463	8,743	240	4,380	86
	2018	10,200	6,589	4,036	8,275	49	4,429	87
Kuwait	2015	11,197	..	5,097	1,141	-574	5,533	1,443
	2016	10,002	..	4,540	1,019	-928	5,371	1,357
	2017	8,723	..	3,816	889	-1,341	5,359	1,321
	2018	8,642	..	3,699	880	-1,461	5,524	1,335
Kyrgyzstan	2015	136	206	0	..	59	283	47
	2016	75	33	0	..	-39	147	24
	2017	63	76	7	..	16	116	19
	2018	156	14	34	..	-36	172	27
Lao People's Dem. Rep.	2015	..	11	..	..	..	11	2
	2016	..	*11	..	..	..	*11	*2
	2017	..	*11	..	..	..	*11	*2
	2018	..	*11	..	..	..	*11	*2
Lebanon	2015	..	1,619	..	*30	..	1,589	243
	2016	..	1,732	..	*30	..	1,702	253
	2017	..	2,095	..	*30	..	2,065	303
	2018	..	2,048	..	30	..	2,018	294
Malaysia	2015	1,706	966	1,420	347	82	823	27
	2016	1,492	51	610	299	-39	673	22
	2017	1,739	228	622	300	11	1,034	33
	2018	2,452	103	1,375	321	526	333	11
Mongolia	2015	..	3	..	..	..	3	1
	2016	..	3	..	..	..	3	1
	2017	..	2	..	..	..	2	1
	2018	..	3	..	..	..	3	1

Table 22

Production, trade and supply of fuel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Myanmar	2015	61	..	..	..	11	50	1
	2016	67	..	..	..	18	49	1
	2017	78	..	..	..	34	44	1
	2018	35	..	..	..	..	35	1
Oman	2015	2,906	..	382	1,290	..	1,234	289
	2016	3,173	..	285	1,677	..	1,211	270
	2017	2,563	..	375	1,023	..	1,165	250
	2018	3,820	..	274	2,485	..	1,061	220
Other Asia	2015	5,970	1,015	954	998	-285	5,318	226
	2016	5,125	1,687	1,267	1,193	-102	4,454	189
	2017	4,953	2,464	1,543	1,103	-27	4,798	203
	2018	4,183	2,136	1,866	1,040	-188	3,601	152
Pakistan	2015	2,925	6,661	4	146	36	9,399	47
	2016	3,054	6,533	1	91	-153	9,648	47
	2017	3,303	4,247	..	39	*-153	7,664	37
	2018	3,398	4,646	..	35	0	8,009	38
Philippines	2015	957	1,530	446	18	-24	2,047	20
	2016	781	1,082	239	46	-37	1,615	16
	2017	977	1,046	433	90	26	1,474	14
	2018	737	792	259	67	-2	1,205	11
Qatar	2015	513	..	380	..	133	0	0
	2016	225	..	211	..	14	0	0
	2017	234	..	249	..	-14	-1	0
	2018	146	..	144	..	..	2	1
Saudi Arabia	2015	24,646	5,479	8,063	3,179	-16	18,899	596
	2016	25,425	7,542	8,785	3,453	-290	21,019	648
	2017	25,699	10,547	14,015	3,325	-19	18,925	572
	2018	25,106	16,772	10,791	3,518	159	27,410	813
Singapore	2015	2,077	72,443	29,979	43,433	792	316	57
	2016	4,279	71,052	31,812	46,624	-408	-2,697	-477
	2017	5,383	76,356	32,529	48,615	451	144	25
	2018	5,461	66,396	25,560	47,513	-749	-467	-81
Sri Lanka	2015	553	203	185	361	-708	918	44
	2016	479	350	56	594	-525	703	33
	2017	494	581	0	564	-121	632	30
	2018	424	553	26	603	-42	390	18
State of Palestine	2015	..	4	..	..	..	4	1
	2016	..	5	..	..	..	5	1
	2017	..	5	..	..	..	5	1
	2018	..	7	..	..	..	7	1
Syrian Arab Republic	2015	2,676	0	..	8	..	2,668	148
	2016	2,886	0	..	4	..	2,882	165
	2017	3,205	..	..	2	..	3,203	187
	2018	3,001	..	..	2	..	2,999	177
Tajikistan	2015	5	14	..	..	..	19	2
	2016	7	16	..	..	..	23	3
	2017	9	25	..	..	..	34	4
	2018	26	24	..	..	..	50	6
Thailand	2015	5,374	156	3,440	1,153	151	786	11
	2016	5,326	113	3,059	1,219	238	923	13
	2017	5,526	55	3,309	1,165	311	796	12
	2018	5,580	8	3,242	1,391	256	699	10

Table 22

Production, trade and supply of fuel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Turkey	2015	3,460	1,670	2,548	756	-22	1,848	24
	2016	2,835	1,707	1,652	812	90	1,988	25
	2017	2,987	2,105	1,495	794	-138	2,941	36
	2018	2,189	2,404	1,112	845	49	2,587	31
Turkmenistan	2015	1,690	..	759	..	..	931	167
	2016	1,690	..	759	..	..	931	164
	2017	1,690	..	759	..	..	931	162
	2018	1,690	..	759	..	..	931	159
United Arab Emirates	2015	2,604	14,597	3,080	*12,732	..	1,389	150
	2016	4,732	12,098	6,912	*8,442	..	1,476	158
	2017	9,608	*8,530	6,321	10,338	57	1,422	150
	2018	9,854	*8,601	8,201	8,751	..	1,502	156
Uzbekistan	2015	90	..	..	..	14	76	2
	2016	93	..	..	..	-9	102	3
	2017	112	..	..	..	1	110	3
	2018	143	74	..	..	-6	222	7
Viet Nam	2015	138	711	128	163	3	555	6
	2016	138	866	163	207	4	630	7
	2017	136	597	274	214	..	245	3
	2018	200	699	394	286	..	219	2
Yemen	2015	151	935	355	68	..	663	25
	2016	151	458	0	59	..	550	20
	2017	151	403	..	55	..	499	18
	2018	151	434	..	54	..	531	19
Europe	2015	158,549	70,312	152,955	41,691	136	34,080	46
	2016	145,842	68,128	138,115	40,570	-1,163	36,448	49
	2017	141,046	51,001	115,803	41,339	-2,450	37,353	50
	2018	132,877	49,931	106,012	42,164	-376	35,007	47
Albania	2015	0	1	..	..	..	1	0
	2016	1	0	..	..	..	1	0
	2017	0	0	..	..	..	0	0
	2018	..	1	..	..	..	1	1
Austria	2015	1,154	11	525	..	-67	707	81
	2016	898	16	576	..	-119	457	52
	2017	839	68	437	..	-71	541	61
	2018	710	65	467	..	-17	325	37
Belarus	2015	7,431	116	7,001	..	24	522	55
	2016	5,569	38	4,970	..	9	628	66
	2017	5,112	0	4,685	..	-2	429	45
	2018	5,352	..	4,652	..	274	426	45
Belgium	2015	5,306	3,892	4,727	4,485	134	-148	-13
	2016	5,349	4,079	4,183	5,443	83	-281	-25
	2017	7,488	4,988	6,284	6,715	-33	-490	-43
	2018	7,507	6,127	5,794	8,327	53	-540	-47
Bosnia and Herzegovina	2015	105	72	1	..	40	136	40
	2016	69	40	1	..	-13	121	36
	2017	81	56	2	..	..	135	40
	2018	57	52	3	..	..	106	32
Bulgaria	2015	1,654	79	1,625	21	-12	99	14
	2016	1,297	73	1,262	19	-7	96	13
	2017	974	58	900	24	-28	136	19
	2018	948	27	847	25	25	78	11

Table 22

Production, trade and supply of fuel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Croatia	2015	489	56	375	2	-49	217	51
	2016	601	46	451	2	29	165	39
	2017	577	48	520	3	-69	171	41
	2018	669	57	595	5	6	120	29
Czechia	2015	169	2	132	..	3	36	3
	2016	104	0	84	..	-22	42	4
	2017	169	..	149	..	-26	46	4
	2018	137	2	137	..	-32	34	3
Denmark	2015	1,702	3,873	4,552	335	285	403	71
	2016	1,771	3,412	4,527	258	-194	592	104
	2017	1,626	980	2,445	139	-483	505	88
	2018	1,870	1,796	2,843	221	-170	772	134
Estonia	2015	..	351	141	205	-8	13	10
	2016	..	371	176	167	3	25	19
	2017	..	441	216	207	20	-2	-2
	2018	..	474	329	140	4	1	1
Faeroe Islands	2015	..	*82	..	25	..	*57	*1,194
	2016	..	*77	..	16	..	*60	*1,249
	2017	..	*88	..	21	..	*67	*1,385
	2018	..	*89	..	21	..	*68	*1,398
Finland	2015	1,441	1,101	784	260	206	1,292	236
	2016	1,554	1,221	1,324	253	-104	1,302	237
	2017	1,614	902	1,190	288	21	1,017	185
	2018	1,543	449	1,165	276	64	487	88
France	2015	7,509	3,728	6,582	1,556	-129	3,228	48
	2016	7,686	4,203	5,827	1,410	-165	4,817	72
	2017	6,403	3,584	4,774	1,596	-82	3,699	55
	2018	5,853	3,422	4,895	1,807	-100	2,673	40
Germany	2015	7,953	1,923	3,034	1,421	-128	5,549	68
	2016	7,374	2,531	2,154	1,855	199	5,697	69
	2017	7,376	2,276	1,862	1,457	-8	6,341	77
	2018	7,296	2,143	2,657	981	17	5,784	70
Gibraltar	2015	..	3,412	..	3,358	..	54	1,600
	2016	..	3,463	..	3,412	..	51	1,512
	2017	..	3,842	..	3,799	..	43	1,275
	2018	..	3,762	..	3,711	..	51	1,513
Greece	2015	5,676	1,657	3,065	1,531	198	2,539	238
	2016	6,150	1,617	3,739	1,462	-98	2,664	251
	2017	7,028	1,745	4,300	1,864	105	2,504	237
	2018	6,551	1,725	3,852	1,936	-150	2,638	251
Hungary	2015	69	22	31	..	12	48	5
	2016	39	9	27	..	-20	41	4
	2017	78	20	50	..	-2	50	5
	2018	43	24	14	..	11	42	4
Iceland	2015	..	105	..	13	8	84	254
	2016	..	101	..	24	-1	78	235
	2017	..	102	..	31	2	69	206
	2018	..	119	..	34	3	82	244
Ireland	2015	1,167	121	1,173	14	1	100	21
	2016	1,070	60	1,060	11	-34	93	20
	2017	1,049	62	1,058	14	-14	53	11
	2018	976	60	1,002	16	-24	42	9

Table 22

Production, trade and supply of fuel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Italy	2015	7,706	339	4,071	1,707	-344	2,611	43
	2016	8,074	827	4,663	1,995	-144	2,387	39
	2017	8,511	847	5,258	2,075	-88	2,113	35
	2018	6,858	1,692	4,449	2,302	39	1,760	29
Kosovo	2015	..	33	..	..	..	33	18
	2016	..	22	..	..	..	22	12
	2017	..	26	..	..	..	26	15
	2018	..	21	..	..	..	21	12
Latvia	2015	..	135	15	134	-14	0	0
	2016	..	157	2	153	2	0	0
	2017	..	127	1	126	-1	1	1
	2018	..	4	..	2	-1	3	2
Lithuania	2015	1,561	49	1,484	37	-28	117	40
	2016	1,840	107	1,749	99	17	82	28
	2017	1,688	113	1,658	106	-29	66	23
	2018	1,681	129	1,640	122	-10	58	21
Luxembourg	2015	..	1	..	..	..	1	2
	2016	..	1	..	..	..	1	2
	2017	..	2	..	..	..	2	3
	2018	..	3	..	..	..	3	5
Malta	2015	..	1,765	215	1,330	-42	262	604
	2016	..	1,793	24	1,552	34	183	420
	2017	..	1,985	83	1,852	-3	53	121
	2018	..	2,109	161	1,923	20	5	11
Montenegro	2015	..	4	0	..	-1	5	8
	2016	..	4	0	..	1	3	5
	2017	..	4	..	..	2	2	3
	2018	..	4	..	..	2	2	3
Netherlands	2015	8,401	38,631	36,702	10,020	-12	322	19
	2016	11,961	31,645	31,729	9,901	-256	2,232	131
	2017	11,684	16,060	15,064	9,585	-1,057	4,152	244
	2018	11,077	13,047	11,314	9,213	-9	3,606	211
North Macedonia	2015	0	113	7	..	-1	108	52
	2016	0	97	5	..	2	91	44
	2017	0	79	3	..	-1	77	37
	2018	..	67	3	..	-3	67	32
Norway	2015	1,790	1,635	1,455	16	16	1,938	373
	2016	1,290	1,350	1,058	22	-1	1,561	297
	2017	1,545	1,888	1,432	26	-60	2,035	384
	2018	1,474	1,440	1,419	30	24	1,441	270
Poland	2015	3,869	2	2,743	47	10	1,071	28
	2016	3,609	47	2,514	53	2	1,087	29
	2017	3,436	38	2,471	53	18	932	25
	2018	3,630	48	2,774	78	-2	828	22
Portugal	2015	2,498	273	1,684	553	-74	608	59
	2016	2,675	223	1,710	661	-61	588	57
	2017	2,645	158	1,607	672	-16	540	52
	2018	2,358	443	1,307	699	229	566	55
Republic of Moldova	2015	11	6	5	..	-1	13	3
	2016	13	29	9	..	16	17	4
	2017	11	10	9	..	-3	15	4
	2018	6	7	3	..	..	10	2

Table 22

Production, trade and supply of fuel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Romania	2015	308	..	162	..	-30	176	9
	2016	218	..	168	..	-34	84	4
	2017	182	..	158	..	-17	41	2
	2018	196	..	124	..	10	62	3
Russian Federation	2015	75,957	1	*61,147	6,664	-581	8,728	60
	2016	61,426	2	*52,109	3,305	-124	6,138	42
	2017	56,018	12	*47,448	2,747	-159	5,994	41
	2018	50,147	0	*42,068	2,035	-181	6,224	43
Serbia	2015	355	28	60	..	-7	330	47
	2016	389	25	50	..	-7	371	52
	2017	380	9	55	..	10	324	46
	2018	361	7	28	..	2	338	48
Slovakia	2015	471	66	365	..	-33	205	38
	2016	470	142	339	..	35	238	44
	2017	363	133	307	..	-26	215	39
	2018	482	77	319	..	14	226	41
Slovenia	2015	..	260	192	65	..	3	1
	2016	..	436	311	124	..	1	0
	2017	..	409	252	157	..	0	0
	2018	..	442	232	210	..	0	0
Spain	2015	3,984	4,484	2,298	5,989	94	87	2
	2016	5,109	6,144	3,023	6,136	117	1,977	42
	2017	5,532	7,020	3,642	5,571	99	3,240	69
	2018	6,000	7,371	3,761	5,926	-199	3,883	83
Sweden	2015	3,867	689	2,851	1,069	642	-6	-1
	2016	4,003	2,057	4,547	1,348	-104	269	27
	2017	4,010	1,577	4,148	1,641	-459	257	26
	2018	5,150	1,799	4,362	1,316	-238	1,509	151
Switzerland	2015	314	0	325	..	-31	20	2
	2016	319	1	350	..	-39	9	1
	2017	290	..	274	..	9	7	1
	2018	316	..	304	..	11	1	0
Ukraine	2015	535	172	45	..	-13	675	15
	2016	590	380	3	..	-62	1,029	23
	2017	444	273	..	..	-24	741	17
	2018	429	42	..	..	3	468	11
United Kingdom	2015	5,097	1,022	3,381	834	68	1,836	28
	2016	4,324	1,282	3,391	889	-103	1,429	22
	2017	3,893	970	3,062	570	25	1,206	18
	2018	3,200	784	2,492	808	-52	736	11
Oceania	2015	1,157	1,418	252	776	-73	1,621	41
	2016	1,114	1,460	347	758	-58	1,526	38
	2017	1,220	1,314	472	767	60	1,234	30
	2018	1,372	1,777	424	801	149	1,774	43
Australia	2015	602	245	103	483	-29	290	12
	2016	516	312	171	490	-23	190	8
	2017	644	214	301	502	16	39	2
	2018	765	686	224	504	143	580	23
Cook Islands	2015	..	*4	..	*1	..	*2	*123
	2016	..	*4	..	*1	..	*2	*127
	2017	..	*4	..	*2	..	*2	*134
	2018	..	*4	..	*2	..	*2	*134

Table 22

Production, trade and supply of fuel oil

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Fiji	2015	..	72	21	..	..	51	58
	2016	..	78	15	..	-3	66	76
	2017	..	*92	*20	..	..	*71	*81
	2018	..	*100	*29	*5	..	*66	*75
French Polynesia	2015	..	69	..	..	..	69	252
	2016	..	67	..	..	..	67	245
	2017	..	65	..	..	..	65	236
	2018	..	67	..	..	..	67	242
Nauru	2015	..	*10	..	*4	..	*6	*530
	2016	..	*9	..	5	..	*4	*401
	2017	..	*9	..	*4	..	*5	*473
	2018	..	*9	..	*4	..	*5	*440
New Caledonia	2015	..	479	..	..	-17	496	1,830
	2016	..	501	..	..	-6	507	1,849
	2017	..	466	..	..	31	434	1,567
	2018	..	450	..	..	..	450	1,609
New Zealand	2015	485	0	128	273	0	84	18
	2016	463	0	161	248	-1	55	12
	2017	435	..	151	245	4	35	7
	2018	465	..	171	271	-3	26	5
Palau	2015	..	*32	..	..	..	*32	*1,783
	2016	..	*31	..	..	..	*31	*1,744
	2017	..	*32	..	..	..	*32	*1,797
	2018	..	*31	..	..	..	*31	*1,753
Papua New Guinea	2015	70	481	..	9	-27	569	70
	2016	135	429	..	9	-25	579	70
	2017	141	396	..	9	9	519	61
	2018	*142	*398	..	*9	*9	*521	*61
Tonga	2015	..	24	..	0	..	24	234
	2016	..	25	..	0	..	24	241
	2017	..	32	..	0	..	31	307
	2018	..	26	..	0	..	25	244
Vanuatu	2015	..	*4	..	*4	..	0	0
	2016	..	*4	..	*4	..	0	0
	2017	..	*5	..	*5	..	0	0
	2018	..	*6	..	*6	..	0	0

Production of minor oil products from refineries - by type

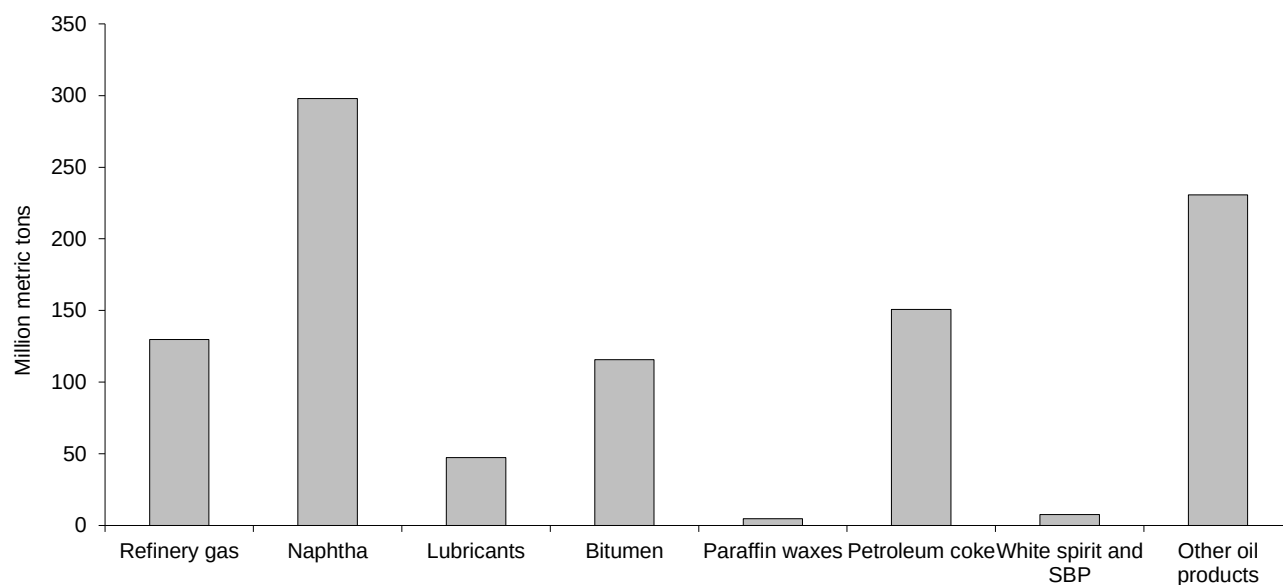
Thousand metric tons

Table Notes

Data refer to production from refineries of refinery gas, ethane, naphtha, lubricants, bitumen, paraffin waxes, petroleum coke, white spirit, and other oil products (which for this table includes refinery output of feedstocks).

Please refer to the Definitions Section on pages ix to xv for the appropriate product description /classification, and xvi to xvii for the descriptions of relevant flows.

Figure 63: Production of minor oil products from refineries, 2018*



*Ethane is included with other oil products

Table 23

Production of minor oil products from refineries - by type

Thousand metric tons

Country or area	Year	Refinery gas	Ethane	Naphtha	Lubricants	Bitumen	Paraffin waxes	Petroleum coke	White spirit and SBP	Other oil products
World	2015	130,535	3,082	272,167	37,308	111,230	3,092	129,553	7,572	176,516
	2016	129,797	2,119	281,399	37,163	114,419	3,487	144,234	8,783	184,234
	2017	125,496	1,650	293,240	42,093	115,792	4,618	145,937	9,294	204,190
	2018	129,798	2,055	297,868	47,484	115,746	4,684	150,692	7,719	228,611
Africa	2015	1,832	..	11,149	566	1,481	7	580	98	1,497
	2016	679	..	11,125	482	1,488	10	581	116	1,507
	2017	1,255	..	10,529	550	1,437	10	563	115	1,639
	2018	1,267	..	10,674	574	1,410	10	531	96	2,379
Algeria	2015	350	..	8,372	84	115	..	..	..	*180
	2016	..	..	7,929	*55	*144	..	..	..	*236
	2017	..	..	8,143	*73	*127	..	..	..	*184
	2018	..	..	7,634	*98	*115	..	..	..	*134
Angola	2015	*106	..	253	..	1	..	..	..	184
	2016	*79	..	305	..	3	..	..	..	200
	2017	74	..	278	..	16	..	..	..	162
	2018	53	..	244	..	12	..	..	..	207
Cameroon	2015	68	..	..	..	..	..	..	..	157
	2016	67	..	..	..	..	..	..	..	155
	2017	55	..	..	..	..	..	..	..	127
	2018	50	..	..	..	..	..	..	..	105
Chad	2015	..	..	..	*1	*1	..	*41	..	*16
	2016	..	..	..	*1	*1	..	*36	..	*14
	2017	..	..	..	*1	*1	..	*36	..	*14
	2018	..	..	..	*1	*1	..	*36	..	*14
Congo	2015	..	..	8	..	..	..	..	..	12
	2016	..	..	8	..	..	..	..	..	30
	2017	..	..	9	..	..	..	..	..	19
	2018	..	..	9	..	..	..	..	..	19
Côte d'Ivoire	2015	25	..	..	26	121	..	..	..	..
	2016	25	..	..	29	236	..	..	..	..
	2017	19	..	..	36	249	..	..	..	..
	2018	20	..	..	46	259	..	..	..	..
Egypt	2015	130	..	1,025	285	632	..	247	..	359
	2016	*125	..	1,790	*273	*605	..	*237	..	*343
	2017	136	..	450	297	658	..	257	..	373
	2018	130	..	737	286	633	..	248	..	1,352
Gabon	2015	..	..	..	10	2	..	..	..	..
	2016	..	..	..	11	2	..	..	..	..
	2017	..	..	..	10	2	..	..	..	..
	2018	..	..	..	11	2	..	..	..	..
Libya	2015	87	..	539	..	23	..	..	..	4
	2016	81	..	518	..	21	..	..	..	4
	2017	97	..	667	..	25	..	..	..	5
	2018	113	..	948	..	29	..	..	..	6
Morocco	2015	90	..	204	45	247	1	..	..	221
	2016	0	..	0	0	0	0	..	..	0
	2017	..	..	..	..	..	..	..	..	..
	2018	..	..	..	..	..	..	..	..	..
Nigeria	2015	52	..	29	..	0	..	8	..	310
	2016	77	..	82	..	7	..	9	..	475
	2017	102	..	342	..	0	..	12	..	720
	2018	98	..	158	..	5	..	16	..	492

Production of minor oil products from refineries - by type

Thousand metric tons

Country or area	Year	Refinery gas	Ethane	Naphtha	Lubricants	Bitumen	Paraffin waxes	Petroleum coke	White spirit and SBP	Other oil products
Senegal	2015	21	..	81	..	..	..	..	..	..
	2016	23	..	87	..	..	..	..	..	..
	2017	15	..	123	..	..	..	..	..	..
	2018	13	..	76	..	..	..	..	..	..
South Africa	2015	869	..	332	115	339	6	..	86	40
	2016	166	..	166	113	468	10	..	106	39
	2017	723	..	420	133	359	10	..	104	25
	2018	758	..	618	132	354	10	..	83	37
Sudan	2015	21	..	14	..	..	..	285	..	..
	2016	24	..	11	..	..	..	299	..	..
	2017	20	..	4	..	..	..	258	..	..
	2018	*20	..	9	..	..	..	231	..	..
Tunisia	2015	..	..	292	..	..	..	..	12	..
	2016	2	..	230	..	..	..	..	10	..
	2017	4	..	93	..	..	..	..	11	..
	2018	..	..	241	..	..	..	..	13	..
Zambia	2015	13	..	..	..	..	..	..	..	13
	2016	10	..	..	..	..	..	..	..	10
	2017	10	..	..	..	..	..	..	..	10
	2018	12	..	..	..	..	..	..	..	12
America, North	2015	22,186	107	15,568	10,599	25,879	249	62,443	1,632	15,079
	2016	22,224	72	15,760	9,839	25,706	246	64,526	1,568	15,349
	2017	20,568	116	13,009	10,451	26,079	245	62,754	1,742	15,779
	2018	20,524	128	13,656	10,838	25,942	237	62,075	2,228	16,579
Canada	2015	3,526	..	3,562	1,056	4,196	..	1,422	59	2,494
	2016	3,259	..	3,892	954	4,763	..	1,378	74	2,441
	2017	2,645	..	1,749	1,038	5,176	..	1,266	129	2,681
	2018	2,948	..	1,939	1,127	5,420	..	1,301	677	3,372
Cuba	2015	19	..	354	50	64	..	8	..	..
	2016	5	..	232	50	57	..	8	..	..
	2017	3	..	289	51	58	..	2	..	..
	2018	4	..	301	51	63	..	1	..	..
Curaçao	2015	221	..	359	103	121	..	95	..	499
	2016	169	..	353	103	121	..	152	..	304
	2017	99	..	98	60	71	..	89	..	178
	2018	48	..	74	29	34	..	43	..	86
Dominican Republic	2015	9	..	..	..	..	..	..	..	..
	2016	13	..	..	..	..	..	..	..	..
	2017	10	..	..	..	..	..	..	..	..
	2018	14	..	..	..	..	..	..	..	..
Guatemala	2015	..	..	..	..	27	..	..	..	..
	2016	..	..	..	..	14	..	..	..	..
	2017	..	..	..	..	38	..	..	..	..
	2018	..	..	..	..	97	..	..	..	..
Jamaica	2015	..	..	36	..	31	..	..	..	..
	2016	..	..	51	..	20	..	..	..	..
	2017	..	..	40	..	18	..	..	..	..
	2018	..	..	0	..	25	..	..	..	..
Mexico	2015	3,193	..	3,124	120	1,025	26	3,053	..	78
	2016	3,190	..	3,008	155	982	26	2,530	..	94
	2017	2,445	..	2,441	99	959	20	1,657	..	108
	2018	1,816	..	2,046	98	805	24	1,027	..	93

Table 23

Production of minor oil products from refineries - by type

Thousand metric tons

Country or area	Year	Refinery gas	Ethane	Naphtha	Lubricants	Bitumen	Paraffin waxes	Petroleum coke	White spirit and SBP	Other oil products
Nicaragua	2015	12	..	..	..	22	..	..	17	..
	2016	14	..	..	..	19	..	..	12	..
	2017	9	..	..	..	12	..	..	8	..
	2018	18	..	..	..	21	..	..	13	..
Trinidad and Tobago	2015	59	..	0	..	35	..	..	..	66
	2016	59	..	0	..	9	..	..	..	71
	2017	52	..	0	..	12	..	..	..	309
	2018	88	..	..	..	11	..	..	..	50
United States	2015	15,147	107	8,133	9,270	20,358	223	57,865	1,556	11,942
	2016	15,516	72	8,225	8,577	19,721	220	60,458	1,482	12,439
	2017	15,305	116	8,391	9,203	19,736	225	59,740	1,605	12,503
	2018	15,588	128	9,296	9,533	19,466	213	59,703	1,538	12,978
America, South	2015	8,179	..	6,626	1,175	3,654	63	9,424	623	8,426
	2016	7,651	..	5,923	1,116	3,490	60	9,893	621	8,676
	2017	7,653	..	6,017	1,181	3,121	56	9,881	514	7,557
	2018	7,443	..	6,147	1,284	3,174	53	9,621	490	6,554
Argentina	2015	1,066	..	921	241	403	11	1,337	287	..
	2016	1,051	..	764	238	334	9	1,406	301	..
	2017	1,017	..	727	219	242	8	1,478	230	..
	2018	1,072	..	400	225	396	7	1,511	201	..
Bolivia (Plur. State of)	2015	..	..	..	24	1	..	..	81	..
	2016	..	..	1	25	2	..	..	80	..
	2017	..	..	..	24	2	..	..	52	..
	2018	..	..	..	22	1	..	..	50	..
Brazil	2015	4,870	..	3,337	567	2,015	..	5,652	253	2,438
	2016	4,445	..	2,308	546	2,152	..	5,786	238	2,446
	2017	4,549	..	2,248	656	1,955	..	5,618	232	2,370
	2018	4,264	..	2,944	785	1,900	..	5,093	237	2,312
Chile	2015	201	..	121	..	..	..	504	..	722
	2016	203	..	48	..	..	..	365	..	744
	2017	211	..	75	..	..	..	446	..	579
	2018	215	..	64	..	..	..	443	..	608
Colombia	2015	189	..	137	143	443	37	..	..	276
	2016	263	..	814	141	345	37	583	..	1,362
	2017	275	..	1,070	142	279	37	681	..	1,035
	2018	290	..	1,164	139	263	37	953	..	439
Ecuador	2015	2	..	..	..	..	..	..	..	1,008
	2016	2	..	..	..	..	..	..	..	920
	2017	2	..	..	..	..	..	..	..	923
	2018	1	..	..	..	..	..	..	..	848
Peru	2015	149	..	..	..	..	..	..	..	262
	2016	137	..	..	..	..	..	..	..	239
	2017	151	..	..	..	..	..	..	..	274
	2018	168	..	..	..	..	..	..	..	264
Suriname	2015	..	..	..	..	5	..	..	..	..
	2016	..	..	..	..	5	..	..	..	..
	2017	..	..	..	..	5	..	..	..	..
	2018	..	..	..	..	4	..	..	..	..
Uruguay	2015	54	..	..	..	50	..	32	2	..
	2016	62	..	..	..	40	..	38	2	..
	2017	18	..	..	..	26	..	10	0	..
	2018	58	..	..	..	102	..	37	2	..

Table 23

Production of minor oil products from refineries - by type

Thousand metric tons

Country or area	Year	Refinery gas	Ethane	Naphtha	Lubricants	Bitumen	Paraffin waxes	Petroleum coke	White spirit and SBP	Other oil products
Venezuela (Bolivar. Rep.)	2015	1,648	..	2,110	200	737	15	1,899	..	3,720
	2016	1,488	..	1,988	166	612	14	1,715	..	2,965
	2017	1,430	..	1,897	140	612	11	1,648	..	2,376
	2018	1,374	..	1,575	113	507	9	1,584	..	2,083
Asia	2015	57,735	0	171,026	14,003	53,396	1,889	41,773	2,795	126,933
	2016	59,979	0	180,672	14,781	56,224	2,440	52,960	3,535	132,620
	2017	56,812	0	189,490	15,266	58,562	3,375	56,059	4,059	151,016
	2018	61,653	..	193,425	16,037	58,583	3,288	62,138	2,939	171,912
Azerbaijan	2015	216	..	193	26	172	..	255	..	350
	2016	231	..	174	10	179	..	207	..	384
	2017	214	..	169	39	237	..	227	..	594
	2018	214	..	205	52	290	..	244	..	615
Bahrain	2015	..	..	1,639	..	647	..	..	..	532
	2016	..	..	1,565	..	450	..	..	..	441
	2017	..	..	1,494	..	298	..	..	..	568
	2018	..	..	1,655	..	316	..	..	..	551
Bangladesh	2015	13	..	162	18	67	..	..	7	18
	2016	13	..	132	17	65	..	..	3	17
	2017	16	..	161	19	79	..	..	4	21
	2018	14	..	97	20	58	..	..	5	21
Brunei Darussalam	2015	14	..	..	..	..	..	..	..	..
	2016	10	..	..	..	..	..	..	..	..
	2017	3	..	..	..	..	..	..	..	..
	2018	18	..	..	..	..	..	..	..	..
China	2015	18,537	..	45,850	1,172	20,078	1,614	19,004	1,473	88,834
	2016	18,923	..	50,324	1,474	21,716	2,122	19,509	2,325	91,622
	2017	19,825	..	54,639	1,998	25,828	2,982	20,494	2,122	104,284
	2018	20,132	..	60,255	2,206	26,877	2,795	26,636	1,088	118,749
Georgia	2015	..	..	..	..	..	..	..	..	2
	2016	..	..	..	..	..	..	..	..	..
	2017	..	..	3	..	..	..	..	..	..
	2018	..	..	3	..	..	..	..	..	..
India	2015	*11,643	..	17,861	1,037	5,157	65	13,322	..	20,557
	2016	*12,268	..	17,607	1,029	5,185	85	*13,936	..	22,507
	2017	*9,825	..	18,786	1,036	5,277	104	14,754	..	26,210
	2018	*14,117	..	*18,536	949	5,803	*117	*14,676	..	*29,973
Indonesia	2015	632	..	1,406	365	171	19	338	18	3,684
	2016	655	..	1,371	282	192	20	436	26	2,689
	2017	673	..	1,565	344	112	16	497	26	4,195
	2018	690	..	1,666	390	164	19	554	27	4,096
Iran (Islamic Rep. of)	2015	1,898	0	3,226	1,718	5,578	..	..	149	242
	2016	1,951	0	3,505	1,738	6,046	..	..	396	826
	2017	1,581	0	3,000	1,761	4,837	..	..	541	753
	2018	1,545	..	3,030	1,720	4,662	..	..	528	761
Iraq	2015	133	..	439	45	276	1	..	..	..
	2016	137	..	480	45	88	1	..	..	..
	2017	164	..	571	52	140	110	..	..	..
	2018	192	..	442	53	143	112	..	..	..
Israel	2015	586	..	1,186	..	239	..	..	..	362
	2016	616	..	1,095	..	280	..	..	..	541
	2017	569	..	1,201	..	310	..	..	..	458
	2018	567	..	1,153	..	308	..	..	..	588

Table 23

Production of minor oil products from refineries - by type

Thousand metric tons

Country or area	Year	Refinery gas	Ethane	Naphtha	Lubricants	Bitumen	Paraffin waxes	Petroleum coke	White spirit and SBP	Other oil products
Japan	2015	7,220	..	13,986	2,107	3,264	60	1,164	75	2,204
	2016	7,157	..	14,656	2,201	3,249	58	1,267	74	2,327
	2017	7,111	..	13,175	1,958	3,051	64	1,320	72	2,222
	2018	7,030	..	12,385	2,181	2,854	70	1,345	71	2,192
Jordan	2015	*40	..	..	27	188	..	..	..	*3
	2016	*36	..	..	24	238	..	..	..	*4
	2017	*33	..	..	23	226	..	..	..	*4
	2018	42	..	..	19	127	..	..	..	*3
Kazakhstan	2015	111	..	..	..	600	..	256	..	..
	2016	111	..	..	..	605	..	311	..	..
	2017	161	..	..	..	809	..	474	..	..
	2018	177	..	..	..	926	..	530	..	..
Korea, Republic of	2015	4,499	..	29,404	2,649	4,647	14	360	355	2,588
	2016	4,566	..	31,503	2,569	5,064	16	372	388	2,834
	2017	3,831	..	35,356	2,747	5,185	18	404	506	2,856
	2018	4,365	..	36,933	3,307	4,489	15	408	456	2,737
Kuwait	2015	399	..	8,470	..	91	..	..	..	583
	2016	383	..	7,120	..	99	..	..	..	560
	2017	310	..	5,675	..	118	..	..	..	454
	2018	322	..	5,613	..	183	..	..	..	471
Kyrgyzstan	2015	..	..	..	..	..	..	..	..	..
	2016	..	..	..	..	..	..	..	..	..
	2017	..	..	..	..	..	..	..	..	..
	2018	..	..	..	..	35	..	..	..	..
Malaysia	2015	169	..	2,447	867	176	83	237	..	..
	2016	198	..	2,744	972	197	93	265	..	..
	2017	172	..	2,356	368	171	23	166	..	..
	2018	128	..	1,818	279	405	32	20	..	..
Myanmar	2015	24	..	..	..	..	1	12	..	5
	2016	..	..	..	..	..	1	13	..	5
	2017	..	..	..	..	..	0	12	..	5
	2018	..	..	..	..	..	..	10	..	*5
Oman	2015	115	..	485	46	..	..	..	..	245
	2016	93	..	482	46	..	..	..	..	192
	2017	124	..	939	62	..	..	..	..	357
	2018	149	..	1,375	75	..	..	..	..	1,068
Other Asia	2015	1,958	..	7,212	593	617	..	1,315	61	566
	2016	2,107	..	7,074	610	619	..	1,266	68	504
	2017	1,897	..	7,667	672	510	..	1,272	63	678
	2018	2,196	..	8,696	556	587	..	1,276	49	638
Pakistan	2015	176	..	914	208	233	*12	..	..	*34
	2016	190	..	767	192	223	*12	..	..	*35
	2017	..	..	781	180	*291	2	..	..	60
	2018	..	..	794	178	288	0	..	..	60
Philippines	2015	..	..	306	..	..	..	..	..	1,118
	2016	..	..	256	..	..	..	..	..	1,278
	2017	..	..	200	..	..	..	..	..	1,266
	2018	..	..	241	..	16	..	..	..	1,496
Qatar	2015	60	..	3,775	..	..	..	..	..	507
	2016	61	..	3,997	..	..	..	..	..	740
	2017	58	..	5,592	..	..	..	..	..	1,019
	2018	58	..	4,965	..	..	..	..	..	2,338

Table 23

Production of minor oil products from refineries - by type

Thousand metric tons

Country or area	Year	Refinery gas	Ethane	Naphtha	Lubricants	Bitumen	Paraffin waxes	Petroleum coke	White spirit and SBP	Other oil products
Saudi Arabia	2015	3,975	..	7,868	..	3,570	..	4,863	..	*388
	2016	4,291	..	8,669	..	3,016	..	14,477	..	*397
	2017	4,300	..	8,499	..	2,778	..	15,231	..	*610
	2018	4,248	..	6,877	..	2,326	..	15,299	..	1,307
Singapore	2015	2,633	..	1,856	2,847	2,893	12	114	192	391
	2016	3,155	..	3,667	3,162	3,432	20	137	232	699
	2017	3,251	..	4,494	3,230	2,945	28	245	705	1,035
	2018	3,107	..	2,898	3,110	2,871	76	232	677	410
Sri Lanka	2015	14	..	137	..	0	..	..	2	..
	2016	14	..	144	..	0	..	..	1	..
	2017	13	..	142	..	0	..	..	1	..
	2018	13	..	141	..	..	..	..	2	..
Syrian Arab Republic	2015	87	..	535	24	298	..	..	..	16
	2016	94	..	577	26	321	..	..	..	17
	2017	104	..	641	29	356	..	..	..	19
	2018	98	..	600	27	334	..	..	..	18
Tajikistan	2015	..	..	*12	..	2	..	..	..	..
	2016	..	..	*9	..	3	..	..	..	..
	2017	..	..	..	..	3	..	..	..	..
	2018	..	..	..	..	3	..	..	..	..
Thailand	2015	563	..	10,733	..	1,420	..	..	..	1,690
	2016	550	..	10,478	..	1,364	..	..	..	1,651
	2017	569	..	10,430	..	1,361	..	..	..	1,139
	2018	570	..	10,437	..	1,377	..	..	..	1,140
Turkey	2015	1,391	..	273	130	2,877	..	500	450	404
	2016	1,541	..	320	128	3,436	..	733	12	342
	2017	1,354	..	343	187	3,496	..	934	7	917
	2018	1,004	..	375	218	2,981	32	868	5	720
Turkmenistan	2015	130	..	..	..	..	..	..	..	370
	2016	120	..	..	..	..	..	..	..	370
	2017	112	..	..	..	..	..	..	..	370
	2018	106	..	..	..	..	..	..	..	370
United Arab Emirates	2015	411	..	10,432	*64	..	..	..	..	1,241
	2016	*422	..	11,782	181	..	..	..	..	1,620
	2017	447	..	11,407	477	..	..	..	..	779
	2018	437	..	11,963	578	..	..	..	..	1,332
Uzbekistan	2015	88	..	..	60	128	9	33	14	..
	2016	86	..	..	76	152	12	31	11	..
	2017	94	..	..	84	138	27	29	12	..
	2018	114	..	..	98	153	21	39	31	..
Viet Nam	2015	..	..	..	..	..	..	..	..	..
	2016	..	..	..	..	..	..	..	..	18
	2017	..	..	..	..	..	..	..	..	144
	2018	..	..	..	20	..	..	..	..	254
Yemen	2015	..	..	218	..	7	..	..	..	..
	2016	..	..	174	..	6	..	..	..	..
	2017	..	..	205	..	7	..	..	..	..
	2018	..	..	273	..	9	..	..	..	..
Europe	2015	39,420	2,975	67,220	10,965	26,599	884	14,862	2,353	24,361
	2016	38,255	2,047	67,069	10,945	27,195	731	15,850	2,867	25,853
	2017	38,188	1,534	73,357	14,644	26,391	932	16,306	2,798	28,033
	2018	37,854	1,927	73,134	18,751	26,473	1,096	16,006	1,894	31,099

Table 23

Production of minor oil products from refineries - by type

Thousand metric tons

Country or area	Year	Refinery gas	Ethane	Naphtha	Lubricants	Bitumen	Paraffin waxes	Petroleum coke	White spirit and SBP	Other oil products
Albania	2015	*12	..	26	..	83	..	19	..	92
	2016	*6	..	4	..	84	..	14	..	56
	2017	19	..	40	..	77	..	105	..	103
	2018	9	..	29	..	26	..	58	..	66
Austria	2015	282	..	941	0	290	..	60	..	19
	2016	218	..	961	0	333	..	71	..	26
	2017	262	..	804	..	306	..	59	..	27
	2018	281	..	1,028	..	369	..	71	..	21
Belarus	2015	757	..	..	..	637	..	..	..	1,029
	2016	632	..	..	..	677	..	..	..	806
	2017	617	..	..	..	852	..	..	..	1,028
	2018	709	..	..	..	781	..	..	..	1,245
Belgium	2015	816	..	2,262	0	1,095	..	334	..	4,676
	2016	860	..	2,443	..	1,271	..	315	..	3,903
	2017	916	..	2,319	..	395	..	305	..	3,698
	2018	824	..	2,611	..	..	..	400	..	2,488
Bosnia and Herzegovina	2015	..	..	10	56	162	..	..	..	*22
	2016	..	..	7	37	152	..	..	..	21
	2017	..	..	7	51	171	..	..	..	20
	2018	..	..	7	40	146	..	..	..	19
Bulgaria	2015	263	..	300	..	102	..	85	4	2
	2016	310	..	366	..	23	..	93	4	9
	2017	331	..	448	..	16	..	98	4	9
	2018	294	..	372	..	84	..	75	3	4
Croatia	2015	208	..	52	13	0	..	53	..	120
	2016	155	..	64	11	1	..	53	..	208
	2017	185	..	52	11	..	..	74	..	115
	2018	187	..	39	11	1	..	58	..	106
Czechia	2015	156	..	657	92	440	10	90	..	781
	2016	101	..	394	84	363	10	62	..	494
	2017	145	..	840	85	551	12	102	..	817
	2018	140	..	930	95	566	11	89	..	669
Denmark	2015	319	..	..	..	..	..	..	..	..
	2016	287	..	..	..	..	..	..	..	..
	2017	306	..	..	..	..	..	..	..	..
	2018	301	..	..	..	..	..	..	..	..
Finland	2015	508	..	220	257	248	..	114	123	..
	2016	592	..	133	308	231	..	128	116	..
	2017	573	..	103	296	139	..	117	130	5
	2018	586	..	70	305	225	..	100	140	38
France	2015	1,348	2	5,209	633	1,819	90	527	40	802
	2016	1,322	9	4,974	603	1,706	73	542	38	917
	2017	1,282	20	5,301	719	2,047	97	485	58	963
	2018	1,167	7	5,387	571	2,056	71	481	85	859
Germany	2015	3,839	..	7,978	2,477	3,525	142	1,886	2	1,099
	2016	3,937	..	7,860	2,367	4,065	122	1,887	1	1,190
	2017	4,051	..	7,635	2,508	4,289	94	1,911	259	1,393
	2018	3,742	..	6,373	2,460	4,083	219	1,715	174	1,238
Greece	2015	615	..	1,471	274	1,075	..	473	..	1,080
	2016	662	..	1,657	225	748	..	597	..	1,156
	2017	664	..	1,616	249	907	..	483	..	1,462
	2018	839	..	1,795	281	1,142	..	583	..	1,271

Table 23

Production of minor oil products from refineries - by type

Thousand metric tons

Country or area	Year	Refinery gas	Ethane	Naphtha	Lubricants	Bitumen	Paraffin waxes	Petroleum coke	White spirit and SBP	Other oil products
Hungary	2015	180	..	904	124	487	37	402	13	695
	2016	173	..	1,008	134	518	35	380	20	610
	2017	174	..	862	133	440	42	309	24	640
	2018	207	..	1,036	135	404	34	330	19	752
Ireland	2015	85	..	34	..	..	..	..	..	..
	2016	72	..	77	..	..	..	..	..	..
	2017	75	..	94	..	..	..	..	..	..
	2018	76	..	35	..	..	..	..	..	..
Italy	2015	2,975	..	2,667	1,311	3,182	98	1,463	3	2,807
	2016	2,559	..	2,436	1,368	2,557	108	834	3	3,936
	2017	2,718	..	6,391	1,554	2,772	145	1,033	4	2,563
	2018	2,790	..	5,108	1,347	2,554	100	759	3	2,907
Lithuania	2015	330	..	..	46	137	..	115	..	84
	2016	346	..	..	56	166	..	127	..	95
	2017	352	..	..	66	209	..	119	..	94
	2018	332	..	..	72	242	..	121	..	94
Netherlands	2015	2,277	..	8,567	547	483	116	395	188	834
	2016	2,243	..	10,159	16	225	3	403	322	1,831
	2017	2,099	..	10,993	0	216	78	388	121	2,378
	2018	1,942	..	11,572	..	330	174	391	114	2,319
Norway	2015	466	..	1,705	..	..	..	216	..	..
	2016	420	..	1,111	..	..	..	473	..	..
	2017	482	..	1,236	..	..	..	217	..	..
	2018	478	..	1,281	..	..	..	485	..	..
Poland	2015	594	..	1,919	592	1,480	77	..	116	1,488
	2016	663	..	1,810	651	1,427	86	..	130	1,362
	2017	542	..	1,935	452	1,452	76	..	89	1,246
	2018	623	..	2,000	472	1,494	87	..	113	1,164
Portugal	2015	13	..	1,179	131	167	13	..	26	932
	2016	8	..	1,146	121	164	10	..	24	976
	2017	9	..	1,321	136	196	10	..	16	886
	2018	11	..	1,018	116	132	9	..	16	775
Republic of Moldova	2015	..	..	..	0	..	..	..	..	0
	2016	..	..	..	0	..	..	..	..	1
	2017	..	..	..	..	..	..	..	..	3
	2018	..	..	..	0	0	..	..	0	1
Romania	2015	734	..	282	..	81	..	740	111	198
	2016	787	..	184	..	91	..	843	128	96
	2017	783	..	230	..	96	..	909	126	196
	2018	788	..	193	..	102	..	838	132	254
Russian Federation	2015	16,323	*2,938	26,455	3,234	6,246	190	2,347	1,319	*1,333
	2016	15,590	*2,038	25,946	3,720	7,633	178	3,229	1,721	*1,623
	2017	15,318	*1,514	26,485	7,041	6,693	251	3,727	1,705	4,245
	2018	*15,350	1,920	27,236	11,480	6,912	246	3,829	845	9,267
Serbia	2015	57	..	359	9	333	..	14	..	208
	2016	65	..	359	12	333	..	13	..	171
	2017	53	..	441	11	360	..	13	..	197
	2018	59	..	449	13	416	..	12	..	188
Slovakia	2015	541	35	415	..	0	..	58	..	182
	2016	549	0	384	..	..	..	53	..	146
	2017	572	..	472	..	..	..	59	..	153
	2018	528	..	397	..	..	..	55	..	127

Table 23

Production of minor oil products from refineries - by type

Thousand metric tons

Country or area	Year	Refinery gas	Ethane	Naphtha	Lubricants	Bitumen	Paraffin waxes	Petroleum coke	White spirit and SBP	Other oil products
Spain	2015	2,364	..	1,240	396	2,491	84	3,660	257	2,709
	2016	2,366	..	1,194	409	2,471	95	3,782	265	2,575
	2017	2,346	..	1,368	399	2,483	88	3,823	255	2,338
	2018	2,236	..	1,756	415	2,630	90	3,802	243	2,319
Sweden	2015	768	..	0	350	945	..	63	..	1,805
	2016	739	..	86	383	961	..	69	..	2,082
	2017	733	..	83	378	870	..	59	..	1,800
	2018	822	..	188	355	733	..	69	..	122
Switzerland	2015	124	..	0	..	..	..	11	..	40
	2016	123	..	0	..	..	..	0	..	33
	2017	121	..	1	..	..	..	..	..	37
	2018	131	..	16	..	..	..	..	..	45
Ukraine	2015	123	..	..	73	101	..	..	..	247
	2016	26	..	..	90	27	..	..	..	430
	2017	36	..	..	112	37	..	..	..	599
	2018	35	..	..	147	170	..	..	..	1,282
United Kingdom	2015	2,343	..	2,368	350	990	27	1,737	151	1,077
	2016	2,444	..	2,306	350	968	11	1,882	95	1,100
	2017	2,424	..	2,280	443	817	39	1,910	7	1,018
	2018	2,368	..	2,209	436	875	55	1,685	7	1,459
Oceania	2015	1,184	..	578	0	221	..	471	71	221
	2016	1,009	..	850	0	316	..	424	76	230
	2017	1,021	..	838	..	202	..	374	66	167
	2018	1,058	..	833	..	164	..	321	72	88
Australia	2015	898	..	363	0	119	..	471	71	140
	2016	762	..	341	0	172	..	424	76	141
	2017	757	..	318	..	124	..	374	66	79
	2018	808	..	310	..	98	..	321	72	11
New Zealand	2015	286	..	..	..	102	..	..	..	76
	2016	247	..	..	..	144	..	..	..	75
	2017	264	..	..	..	78	..	..	..	75
	2018	250	..	..	..	66	..	..	..	64
Papua New Guinea	2015	..	..	215	..	..	..	..	..	5
	2016	..	..	509	..	..	..	..	..	14
	2017	..	..	520	..	..	..	..	..	13
	2018	..	..	*523	..	..	..	..	..	*13

Production of oil products from refineries – by type

Thousand metric tons

Table Notes

Production comprises all refinery output of all oil products.

The **Jet fuels** column comprises aviation gasoline, gasoline-type jet fuel and kerosene-type jet fuel.

The **Other products** column includes bitumen, ethane, feedstocks, lubricants, petroleum coke, paraffin waxes, white spirit, and other oil products.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description /classification, and xvi to xvii for the descriptions of relevant flows.

Figure 64: Production of selected oil products from refineries, 1990-2018

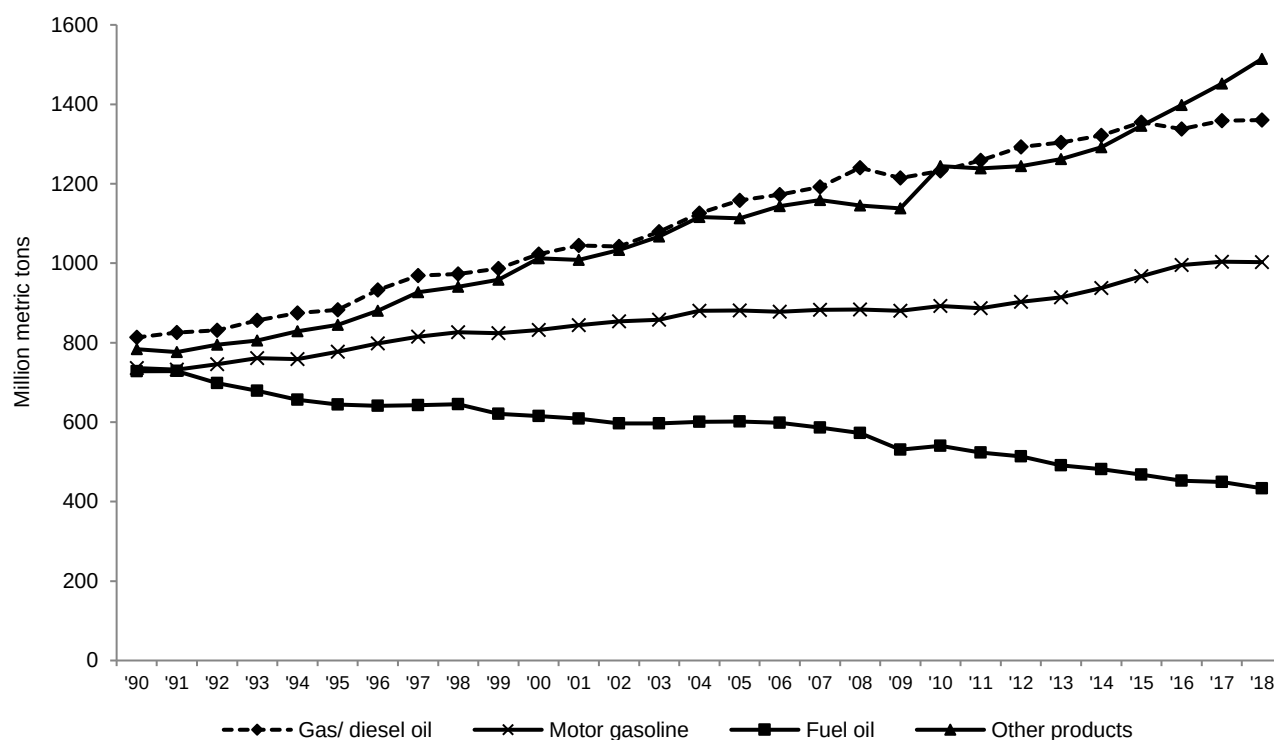


Table 24

Production of oil products from refineries - by type

Thousand metric tons

Country or area	Year	Total	Gas/ diesel oil	Motor gasoline	Fuel oil	Naphtha	Jet fuels	Refinery gas	LPG	Other kerosene	Other products
World	2015	4,134,955	1,354,893	966,986	467,467	272,167	293,612	130,535	120,395	60,547	468,353
	2016	4,184,043	1,337,851	995,818	452,423	281,399	301,501	129,797	131,415	59,402	494,438
	2017	4,264,089	1,358,969	1,003,877	449,266	293,240	315,194	125,496	138,033	56,440	523,574
	2018	4,311,094	1,360,348	1,002,784	433,516	297,868	333,136	129,798	141,050	55,601	556,991
Africa	2015	101,927	32,105	16,616	24,242	11,149	8,391	1,832	2,240	1,125	4,229
	2016	100,221	32,470	19,410	20,726	11,125	7,703	679	2,500	1,424	4,183
	2017	95,477	30,626	17,215	20,419	10,529	7,266	1,255	2,359	1,495	4,314
	2018	98,586	31,612	17,784	21,713	10,674	7,179	1,267	2,093	1,263	5,000
Algeria	2015	29,713	8,826	2,798	6,617	8,372	*1,609	350	740	*22	379
	2016	29,160	8,892	2,613	6,870	7,929	*1,635	..	765	*21	*435
	2017	28,317	8,537	2,547	6,402	8,143	*1,544	..	743	*17	*384
	2018	29,914	10,189	3,749	5,822	7,634	*1,497	..	658	*18	*347
Angola	2015	2,598	608	16	913	253	413	*106	26	78	185
	2016	2,641	599	33	971	305	338	*79	27	85	204
	2017	2,547	607	35	947	278	350	74	27	52	178
	2018	1,853	436	5	614	244	228	53	17	36	219
Cameroon	2015	1,613	578	295	273	..	107	68	13	122	157
	2016	1,596	572	292	270	..	106	67	13	121	155
	2017	1,313	471	240	222	..	87	55	11	100	127
	2018	1,180	427	218	201	..	79	50	10	90	105
Chad	2015	*774	*333	*264	*27	..	*28	..	*59	*4	*59
	2016	*677	*291	*231	*24	..	25	..	*52	*4	*52
	2017	*677	*291	*231	*24	..	*25	..	*52	*4	*52
	2018	*689	*296	*235	*24	..	*25	..	*52	*4	*53
Congo	2015	688	219	68	329	8	38	..	7	7	12
	2016	649	168	56	325	8	45	..	7	10	30
	2017	716	214	64	358	9	37	..	8	7	19
	2018	716	214	64	358	9	37	..	8	7	19
Côte d'Ivoire	2015	3,172	1,169	641	311	..	861	25	9	9	147
	2016	3,186	1,237	693	317	..	634	25	16	..	265
	2017	*3,064	*1,222	*888	*313	..	*327	19	*10	..	285
	2018	3,366	1,241	771	652	..	359	20	18	..	305
Egypt	2015	25,595	7,885	4,487	7,899	1,025	2,011	130	573	62	1,523
	2016	25,052	7,183	4,536	7,567	1,790	1,790	*125	540	63	*1,458
	2017	23,888	7,403	4,453	7,354	450	1,909	136	533	65	1,585
	2018	26,083	7,640	4,827	7,444	737	2,162	130	591	33	2,519
Gabon	2015	801	221	72	395	..	61	..	13	27	12
	2016	849	234	76	418	..	65	..	14	29	13
	2017	793	254	32	396	..	36	..	41	22	12
	2018	799	257	32	397	..	37	..	41	22	13
Ghana	2015	89	28	32	9	..	18	..	2	0	..
	2016	739	255	244	64	..	38	..	114	25	..
	2017	16	6	7	1	..	0	..	0	2	..
	2018	309	113	102	32	..	22	..	8	33	..
Libya	2015	4,306	1,003	497	1,767	539	316	87	44	26	27
	2016	4,004	917	399	1,827	518	182	81	30	25	25
	2017	4,772	1,332	470	1,673	667	436	97	43	24	30
	2018	5,595	1,563	391	1,847	948	639	113	35	24	35
Morocco	2015	3,127	1,139	186	553	204	412	90	29	..	514
	2016	0	0	0	0	0	0	0	0	..	0
	2017	..	..	..	..	..	..	..	..	..	..
	2018	..	..	..	..	..	..	..	..	..	..

Production of oil products from refineries - by type

Thousand metric tons

Country or area	Year	Total	Gas/ diesel oil	Motor gasoline	Fuel oil	Naphtha	Jet fuels	Refinery gas	LPG	Other kerosene	Other products
Niger	2015	565	348	174	..	..	..	..	44	..	..
	2016	572	352	184	..	..	..	..	35	..	..
	2017	*795	*520	228	..	..	..	..	47	..	..
	2018	742	492	197	..	..	..	..	53	..	..
Nigeria	2015	1,618	294	261	406	29	15	52	39	204	318
	2016	3,351	685	931	577	82	41	77	66	401	491
	2017	4,380	900	675	994	342	54	102	79	502	732
	2018	2,692	374	368	779	158	27	98	48	327	513
Senegal	2015	1,012	553	101	233	81	18	21	5	..	..
	2016	1,124	629	116	266	87	0	23	3	..	..
	2017	1,202	679	97	285	123	0	15	3	..	..
	2018	981	576	93	220	76	..	13	3	..	..
South Africa	2015	20,493	6,233	5,583	3,791	332	2,341	869	299	459	586
	2016	20,809	7,845	7,693	584	166	2,640	166	420	558	736
	2017	17,918	*5,861	5,983	895	420	2,379	723	405	619	631
	2018	18,700	5,417	5,668	2,753	618	2,019	758	246	605	616
Sudan	2015	3,853	1,839	1,054	208	14	111	21	304	17	285
	2016	4,165	1,960	1,196	135	11	156	24	373	11	299
	2017	3,609	1,797	1,063	51	4	82	20	329	4	258
	2018	3,320	1,696	925	114	9	38	*20	277	10	231
Tunisia	2015	1,305	492	..	430	292	..	..	24	55	12
	2016	1,185	439	22	409	230	..	2	20	53	10
	2017	906	314	79	327	93	..	4	19	59	11
	2018	1,054	407	3	338	241	..	..	18	34	13
Zambia	2015	605	337	87	81	..	32	13	10	32	13
	2016	463	213	95	102	..	9	10	5	18	10
	2017	564	217	124	176	..	0	10	9	18	10
	2018	593	274	136	119	..	11	12	9	21	12
America, North	2015	984,932	287,857	396,956	50,001	15,568	82,173	22,186	12,500	1,704	115,988
	2016	987,258	278,097	407,609	47,767	15,760	84,701	22,224	12,326	1,467	117,306
	2017	991,031	284,667	407,464	47,137	13,009	87,414	20,568	12,470	1,137	117,166
	2018	995,738	286,727	407,275	44,910	13,656	91,646	20,524	11,764	1,208	118,027
Canada	2015	87,753	30,135	30,167	4,738	3,562	4,294	3,526	1,272	832	9,227
	2016	88,966	29,802	31,772	4,115	3,892	4,578	3,259	1,165	773	9,610
	2017	92,861	32,268	33,229	4,739	1,749	5,661	2,645	1,524	756	10,290
	2018	90,454	29,953	30,891	5,196	1,939	5,540	2,948	1,362	728	11,897
Cuba	2015	4,526	1,030	446	2,233	354	244	19	51	28	122
	2016	2,205	558	185	1,032	232	42	5	36	2	115
	2017	2,632	714	139	1,255	289	68	3	51	3	110
	2018	2,751	703	212	1,313	301	66	4	30	7	116
Curaçao	2015	9,060	1,852	1,818	3,275	359	658	221	59	..	818
	2016	8,216	1,611	1,788	2,996	353	574	169	45	..	680
	2017	4,321	854	1,107	1,447	98	294	99	24	..	398
	2018	3,089	642	808	1,088	74	219	48	18	..	192
Dominican Republic	2015	764	214	158	234	..	138	9	7	6	..
	2016	1,097	316	229	310	..	204	13	16	9	..
	2017	899	274	189	254	..	154	10	11	6	..
	2018	1,208	356	256	372	..	189	14	14	8	..
Guatemala	2015	66	39	..	..	..	..	..	..	0	27
	2016	56	43	..	..	..	..	..	..	0	14
	2017	85	47	..	..	..	..	..	..	0	38
	2018	147	50	..	..	..	..	..	..	..	97

Table 24

Production of oil products from refineries - by type

Thousand metric tons

Country or area	Year	Total	Gas/ diesel oil	Motor gasoline	Fuel oil	Naphtha	Jet fuels	Refinery gas	LPG	Other kerosene	Other products
Jamaica	2015	1,221	145	151	752	36	99	..	7	..	31
	2016	1,094	130	133	677	51	74	..	9	..	20
	2017	1,048	108	143	677	40	50	..	13	..	18
	2018	1,047	102	119	729	0	61	..	11	..	25
Mexico	2015	56,815	14,059	15,785	13,500	3,124	2,182	3,193	670	..	4,302
	2016	50,634	11,580	13,563	13,007	3,008	1,958	3,190	541	..	3,787
	2017	44,357	11,165	10,715	12,360	2,441	1,884	2,445	504	..	2,843
	2018	35,504	8,485	8,654	10,550	2,046	1,589	1,816	317	..	2,047
Nicaragua	2015	729	197	100	336	..	25	12	13	7	39
	2016	656	137	91	330	..	28	14	18	6	31
	2017	673	169	101	318	..	29	9	20	8	20
	2018	653	210	96	240	..	29	18	17	8	34
Trinidad and Tobago	2015	6,182	1,550	1,634	2,183	0	553	59	68	34	101
	2016	7,303	2,113	2,052	2,236	0	669	59	62	32	80
	2017	6,388	1,468	1,601	2,345	0	509	52	63	29	321
	2018	5,032	1,178	1,435	1,810	..	397	88	39	24	61
United States	2015	817,816	238,637	346,697	22,751	8,133	73,980	15,147	10,353	797	101,321
	2016	827,031	231,807	357,795	23,064	8,225	76,575	15,516	10,434	646	102,969
	2017	837,767	237,599	360,241	23,742	8,391	78,766	15,305	10,260	335	103,128
	2018	855,853	245,048	364,804	23,612	9,296	83,556	15,588	9,956	434	103,559
America, South	2015	219,867	74,828	45,920	42,886	6,626	11,393	8,179	6,328	342	23,365
	2016	210,744	71,406	45,816	38,590	5,923	10,698	7,651	6,478	328	23,855
	2017	201,172	66,840	44,866	36,027	6,017	10,726	7,653	6,444	291	22,310
	2018	195,664	67,811	42,778	32,623	6,147	11,069	7,443	6,363	255	21,175
Argentina	2015	27,247	10,024	6,157	4,606	921	1,301	1,066	878	15	2,279
	2016	26,363	9,716	6,242	3,923	764	1,298	1,051	1,067	14	2,288
	2017	25,741	9,803	6,576	2,993	727	1,434	1,017	1,004	10	2,177
	2018	24,054	9,397	6,575	1,878	400	1,462	1,072	921	9	2,340
Bolivia (Plur. State of)	2015	2,641	884	823	517	..	191	..	104	16	106
	2016	2,417	814	1,055	121	1	189	..	112	18	107
	2017	2,250	745	1,035	81	..	190	..	105	16	78
	2018	2,126	724	993	38	..	180	..	100	18	73
Brazil	2015	104,248	43,297	19,045	14,087	3,337	4,635	4,870	4,046	6	10,925
	2016	97,217	39,532	19,638	11,424	2,308	4,729	4,445	3,967	6	11,168
	2017	93,083	35,321	19,406	11,646	2,248	5,041	4,549	4,036	5	10,831
	2018	91,463	36,396	17,550	10,761	2,944	5,200	4,264	4,016	5	10,327
Chile	2015	9,685	3,031	2,823	1,252	121	578	201	305	148	1,226
	2016	9,429	2,907	2,974	1,220	48	556	203	251	161	1,109
	2017	9,648	3,073	3,055	1,170	75	592	211	286	161	1,025
	2018	9,726	3,052	2,964	1,149	64	635	215	434	162	1,051
Colombia	2015	11,518	2,230	3,193	3,459	137	857	189	482	72	899
	2016	16,786	4,574	3,038	3,934	814	1,091	263	538	66	2,468
	2017	17,596	5,702	3,281	3,283	1,070	1,221	275	551	39	2,174
	2018	19,175	7,116	4,104	3,048	1,164	1,370	290	248	4	1,831
Ecuador	2015	6,217	1,461	911	2,439	..	349	2	45	3	1,008
	2016	7,695	1,907	1,495	2,873	..	342	2	155	2	920
	2017	7,759	1,902	1,410	2,968	..	393	2	157	4	923
	2018	8,259	1,820	1,405	3,572	..	365	1	245	3	848
Peru	2015	8,252	3,412	1,642	1,972	..	620	149	195	..	262
	2016	8,561	3,112	1,796	2,432	..	639	137	206	..	239
	2017	9,373	2,998	1,872	3,258	..	620	151	200	..	274
	2018	9,036	2,807	1,932	3,019	..	633	168	213	..	264

Production of oil products from refineries - by type

Thousand metric tons

Country or area	Year	Total	Gas/ diesel oil	Motor gasoline	Fuel oil	Naphtha	Jet fuels	Refinery gas	LPG	Other kerosene	Other products
Suriname	2015	433	20	2	405	..	..	..	..	..	5
	2016	536	200	35	296	..	..	..	..	..	5
	2017	674	284	64	321	..	..	..	..	..	5
	2018	660	291	66	298	..	..	..	..	..	4
Uruguay	2015	1,847	745	470	313	..	94	54	80	6	84
	2016	1,994	767	535	334	..	114	62	96	7	79
	2017	557	191	149	105	..	31	18	22	5	36
	2018	2,073	883	533	242	..	105	58	106	5	141
Venezuela (Bolivar. Rep.)	2015	47,779	9,724	10,853	13,836	2,110	2,768	1,648	193	76	6,571
	2016	39,747	7,878	9,008	12,032	1,988	1,741	1,488	86	54	5,472
	2017	34,492	6,821	8,018	10,201	1,897	1,204	1,430	83	51	4,787
	2018	29,092	5,325	6,656	8,618	1,575	1,119	1,374	80	49	4,296
Asia	2015	1,831,907	596,518	328,599	190,631	171,026	139,919	57,735	62,376	44,314	240,789
	2016	1,911,078	603,245	344,816	198,385	180,672	147,998	59,979	69,701	43,723	262,560
	2017	1,979,868	617,007	357,542	203,417	189,490	156,333	56,812	70,258	40,673	288,338
	2018	2,028,864	621,736	358,170	200,021	193,425	165,939	61,653	73,826	39,197	314,897
Azerbaijan	2015	6,410	2,804	1,224	324	193	689	216	157	..	803
	2016	5,865	2,315	1,153	399	174	627	231	186	..	780
	2017	5,568	1,849	1,215	236	169	588	214	200	..	1,097
	2018	5,972	2,148	1,186	107	205	708	214	204	..	1,201
Bahrain	2015	13,512	4,210	821	2,181	1,639	3,323	..	159	0	1,179
	2016	13,058	3,997	784	2,484	1,565	3,175	..	162	0	891
	2017	13,303	4,184	744	2,750	1,494	3,116	..	149	0	866
	2018	13,227	4,083	741	2,599	1,655	3,116	..	166	0	867
Bangladesh	2015	1,247	389	17	299	162	1	13	11	245	110
	2016	1,174	333	26	363	132	1	13	10	194	102
	2017	1,432	407	32	443	161	1	16	12	237	123
	2018	1,249	499	94	304	97	1	14	10	127	103
Brunei Darussalam	2015	468	141	156	80	..	71	14	..	6	..
	2016	306	114	92	39	..	45	10	..	6	..
	2017	232	104	73	..	..	46	3	..	6	..
	2018	321	110	133	..	..	56	18	..	4	..
China	2015	603,236	180,079	120,251	39,630	45,850	35,443	18,537	29,344	1,928	132,174
	2016	633,757	179,177	128,465	42,369	50,324	39,081	18,923	35,039	1,613	138,767
	2017	678,284	186,679	133,934	45,635	54,639	41,797	19,825	36,625	1,442	157,708
	2018	711,792	183,601	142,647	38,997	60,255	47,216	20,132	39,156	1,437	178,351
Georgia	2015	12	5	0	5	..	..	..	..	0	2
	2016	25	9	7	8	..	..	..	..	0	..
	2017	24	10	2	9	3	..	..	..	..	..
	2018	22	10	1	9	3	..	..	..	..	..
India	2015	243,139	98,588	35,321	9,727	17,861	11,789	*11,643	10,568	7,504	40,138
	2016	253,122	103,113	36,593	9,962	17,607	*13,828	*12,268	10,968	6,041	42,742
	2017	260,900	108,466	37,784	9,486	18,786	14,594	*9,825	10,170	4,408	47,381
	2018	273,711	111,236	38,039	10,032	*18,536	*15,461	*14,117	*10,700	4,072	*51,518
Indonesia	2015	36,947	16,159	9,022	1,224	1,406	2,553	632	700	656	4,595
	2016	37,793	16,186	10,297	1,305	1,371	2,599	655	892	843	3,645
	2017	38,923	16,723	9,473	1,027	1,565	2,613	673	871	788	5,190
	2018	38,887	17,614	7,746	1,258	1,666	2,993	690	891	779	5,250
Iran (Islamic Rep. of)	2015	86,802	28,411	16,338	22,311	3,226	1,390	1,898	3,191	2,349	7,687
	2016	89,102	28,509	16,798	21,964	3,505	1,505	1,951	3,342	2,523	9,006
	2017	87,782	26,937	22,130	19,707	3,000	1,592	1,581	2,123	2,820	7,892
	2018	87,381	28,608	17,743	22,136	3,030	1,633	1,545	2,120	2,895	7,671

Table 24

Production of oil products from refineries - by type

Thousand metric tons

Country or area	Year	Total	Gas/ diesel oil	Motor gasoline	Fuel oil	Naphtha	Jet fuels	Refinery gas	LPG	Other kerosene	Other products
Iraq	2015	19,694	3,539	1,853	11,964	439	197	133	25	1,222	322
	2016	20,404	3,287	2,117	12,774	480	211	137	116	1,148	134
	2017	23,921	4,012	2,483	14,573	571	247	164	173	1,396	302
	2018	27,148	5,291	2,832	16,182	442	212	192	242	1,447	308
Israel	2015	14,765	5,187	3,012	2,680	1,186	868	586	381	264	601
	2016	14,174	4,411	2,945	2,715	1,095	934	616	354	283	821
	2017	14,088	4,628	2,766	2,667	1,201	1,127	569	362	..	768
	2018	14,783	4,789	3,055	2,576	1,153	1,325	567	422	..	896
Japan	2015	162,719	45,823	40,291	17,047	13,986	12,334	7,220	4,320	12,824	8,874
	2016	163,395	45,582	39,513	17,777	14,656	12,461	7,157	4,210	12,863	9,176
	2017	157,801	45,619	39,157	15,340	13,175	11,500	7,111	4,416	12,796	8,687
	2018	151,609	44,574	37,464	14,714	12,385	12,194	7,030	3,755	10,780	8,713
Jordan	2015	3,286	1,058	653	885	..	262	*40	80	91	218
	2016	2,861	909	583	599	..	291	*36	81	97	266
	2017	2,671	845	557	564	..	287	*33	78	54	253
	2018	2,281	738	483	458	..	336	42	65	11	149
Kazakhstan	2015	13,358	4,487	2,864	3,900	..	280	111	827	33	856
	2016	12,827	4,652	2,938	3,100	..	*264	111	*844	2	916
	2017	13,595	4,352	3,055	3,365	..	302	161	1,077	0	1,283
	2018	14,586	4,664	3,955	2,948	..	387	177	995	5	1,455
Korea, Dem.Ppl's.Rep.	2015	515	191	178	109	..	..	..	..	37	..
	2016	515	191	178	109	..	..	..	..	37	..
	2017	515	191	178	109	..	..	..	..	37	..
	2018	515	191	178	109	..	..	..	..	37	..
Korea, Republic of	2015	139,689	45,099	17,729	8,433	29,404	19,135	4,499	2,187	2,590	10,613
	2016	146,029	45,831	17,266	10,383	31,503	20,277	4,566	2,244	2,716	11,243
	2017	153,142	46,583	18,343	9,874	35,356	21,944	3,831	2,773	2,722	11,716
	2018	158,099	48,366	19,601	10,200	36,933	21,571	4,365	2,922	2,729	11,412
Kuwait	2015	42,165	10,294	2,041	11,197	8,470	2,540	399	147	6,403	674
	2016	37,847	9,425	2,405	10,002	7,120	2,184	383	164	5,505	659
	2017	32,151	8,476	2,113	8,723	5,675	1,731	310	189	4,362	572
	2018	32,449	8,397	2,097	8,642	5,613	1,855	322	193	4,676	654
Kyrgyzstan	2015	320	56	115	136	..	..	..	13	..	..
	2016	379	106	171	75	..	..	..	27	..	..
	2017	431	89	235	63	..	..	..	44	..	..
	2018	544	79	219	156	..	..	..	55	..	35
Malaysia	2015	23,684	9,737	4,788	1,706	2,447	2,751	169	717	6	1,363
	2016	24,249	9,833	4,801	1,492	2,744	2,469	198	1,181	4	1,527
	2017	26,501	9,725	7,855	1,739	2,356	3,152	172	764	10	728
	2018	24,093	9,515	5,258	2,452	1,818	3,342	128	826	18	736
Myanmar	2015	515	161	234	61	..	17	24	..	0	18
	2016	394	150	143	67	..	16	..	..	0	19
	2017	406	151	145	78	..	15	..	..	0	17
	2018	220	103	53	35	..	8	..	6	0	15
Oman	2015	10,812	2,963	3,061	2,906	485	668	115	323	0	291
	2016	10,876	2,922	3,018	3,173	482	666	93	278	6	238
	2017	11,712	3,331	2,990	2,563	939	923	124	419	4	419
	2018	13,477	2,779	2,380	3,820	1,375	1,377	149	450	4	1,143
Other Asia	2015	44,778	13,874	7,843	5,970	7,212	3,831	1,958	936	2	3,152
	2016	45,114	13,650	9,247	5,125	7,074	3,729	2,107	1,108	7	3,067
	2017	44,315	13,340	8,463	4,953	7,667	3,780	1,897	1,018	2	3,195
	2018	46,317	14,376	8,537	4,183	8,696	4,087	2,196	1,131	5	3,106

Production of oil products from refineries - by type

Thousand metric tons

Country or area	Year	Total	Gas/ diesel oil	Motor gasoline	Fuel oil	Naphtha	Jet fuels	Refinery gas	LPG	Other kerosene	Other products
Pakistan	2015	11,831	4,587	1,590	2,925	914	836	176	174	142	487
	2016	12,276	4,783	1,839	3,054	767	879	190	178	125	462
	2017	13,751	5,501	2,212	3,303	781	914	..	392	115	*534
	2018	13,439	5,232	2,383	3,398	794	783	..	210	113	526
Philippines	2015	9,811	4,008	1,983	957	306	926	..	454	61	1,118
	2016	10,089	4,030	2,197	781	256	1,020	..	460	67	1,278
	2017	9,847	3,840	2,153	977	200	913	..	446	53	1,266
	2018	11,110	4,589	2,435	737	241	1,040	..	509	47	1,511
Qatar	2015	11,914	2,091	1,583	513	3,775	3,052	60	333	..	507
	2016	12,853	2,081	1,963	225	3,997	3,447	61	339	..	740
	2017	15,828	1,973	1,937	234	5,592	4,683	58	332	..	1,019
	2018	15,687	1,975	1,604	146	4,965	4,385	58	216	..	2,338
Saudi Arabia	2015	126,377	48,613	21,165	24,646	7,868	3,672	3,975	1,438	6,180	8,820
	2016	146,396	53,198	24,065	25,425	8,669	4,271	4,291	1,340	7,247	17,890
	2017	148,540	54,486	23,949	25,699	8,499	4,321	4,300	1,335	7,332	18,619
	2018	146,532	54,156	23,418	25,106	6,877	4,572	4,248	1,465	7,758	18,932
Singapore	2015	46,212	12,829	10,046	2,077	1,856	9,692	2,633	318	312	6,449
	2016	50,852	12,199	9,096	4,279	3,667	10,175	3,155	333	266	7,682
	2017	53,684	10,967	9,108	5,383	4,494	11,864	3,251	224	205	8,188
	2018	49,463	9,185	8,491	5,461	2,898	11,862	3,107	833	250	7,376
Sri Lanka	2015	1,615	517	154	553	137	155	14	10	75	2
	2016	1,647	583	166	479	144	148	14	9	104	1
	2017	1,636	506	165	494	142	236	13	19	60	1
	2018	1,607	568	165	424	141	237	13	22	35	2
Syrian Arab Republic	2015	6,488	2,046	539	2,676	535	196	87	68	3	338
	2016	6,996	2,207	581	2,886	577	211	94	73	3	364
	2017	7,768	2,451	645	3,205	641	234	104	81	3	404
	2018	7,275	2,295	604	3,001	600	219	98	76	3	379
Tajikistan	2015	*22	3	0	5	*12	..	..	..	..	2
	2016	24	5	1	7	*9	..	..	..	..	3
	2017	23	10	1	9	..	..	..	..	..	3
	2018	46	17	1	26	..	..	..	..	..	3
Thailand	2015	58,895	23,351	7,186	5,374	10,733	5,587	563	1,920	1,071	3,110
	2016	58,277	22,110	7,805	5,326	10,478	5,262	550	1,975	1,756	3,015
	2017	59,620	23,150	8,099	5,526	10,430	5,573	569	2,216	1,557	2,500
	2018	60,694	23,165	8,417	5,580	10,437	6,097	570	2,217	1,694	2,517
Turkey	2015	29,234	8,652	5,113	3,460	273	5,027	1,391	899	58	4,361
	2016	29,605	9,661	5,103	2,835	320	4,504	1,541	972	18	4,651
	2017	31,940	10,478	5,366	2,987	343	4,837	1,354	1,015	19	5,541
	2018	28,227	9,421	4,691	2,189	375	4,787	1,004	913	23	4,824
Turkmenistan	2015	8,550	2,770	2,610	1,690	..	470	130	360	150	370
	2016	8,540	2,770	2,610	1,690	..	470	120	360	150	370
	2017	8,532	2,770	2,610	1,690	..	470	112	360	150	370
	2018	8,526	2,770	2,610	1,690	..	470	106	360	150	370
United Arab Emirates	2015	41,612	9,194	4,931	2,604	10,432	11,734	411	1,001	..	1,305
	2016	49,179	10,865	5,863	4,732	11,782	12,664	*422	1,050	..	1,801
	2017	50,401	10,427	3,819	9,608	11,407	12,398	447	1,039	..	1,256
	2018	52,431	10,929	3,578	9,854	11,963	12,931	437	829	..	1,910
Uzbekistan	2015	3,654	1,286	1,064	90	..	186	88	682	15	243
	2016	3,653	1,008	1,134	93	..	183	86	856	12	281
	2017	3,609	1,017	1,112	112	..	146	94	830	9	289
	2018	3,847	1,081	1,147	143	..	193	114	819	9	342

Table 24

Production of oil products from refineries - by type

Thousand metric tons

Country or area	Year	Total	Gas/ diesel oil	Motor gasoline	Fuel oil	Naphtha	Jet fuels	Refinery gas	LPG	Other kerosene	Other products
Viet Nam	2015	6,721	3,068	2,747	138	..	196	..	572	..	..
	2016	6,656	2,855	2,777	138	..	377	..	491	..	18
	2017	6,127	2,481	2,565	136	..	357	..	444	..	144
	2018	10,303	4,286	4,109	200	..	444	..	988	2	274
Yemen	2015	899	250	76	151	218	50	..	61	86	7
	2016	769	189	76	151	174	26	..	61	86	6
	2017	867	250	76	151	205	31	..	61	86	7
	2018	994	297	76	151	273	41	..	61	86	9
Europe	2015	964,361	351,662	168,054	158,549	67,220	47,187	39,420	36,257	13,013	82,999
	2016	945,978	342,610	168,103	145,842	67,069	46,376	38,255	39,828	12,407	85,488
	2017	968,685	350,070	167,332	141,046	73,357	49,293	38,188	45,968	12,793	90,638
	2018	963,462	342,421	167,005	132,877	73,134	52,838	37,854	46,458	13,627	97,247
Albania	2015	288	56	..	0	26	..	*12	..	..	194
	2016	183	18	..	1	4	..	*6	..	..	154
	2017	503	158	..	0	40	..	19	..	..	285
	2018	291	104	..	..	29	..	9	..	..	150
Austria	2015	9,138	3,855	1,721	1,154	941	649	282	139	28	369
	2016	8,554	3,581	1,671	898	961	652	218	122	21	430
	2017	8,496	3,776	1,692	839	804	614	262	102	15	392
	2018	9,166	3,860	1,928	710	1,028	761	281	111	26	461
Belarus	2015	23,196	8,554	3,925	7,431	..	388	757	472	3	1,666
	2016	18,717	6,768	3,573	5,569	..	329	632	358	5	1,483
	2017	18,471	6,563	3,481	5,112	..	401	617	410	7	1,880
	2018	18,878	6,594	3,356	5,352	..	370	709	465	7	2,026
Belgium	2015	35,204	13,424	4,906	5,306	2,262	1,686	816	671	28	6,105
	2016	33,631	12,309	4,797	5,349	2,443	1,666	860	697	21	5,489
	2017	35,283	12,843	4,608	7,488	2,319	1,942	916	738	31	4,398
	2018	34,069	13,525	4,013	7,507	2,611	1,842	824	829	30	2,888
Bosnia and Herzegovina	2015	919	410	130	105	10	..	..	24	..	240
	2016	826	381	140	69	7	..	..	19	..	210
	2017	862	366	142	81	7	..	..	24	..	242
	2018	704	300	116	57	7	..	..	19	..	205
Bulgaria	2015	6,681	2,202	1,788	1,654	300	179	263	102	..	193
	2016	6,942	2,745	1,785	1,297	366	207	310	103	..	129
	2017	7,145	3,032	1,848	974	448	265	331	120	..	127
	2018	6,189	2,545	1,508	948	372	259	294	97	..	166
Croatia	2015	3,342	1,250	843	489	52	105	208	209	..	186
	2016	3,715	1,434	864	601	64	116	155	208	..	273
	2017	3,884	1,492	1,005	577	52	131	185	242	..	200
	2018	3,930	1,556	895	669	39	192	187	216	..	176
Czechia	2015	7,508	3,174	1,533	169	657	186	156	220	..	1,413
	2016	5,604	2,498	1,179	104	394	60	101	255	..	1,013
	2017	8,183	3,403	1,521	169	840	180	145	358	..	1,567
	2018	7,848	3,276	1,398	137	930	181	140	356	..	1,430
Denmark	2015	8,923	4,300	2,335	1,702	..	144	319	123	..	..
	2016	9,091	4,703	2,098	1,771	..	130	287	102	..	..
	2017	8,759	4,346	2,241	1,626	..	122	306	118	..	..
	2018	9,095	4,496	2,189	1,870	..	113	301	126	..	..
Finland	2015	12,565	5,292	3,575	1,441	220	546	508	241	..	742
	2016	14,308	6,290	4,109	1,554	133	572	592	275	..	783
	2017	14,726	6,306	4,403	1,614	103	755	573	285	..	687
	2018	14,468	5,978	4,435	1,543	70	794	586	254	..	808

Production of oil products from refineries - by type

Thousand metric tons

Country or area	Year	Total	Gas/ diesel oil	Motor gasoline	Fuel oil	Naphtha	Jet fuels	Refinery gas	LPG	Other kerosene	Other products
France	2015	60,242	25,581	11,227	7,509	5,209	3,874	1,348	1,581	0	3,913
	2016	59,365	24,963	11,214	7,686	4,974	3,790	1,322	1,528	0	3,888
	2017	59,348	24,794	11,304	6,403	5,301	4,257	1,282	1,618	..	4,389
	2018	55,639	23,087	10,408	5,853	5,387	4,186	1,167	1,421	..	4,130
Germany	2015	99,200	43,520	18,945	7,953	7,978	5,178	3,839	2,656	0	9,131
	2016	100,381	43,834	19,674	7,374	7,860	5,317	3,937	2,744	9	9,632
	2017	101,529	43,432	19,806	7,376	7,635	5,347	4,051	3,419	9	10,454
	2018	97,088	40,743	20,718	7,296	6,373	5,101	3,742	3,224	2	9,889
Greece	2015	28,427	10,369	4,611	5,676	1,471	2,079	615	703	1	2,902
	2016	30,217	10,701	5,169	6,150	1,657	2,328	662	824	0	2,726
	2017	31,765	10,797	5,291	7,028	1,616	2,431	664	837	0	3,101
	2018	32,771	10,975	5,351	6,551	1,795	3,136	839	847	..	3,277
Hungary	2015	7,473	3,055	1,152	69	904	191	180	164	..	1,758
	2016	7,334	3,009	1,108	39	1,008	199	173	101	..	1,697
	2017	7,153	3,093	1,023	78	862	236	174	99	..	1,588
	2018	7,658	3,174	1,117	43	1,036	297	207	110	..	1,674
Ireland	2015	3,365	1,290	602	1,167	34	..	85	46	141	..
	2016	3,180	1,198	547	1,070	77	..	72	41	175	..
	2017	3,189	1,214	549	1,049	94	..	75	49	159	..
	2018	3,058	1,097	601	976	35	..	76	58	215	..
Italy	2015	73,935	31,996	15,790	7,706	2,667	2,115	2,975	1,299	523	8,864
	2016	71,361	30,665	15,106	8,074	2,436	2,047	2,559	1,236	432	8,806
	2017	74,944	29,521	15,679	8,511	6,391	2,218	2,718	1,348	487	8,071
	2018	71,742	28,996	15,601	6,858	5,108	2,770	2,790	1,228	721	7,670
Lithuania	2015	8,920	2,908	2,403	1,561	..	1,029	330	307	..	382
	2016	9,790	3,118	2,615	1,840	..	1,082	346	345	..	444
	2017	10,020	3,332	2,738	1,688	..	1,059	352	363	..	488
	2018	9,783	3,389	2,555	1,681	..	955	332	342	..	529
Netherlands	2015	59,091	22,067	5,419	8,401	8,567	7,503	2,277	1,745	549	2,563
	2016	60,097	19,096	3,902	11,961	10,159	7,556	2,243	1,650	730	2,800
	2017	59,665	19,148	2,951	11,684	10,993	7,654	2,099	1,557	398	3,181
	2018	60,917	18,441	3,937	11,077	11,572	8,928	1,942	1,481	211	3,328
Norway	2015	16,151	6,641	4,004	1,790	1,705	840	466	462	27	216
	2016	13,014	4,984	3,766	1,290	1,111	533	420	419	18	473
	2017	16,178	6,761	4,609	1,545	1,236	763	482	478	87	217
	2018	17,036	7,683	4,421	1,474	1,281	778	478	428	8	485
Poland	2015	27,502	11,757	3,939	3,869	1,919	1,096	594	575	0	3,753
	2016	27,027	11,558	3,947	3,609	1,810	1,183	663	601	0	3,656
	2017	26,692	11,884	3,916	3,436	1,935	1,119	542	545	..	3,315
	2018	28,226	12,491	4,208	3,630	2,000	1,339	623	605	..	3,330
Portugal	2015	15,092	6,104	2,694	2,498	1,179	1,160	13	175	0	1,269
	2016	14,915	5,695	2,619	2,675	1,146	1,237	8	240	0	1,295
	2017	15,478	5,935	2,749	2,645	1,321	1,361	9	214	..	1,244
	2018	13,797	5,224	2,501	2,358	1,018	1,432	11	205	..	1,048
Republic of Moldova	2015	11	0	..	11	..	..	..	..	..	0
	2016	16	2	..	13	..	..	..	..	..	1
	2017	15	1	..	11	..	..	..	..	..	3
	2018	10	2	..	6	..	..	..	..	..	2
Romania	2015	11,530	5,116	2,982	308	282	400	734	567	11	1,130
	2016	12,194	5,437	3,405	218	184	398	787	597	10	1,158
	2017	12,461	5,655	3,285	182	230	381	783	617	1	1,327
	2018	12,583	5,656	3,381	196	193	418	788	624	1	1,326

Table 24

Production of oil products from refineries - by type

Thousand metric tons

Country or area	Year	Total	Gas/ diesel oil	Motor gasoline	Fuel oil	Naphtha	Jet fuels	Refinery gas	LPG	Other kerosene	Other products
Russian Federation	2015	282,886	76,004	39,235	75,957	26,455	12,298	16,323	18,622	*385	17,607
	2016	273,944	76,249	40,004	61,426	25,946	*12,030	15,590	22,259	*298	20,142
	2017	281,548	80,090	38,027	56,018	26,485	12,577	15,318	27,605	*252	25,176
	2018	285,776	77,464	39,053	50,147	27,236	12,982	*15,350	28,730	*315	34,499
Serbia	2015	3,382	1,279	484	355	359	108	57	176	..	564
	2016	3,435	1,322	482	389	359	123	65	166	..	529
	2017	3,638	1,401	499	380	441	155	53	127	..	582
	2018	3,859	1,572	516	361	449	190	59	83	..	629
Slovakia	2015	6,437	2,976	1,485	471	415	92	541	181	1	275
	2016	6,214	2,852	1,485	470	384	99	549	176	0	199
	2017	6,119	2,852	1,395	363	472	76	572	177	..	212
	2018	5,930	2,704	1,362	482	397	95	528	180	..	182
Spain	2015	64,967	27,467	9,105	3,984	1,240	226	2,364	1,699	9,285	9,597
	2016	64,893	26,644	9,555	5,109	1,194	214	2,366	1,541	8,673	9,597
	2017	65,766	27,143	9,101	5,532	1,368	189	2,346	1,401	9,300	9,386
	2018	67,599	27,167	9,211	6,000	1,756	381	2,236	1,311	10,038	9,499
Sweden	2015	21,367	8,000	4,992	3,867	0	104	768	473	..	3,163
	2016	21,211	7,428	4,906	4,003	86	73	739	481	..	3,495
	2017	21,132	8,082	4,674	4,010	83	22	733	421	..	3,107
	2018	21,649	8,504	5,003	5,150	188	204	822	499	..	1,279
Switzerland	2015	2,837	1,542	692	314	0	38	124	76	..	51
	2016	3,005	1,693	690	319	0	43	123	104	..	33
	2017	2,877	1,666	648	290	1	7	121	107	..	37
	2018	3,070	1,776	648	316	16	5	131	133	..	45
Ukraine	2015	2,849	786	643	535	..	..	123	341	..	421
	2016	2,851	929	*350	590	..	..	26	409	..	547
	2017	3,050	680	731	444	..	..	36	411	..	748
	2018	2,460	0	..	429	..	..	35	397	..	1,599
United Kingdom	2015	60,933	20,687	16,894	5,097	2,368	4,973	2,343	2,208	2,031	4,332
	2016	59,963	20,506	17,343	4,324	2,306	4,392	2,444	2,227	2,015	4,406
	2017	59,806	20,303	17,416	3,893	2,280	5,031	2,424	2,178	2,047	4,234
	2018	58,173	20,043	16,575	3,200	2,209	5,129	2,368	2,079	2,053	4,517
Oceania	2015	31,961	11,923	10,841	1,157	578	4,548	1,184	694	50	984
	2016	28,763	10,022	10,064	1,114	850	4,024	1,009	582	52	1,046
	2017	27,855	9,760	9,459	1,220	838	4,162	1,021	535	52	809
	2018	28,782	10,042	9,771	1,372	833	4,465	1,058	546	51	645
Australia	2015	25,718	9,516	9,397	602	363	3,445	898	689	7	801
	2016	21,873	7,525	8,579	516	341	2,759	762	569	9	813
	2017	21,134	7,275	8,131	644	318	2,841	757	518	7	643
	2018	22,067	7,706	8,401	765	310	3,040	808	529	6	502
New Zealand	2015	5,612	2,150	1,444	485	..	1,069	286	..	..	178
	2016	5,522	1,949	1,485	463	..	1,159	247	..	..	219
	2017	5,343	1,942	1,328	435	..	1,221	264	..	..	153
	2018	5,330	1,790	1,370	465	..	1,325	250	..	..	130
Papua New Guinea	2015	631	257	0	70	215	34	..	5	43	5
	2016	1,368	548	0	135	509	106	..	13	43	14
	2017	1,378	543	0	141	520	100	..	17	45	13
	2018	*1,385	*546	..	*142	*523	*100	..	*17	*45	*13

Production, trade and supply of oil products

Thousand metric tons

Table Notes

Production refers to the production from refineries and plants of all oil products, together with quantities from other sources which include any blended biofuels.

Imports, Exports, Bunkers and Changes in stocks refer to all oil products.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description /classification, and xvi to xvii for the descriptions of relevant flows.

Figure 65: Production of oil products by region, 1990-2018

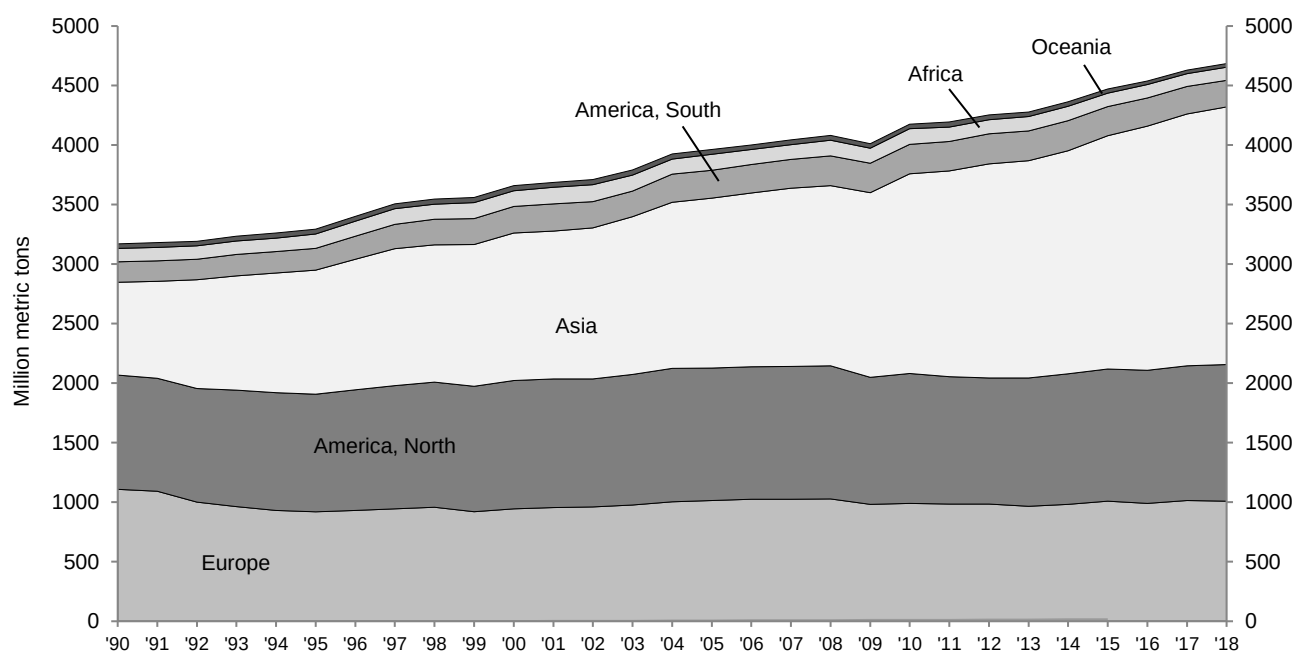


Table 25

Production, trade and supply of oil products

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
World	2015	4,469,982	1,338,985	1,385,433	378,477	14,396	4,030,661	546
	2016	4,538,614	1,379,769	1,449,611	387,813	3,515	4,077,443	546
	2017	4,629,160	1,430,053	1,493,780	405,372	-4,134	4,164,194	552
	2018	4,684,639	1,447,063	1,504,461	408,469	3,391	4,215,382	552
Africa	2015	113,377	117,463	44,341	12,688	-526	174,338	148
	2016	111,845	114,815	38,186	11,217	-63	177,320	146
	2017	107,818	120,921	38,358	11,853	22	178,505	144
	2018	110,841	117,314	37,627	13,211	-2,089	179,406	141
Algeria	2015	38,444	3,922	23,891	731	-119	17,863	450
	2016	37,854	3,573	23,346	*616	51	17,414	429
	2017	36,842	3,452	22,637	*591	-135	17,201	416
	2018	38,309	840	21,052	*648	504	16,945	401
Angola	2015	2,598	4,631	1,418	542	*-338	5,606	201
	2016	2,866	3,546	1,303	481	*-467	5,094	177
	2017	3,488	3,476	1,944	626	*-26	4,421	148
	2018	2,675	3,351	1,747	486	*-589	4,381	142
Benin	2015	..	1,684	0	36	37	1,611	152
	2016	..	1,945	..	33	-66	1,978	182
	2017	..	2,053	..	30	-35	2,058	184
	2018	..	2,302	..	30	-12	2,284	199
Botswana	2015	..	850	..	*9	..	840	396
	2016	..	930	..	11	..	919	425
	2017	..	946	..	11	..	935	424
	2018	..	990	..	12	..	978	434
Burkina Faso	2015	..	1,161	..	31	*88	1,042	58
	2016	..	944	..	22	-142	1,064	57
	2017	..	1,183	..	27	*-89	1,245	65
	2018	..	1,495	..	30	*101	1,364	69
Burundi	2015	..	132	..	3	0	129	13
	2016	..	145	..	2	0	144	14
	2017	..	*171	..	4	0	*167	*15
	2018	..	*221	..	*6	..	*215	*19
Cabo Verde	2015	..	*282	..	*119	..	*163	*310
	2016	..	*297	..	*120	..	*177	*334
	2017	..	*319	..	*128	..	*191	*355
	2018	..	*332	..	*133	..	*198	*365
Cameroon	2015	1,613	666	380	97	-15	1,817	78
	2016	1,596	693	531	21	-6	1,743	73
	2017	1,313	828	442	17	..	1,682	68
	2018	1,180	849	376	15	..	1,638	65
Central African Rep.	2015	..	*75	..	16	..	*59	*13
	2016	..	*81	..	15	..	*66	*15
	2017	..	*87	..	16	..	*71	*15
	2018	..	*90	..	17	..	*73	*16
Chad	2015	*774	*3	*481	*18	..	*278	*20
	2016	*677	*3	*382	*18	..	*280	*19
	2017	*677	*3	*381	*18	0	*281	*19
	2018	*689	*3	*386	*18	..	*287	*19
Comoros	2015	..	*59	..	*1	..	*58	*75
	2016	..	*70	..	*1	..	*69	*86
	2017	..	*89	..	*1	..	*88	*108
	2018	..	*97	..	*2	..	*95	*114

Table 25

Production, trade and supply of oil products

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Congo	2015	688	373	325	50	0	686	141
	2016	649	381	325	41	0	664	133
	2017	716	199	343	31	..	541	106
	2018	716	199	348	31	..	536	102
Côte d'Ivoire	2015	3,177	267	1,475	197	-150	1,922	83
	2016	3,192	1,232	1,392	238	0	2,793	117
	2017	*3,070	1,332	*1,097	*241	-17	*3,081	*126
	2018	3,371	1,244	1,491	231	..	2,893	115
Dem. Rep. of the Congo	2015	..	985	..	122	..	863	11
	2016	..	743	..	115	..	628	8
	2017	..	814	..	117	..	697	9
	2018	..	811	..	134	..	677	8
Djibouti	2015	..	254	..	109	17	128	140
	2016	..	231	..	100	*15	116	125
	2017	..	220	..	*100	*6	115	122
	2018	..	*219	..	*100	*10	*109	*113
Egypt	2015	26,961	15,709	2,293	687	-28	39,718	430
	2016	26,364	15,475	1,529	477	-25	39,858	422
	2017	25,118	14,297	1,428	631	35	37,321	387
	2018	27,382	12,572	3,277	713	0	35,964	365
Equatorial Guinea	2015	542	*297	553	*45	*-36	277	237
	2016	605	*306	604	*47	*-23	283	233
	2017	660	*319	656	49	-17	292	231
	2018	587	*282	574	44	*-10	261	199
Eritrea	2015	..	190	..	5	..	185	55
	2016	..	199	..	10	..	189	56
	2017	..	215	..	8	..	207	61
	2018	..	240	..	9	..	231	67
Eswatini	2015	..	240	..	*1	..	239	217
	2016	..	264	..	1	..	263	236
	2017	..	272	..	2	..	271	241
	2018	..	286	..	2	..	284	250
Ethiopia	2015	..	3,410	..	455	25	2,930	29
	2016	..	3,848	..	588	-8	3,268	32
	2017	..	4,108	..	682	..	3,426	32
	2018	..	4,377	..	728	..	3,649	33
Gabon	2015	801	502	246	248	..	809	415
	2016	849	515	269	249	..	846	421
	2017	793	282	243	163	9	660	320
	2018	799	274	244	168	..	661	312
Gambia	2015	..	*184	*2	*14	..	*169	*81
	2016	..	*186	*2	*14	..	*170	*79
	2017	..	*189	*2	*14	..	*173	*78
	2018	..	*192	*2	*15	..	*175	*77
Ghana	2015	89	3,726	10	108	-2	3,699	133
	2016	739	3,712	537	129	0	3,785	133
	2017	130	3,809	468	249	59	3,162	109
	2018	389	3,792	159	195	0	3,826	129
Guinea	2015	..	873	..	*25	..	847	74
	2016	..	954	..	*26	..	929	79
	2017	..	1,139	..	*26	..	1,114	92
	2018	..	1,287	..	*26	..	1,261	102

Table 25

Production, trade and supply of oil products

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Guinea-Bissau	2015	..	*127	..	*12	..	*115	*66
	2016	..	*136	..	*13	..	*124	*70
	2017	..	*137	..	*13	..	*125	*68
	2018	..	*140	..	*13	..	*127	*68
Kenya	2015	0	9,677	5,323	305	-82	4,131	86
	2016	0	6,830	1,759	705	0	4,367	89
	2017	0	6,638	1,669	770	0	4,199	84
	2018	..	5,378	26	723	..	4,629	90
Lesotho	2015	2	202	..	0	..	204	99
	2016	3	215	..	0	..	217	105
	2017	3	217	..	0	..	220	105
	2018	*3	227	..	0	..	230	109
Liberia	2015	..	376	..	*14	..	363	81
	2016	..	*435	..	*16	..	*419	*91
	2017	..	*384	..	*12	..	*372	*79
	2018	..	*331	..	*11	..	*321	*67
Libya	2015	4,950	6,580	1,133	134	..	10,263	1,599
	2016	4,643	5,851	1,077	138	..	9,279	1,429
	2017	5,510	5,670	1,375	276	..	9,529	1,448
	2018	6,542	5,468	1,723	337	..	9,950	1,490
Madagascar	2015	..	786	..	*41	14	731	30
	2016	..	886	..	42	64	779	31
	2017	..	920	..	44	-34	909	36
	2018	..	848	..	*45	-108	910	35
Malawi	2015	..	271	..	*6	..	265	16
	2016	..	317	..	*6	..	311	18
	2017	..	363	..	*7	..	356	20
	2018	..	423	..	*8	..	415	23
Mali	2015	..	*1,019	*12	*57	*-36	*986	*57
	2016	..	*1,104	10	*58	*30	*1,005	*56
	2017	..	*1,156	*10	*60	*14	*1,072	*58
	2018	..	*1,192	*10	*62	*10	*1,110	*58
Mauritania	2015	..	*986	..	*20	..	*966	*239
	2016	..	862	..	20	..	841	202
	2017	..	1,249	..	20	*48	1,181	276
	2018	..	1,652	..	22	*384	1,245	283
Mauritius	2015	..	1,281	..	425	15	841	668
	2016	..	1,468	*91	479	26	873	691
	2017	..	1,649	..	624	108	917	725
	2018	..	1,663	..	738	-14	940	741
Morocco	2015	3,155	10,773	438	767	528	12,195	347
	2016	0	12,524	12	779	-85	11,818	331
	2017	..	13,392	..	815	66	12,511	346
	2018	..	13,012	..	870	-15	12,157	332
Mozambique	2015	..	1,388	..	*45	-21	1,363	50
	2016	..	2,152	..	*46	*63	2,043	73
	2017	..	2,335	..	38	179	2,118	74
	2018	..	1,599	35	11	-1	1,554	53
Namibia	2015	..	1,217	4	38	..	1,175	508
	2016	..	1,284	4	38	..	1,242	527
	2017	..	1,284	4	37	..	1,243	517
	2018	..	1,257	4	37	..	1,216	497

Table 25

Production, trade and supply of oil products

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Niger	2015	565	109	*239	41	*18	376	19
	2016	572	71	296	45	*-92	393	19
	2017	*795	106	*362	*57	*21	*459	*21
	2018	742	64	*337	*45	*36	389	17
Nigeria	2015	1,618	16,345	121	714	-537	17,665	98
	2016	3,351	18,786	251	737	664	20,485	110
	2017	4,380	17,451	853	821	-117	20,274	106
	2018	2,692	19,630	246	981	-2,431	23,526	120
Rwanda	2015	..	308	..	*23	..	285	25
	2016	..	318	..	*22	*8	288	25
	2017	..	317	..	*28	*-3	292	24
	2018	..	345	..	*30	*-3	318	26
Sao Tome and Principe	2015	..	*49	..	*10	..	*39	*196
	2016	..	*52	..	*11	..	*41	*200
	2017	..	*54	..	*11	..	*43	*205
	2018	..	*55	..	*12	..	*43	*206
Senegal	2015	1,012	2,230	780	396	-23	2,089	143
	2016	1,124	2,119	857	351	-66	2,101	140
	2017	1,202	1,633	263	338	-15	2,249	146
	2018	981	2,101	*433	332	*120	2,197	139
Seychelles	2015	..	355	..	*197	0	158	1,666
	2016	..	395	..	*200	*20	175	1,833
	2017	..	412	..	220	*10	182	1,892
	2018	..	366	..	*184	0	182	1,875
Sierra Leone	2015	..	*302	..	*11	..	*292	*41
	2016	..	*310	..	*10	..	*300	*41
	2017	..	*313	..	*10	..	*302	*40
	2018	..	*325	..	*9	..	*316	*41
Somalia	2015	..	*276	..	70	..	*206	*15
	2016	..	*279	..	71	..	*208	*15
	2017	..	*279	..	71	..	*208	*14
	2018	..	*279	..	71	..	*208	*14
South Africa	2015	20,493	9,508	4,425	4,894	..	20,682	373
	2016	20,809	5,585	2,853	3,224	..	20,317	361
	2017	17,918	11,436	3,619	2,903	..	22,832	400
	2018	18,700	10,510	4,512	3,975	..	20,723	359
South Sudan	2015	..	623	..	68	..	555	52
	2016	..	553	..	68	..	485	45
	2017	..	477	..	74	..	403	37
	2018	..	421	..	59	..	362	33
St. Helena and Depend.	2015	..	3	..	..	..	3	562
	2016	..	4	..	..	..	4	753
	2017	..	3	..	..	..	3	536
	2018	..	4	..	..	..	4	655
Sudan	2015	3,853	1,704	96	*153	..	5,309	136
	2016	4,165	1,516	147	*182	0	5,352	134
	2017	3,609	2,447	122	*161	..	5,773	141
	2018	3,320	2,649	103	*146	..	5,721	137
Togo	2015	..	333	..	32	-22	323	44
	2016	..	522	..	53	-18	487	65
	2017	..	508	..	73	-20	455	59
	2018	..	480	..	62	-17	435	55

Table 25

Production, trade and supply of oil products

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Tunisia	2015	1,437	4,168	680	205	141	4,580	410
	2016	1,325	3,922	600	217	-7	4,437	393
	2017	1,029	4,186	430	258	-25	4,552	398
	2018	1,172	4,247	531	294	-54	4,648	402
Uganda	2015	..	1,489	..	108	..	1,381	36
	2016	..	1,551	..	98	..	1,454	37
	2017	..	1,741	..	102	..	1,639	40
	2018	..	1,792	..	108	..	1,683	39
United Rep. of Tanzania	2015	..	2,511	..	160	..	2,351	46
	2016	..	2,465	..	142	..	2,323	44
	2017	..	2,417	..	146	..	2,271	42
	2018	..	2,461	..	136	..	2,325	41
Zambia	2015	605	766	17	44	..	1,310	82
	2016	463	940	9	27	..	1,366	83
	2017	564	811	10	26	..	1,339	79
	2018	593	637	11	29	..	1,190	69
Zimbabwe	2015	..	1,227	..	30	..	1,197	87
	2016	..	1,091	..	47	..	1,044	74
	2017	..	1,135	..	57	..	1,078	76
	2018	..	1,414	..	69	..	1,345	93
America, North	2015	1,111,406	181,980	232,684	54,159	5,115	1,001,427	1,764
	2016	1,119,742	195,777	243,381	59,036	-546	1,013,648	1,770
	2017	1,130,415	203,335	262,540	63,489	-4,034	1,011,756	1,752
	2018	1,146,958	213,469	268,561	62,710	-626	1,029,782	1,769
Anguilla	2015	..	*50	..	..	..	*50	*3,509
	2016	..	*50	..	..	..	*50	*3,471
	2017	..	*46	..	..	..	*46	*3,146
	2018	..	*47	..	..	..	*47	*3,196
Antigua and Barbuda	2015	..	*233	*4	*68	..	*161	*1,721
	2016	..	*237	*4	*69	..	*164	*1,738
	2017	..	*237	*4	*69	..	*164	*1,722
	2018	..	*242	*4	*70	..	*168	*1,740
Aruba	2015	..	*389	..	*96	..	*293	*2,810
	2016	..	*384	..	*96	..	*288	*2,747
	2017	..	*390	..	*99	..	*291	*2,757
	2018	..	385	..	*100	..	284	2,687
Bahamas	2015	..	734	1	*140	*-110	703	1,880
	2016	..	510	0	*51	-193	652	1,725
	2017	..	647	*1	*100	*-144	690	1,809
	2018	..	867	..	*99	*-117	886	2,297
Barbados	2015	..	525	..	*126	22	377	1,320
	2016	..	527	..	*121	22	384	1,344
	2017	..	492	..	*133	13	346	1,209
	2018	..	468	..	*110	-5	363	1,266
Belize	2015	1	214	..	15	..	200	553
	2016	1	206	..	15	..	192	520
	2017	1	202	..	15	..	188	501
	2018	1	200	..	14	..	187	487
Bermuda	2015	..	185	..	*23	-17	179	2,804
	2016	..	216	..	*24	-10	202	3,191
	2017	..	248	..	*26	*15	207	3,287
	2018	..	256	..	*27	0	229	3,656

Table 25

Production, trade and supply of oil products

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Bonaire, St Eustatius, Saba	2015	..	*346	..	*224	..	*122	*4,957
	2016	..	*352	..	*226	..	*126	*5,037
	2017	..	*359	..	*230	..	*129	*5,095
	2018	..	*361	..	*231	..	*130	*5,053
British Virgin Islands	2015	..	*69	..	..	..	*69	*2,350
	2016	..	*69	..	..	..	*69	*2,334
	2017	..	*55	..	..	..	*55	*1,864
	2018	..	*52	..	..	..	*52	*1,745
Canada	2015	90,378	12,104	22,260	1,032	-768	79,958	2,219
	2016	91,515	13,578	21,044	928	-674	83,795	2,303
	2017	95,972	11,700	23,589	983	334	82,766	2,253
	2018	93,657	13,613	21,777	1,301	303	83,889	2,263
Cayman Islands	2015	..	216	..	32	..	184	2,988
	2016	..	217	..	36	..	181	2,898
	2017	..	229	..	38	..	191	3,015
	2018	..	238	..	37	..	202	3,140
Costa Rica	2015	..	2,460	1	*165	12	2,283	471
	2016	..	2,618	..	*185	-24	2,457	501
	2017	..	2,820	..	187	42	2,591	523
	2018	..	2,701	0	206	-68	2,564	513
Cuba	2015	4,526	3,318	*1,090	787	..	5,967	527
	2016	2,205	3,221	*424	820	*-28	4,210	371
	2017	2,632	3,423	*701	*628	..	4,726	417
	2018	2,751	3,030	*890	*509	..	4,382	387
Curaçao	2015	9,060	2,685	8,028	1,676	..	2,041	12,768
	2016	8,216	2,882	7,464	1,659	..	1,975	12,263
	2017	4,321	2,653	3,886	1,662	..	1,426	8,803
	2018	3,089	2,560	2,865	1,657	..	1,127	6,925
Dominica	2015	..	*58	..	*2	*-1	*58	*814
	2016	..	*59	..	*2	*-1	*58	*820
	2017	..	*56	..	*2	*2	*53	*743
	2018	..	*56	..	*2	*1	*53	*742
Dominican Republic	2015	764	5,266	..	490	-22	5,563	541
	2016	1,097	5,462	..	496	-13	6,076	584
	2017	899	5,175	..	539	30	5,505	524
	2018	1,208	5,387	..	544	-20	6,072	571
El Salvador	2015	0	2,243	20	149	..	2,074	328
	2016	0	2,360	136	166	..	2,058	324
	2017	..	2,184	167	165	..	1,852	290
	2018	..	2,297	158	174	..	1,965	306
Greenland	2015	..	188	..	7	15	166	2,938
	2016	..	183	..	17	1	165	2,924
	2017	..	196	..	19	7	170	3,010
	2018	..	*192	..	*20	*-1	*173	*3,060
Grenada	2015	..	86	..	6	-6	85	779
	2016	..	99	..	7	4	87	790
	2017	..	102	..	7	5	90	815
	2018	..	107	..	8	-2	101	905
Guatemala	2015	66	4,252	365	430	89	3,434	211
	2016	56	4,367	402	452	37	3,533	213
	2017	85	4,644	301	509	0	3,919	232
	2018	147	4,727	255	528	-86	4,177	242

Table 25

Production, trade and supply of oil products

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Haiti	2015	..	881	..	22	0	859	80
	2016	..	982	..	22	..	960	89
	2017	..	1,016	..	22	..	994	91
	2018	..	1,113	..	22	..	1,091	98
Honduras	2015	..	2,660	393	73	-655	2,849	313
	2016	..	2,814	232	84	-250	2,748	296
	2017	..	3,099	245	130	69	2,655	282
	2018	..	3,563	279	124	114	3,046	318
Jamaica	2015	1,221	1,551	265	232	2	2,273	786
	2016	1,094	1,725	264	232	-40	2,363	813
	2017	1,048	1,755	304	223	49	2,227	763
	2018	1,047	1,893	289	254	-21	2,418	824
Mexico	2015	63,692	33,449	9,821	4,079	-248	83,489	685
	2016	57,093	41,105	9,405	4,372	-20	84,441	685
	2017	50,322	49,222	7,997	4,518	-50	87,079	698
	2018	40,660	55,259	7,298	4,924	446	83,251	660
Montserrat	2015	..	19	..	*1	0	18	3,524
	2016	..	11	..	*1	0	10	1,928
	2017	..	10	..	*1	0	9	1,704
	2018	..	*10	..	*1	..	*9	*1,768
Nicaragua	2015	729	942	33	22	-51	1,667	268
	2016	656	1,101	17	22	12	1,706	271
	2017	673	1,046	21	25	-18	1,691	265
	2018	653	1,026	28	14	22	1,615	250
Panama	2015	..	6,166	3	3,714	-512	2,961	746
	2016	..	6,951	0	4,214	-153	2,891	716
	2017	..	8,049	0	4,961	-253	3,341	814
	2018	..	7,763	0	4,855	-34	2,943	704
Sint Maarten (Dutch part)	2015	..	*533	..	*248	..	*284	*7,111
	2016	..	*538	..	*250	..	*288	*7,054
	2017	..	*521	..	*240	..	*282	*6,795
	2018	..	*502	..	*232	..	*270	*6,443
St. Kitts-Nevis	2015	..	*81	..	*5	..	*76	*1,492
	2016	..	*84	..	*5	..	*79	*1,523
	2017	..	*84	..	*5	..	*79	*1,523
	2018	..	*85	..	*5	..	*80	*1,530
St. Lucia	2015	..	*194	..	35	..	*159	*888
	2016	..	*196	..	36	..	*160	*891
	2017	..	*207	..	38	..	*168	*931
	2018	..	*206	..	38	..	*168	*924
St. Pierre-Miquelon	2015	..	*27	..	*6	..	*21	*3,509
	2016	..	*28	..	*6	..	*21	*3,578
	2017	..	*28	..	*6	..	*21	*3,619
	2018	..	*25	..	*5	..	*20	*3,353
St. Vincent-Grenadines	2015	..	70	..	0	*-8	78	713
	2016	..	84	..	0	*4	80	734
	2017	..	60	..	0	*-11	70	641
	2018	..	85	..	0	*5	80	724
Trinidad and Tobago	2015	7,256	0	4,918	739	164	1,435	1,047
	2016	8,203	0	5,762	939	304	1,198	870
	2017	7,341	2	5,138	743	209	1,253	905
	2018	5,874	..	3,985	601	131	1,157	832

Production, trade and supply of oil products

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Turks and Caicos Islands	2015	..	*67	..	..	..	*67	*1,862
	2016	..	*70	..	..	..	*70	*1,901
	2017	..	*75	..	..	..	*75	*2,021
	2018	..	*77	..	..	..	*77	*2,031
United States	2015	933,713	99,718	185,482	39,515	7,209	801,225	2,497
	2016	949,606	102,494	198,227	43,485	476	809,912	2,507
	2017	967,121	102,303	220,186	47,165	-4,332	806,405	2,481
	2018	997,871	104,077	230,733	46,001	-1,294	826,508	2,527
America, South	2015	243,546	61,233	35,479	13,486	-1,737	257,552	625
	2016	237,650	65,272	36,510	11,988	470	253,953	611
	2017	229,323	71,477	35,668	11,788	72	253,272	604
	2018	223,172	68,739	39,135	12,373	-803	241,207	570
Argentina	2015	31,527	3,523	1,598	1,811	3	31,638	734
	2016	30,659	4,025	1,523	1,622	26	31,513	724
	2017	30,390	3,709	1,831	1,784	105	30,379	691
	2018	28,812	3,917	3,198	1,618	-50	27,963	630
Bolivia (Plur. State of)	2015	3,007	1,005	662	82	-171	3,439	316
	2016	2,910	992	499	81	-219	3,541	321
	2017	2,746	1,209	451	79	-320	3,745	335
	2018	2,632	1,408	289	77	-136	3,810	336
Brazil	2015	116,031	21,698	5,922	6,597	-377	125,587	614
	2016	112,325	22,486	5,593	5,677	12	123,529	599
	2017	109,396	28,215	5,908	5,578	298	125,827	605
	2018	107,133	25,559	8,545	5,360	-420	119,207	569
Chile	2015	9,685	7,215	488	665	47	15,700	874
	2016	9,429	8,097	463	683	93	16,287	894
	2017	9,648	7,827	521	721	146	16,087	871
	2018	9,726	8,130	812	772	53	16,219	866
Colombia	2015	11,778	6,287	2,518	1,573	-1,779	15,753	331
	2016	17,048	8,569	4,995	1,611	559	18,452	383
	2017	17,918	6,291	5,094	1,535	605	16,975	347
	2018	19,473	4,343	5,648	1,590	-3	16,581	334
Ecuador	2015	6,478	6,689	1,368	974	-91	10,915	673
	2016	7,929	5,609	2,519	535	-2	10,487	636
	2017	8,004	5,792	3,110	620	-56	10,122	603
	2018	8,546	6,142	3,138	977	20	10,553	618
Falkland Is. (Malvinas)	2015	..	11	..	..	..	11	3,784
	2016	..	11	..	..	..	11	3,692
	2017	..	10	..	..	..	10	3,409
	2018	..	11	..	..	..	11	3,438
Guyana	2015	..	663	..	13	7	643	838
	2016	..	736	..	16	2	718	931
	2017	..	721	..	18	-6	709	915
	2018	..	778	..	17	-4	765	982
Paraguay	2015	174	1,933	..	33	8	2,066	309
	2016	216	2,382	..	45	76	2,476	365
	2017	223	2,494	..	60	-119	2,776	404
	2018	244	2,787	..	72	20	2,939	423
Peru	2015	11,958	3,625	3,473	840	674	10,596	348
	2016	12,327	4,749	5,026	950	-51	11,150	361
	2017	12,913	5,554	6,166	678	-529	12,151	386
	2018	12,278	5,627	4,759	1,200	-282	12,227	382

Table 25

Production, trade and supply of oil products

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Suriname	2015	433	494	416	*81	..	429	768
	2016	536	443	452	93	..	434	768
	2017	674	451	383	84	..	658	1,153
	2018	660	445	370	*78	..	656	1,139
Uruguay	2015	1,945	447	0	269	-58	2,181	639
	2016	2,103	234	0	230	-26	2,133	623
	2017	658	1,523	1	201	-52	2,029	590
	2018	2,168	202	1	248	-1	2,122	615
Venezuela (Bolivar. Rep.)	2015	50,531	7,644	19,034	548	0	38,593	1,283
	2016	42,168	6,939	15,440	445	0	33,222	1,113
	2017	36,755	7,681	12,202	430	0	31,804	1,082
	2018	31,501	9,391	12,375	364	..	28,153	975
Asia	2015	1,959,000	551,729	542,114	177,168	4,559	1,786,888	403
	2016	2,049,020	556,534	601,427	181,497	1,197	1,821,433	407
	2017	2,117,066	585,673	623,761	187,936	7,023	1,884,019	417
	2018	2,164,305	599,001	637,250	191,157	8,919	1,925,981	422
Afghanistan	2015	..	1,580	..	*10	..	1,570	46
	2016	..	1,169	..	*10	..	1,159	33
	2017	..	1,072	..	*11	..	1,062	29
	2018	..	1,382	..	*11	..	1,371	37
Armenia	2015	..	340	0	*31	..	309	106
	2016	..	340	0	44	7	289	98
	2017	..	384	0	54	13	316	107
	2018	..	386	0	62	14	310	105
Azerbaijan	2015	6,451	281	2,330	315	-187	4,274	444
	2016	5,902	330	1,734	223	-139	4,413	453
	2017	5,600	466	1,174	203	50	4,638	471
	2018	6,004	320	1,324	152	171	4,678	470
Bahrain	2015	13,512	*586	11,893	436	-96	1,865	1,359
	2016	13,058	*552	11,182	435	139	1,854	1,300
	2017	13,303	*604	11,899	447	-380	1,941	1,299
	2018	13,227	*612	11,540	483	-184	2,000	1,274
Bangladesh	2015	1,432	4,039	40	446	48	4,937	32
	2016	1,336	3,970	100	462	-96	4,840	31
	2017	1,576	4,664	40	499	..	5,701	36
	2018	1,403	4,575	2	529	-831	6,277	39
Bhutan	2015	..	165	..	*3	..	163	223
	2016	..	174	..	*3	..	172	233
	2017	..	191	..	*3	..	188	252
	2018	..	223	..	*4	..	219	290
Brunei Darussalam	2015	486	313	0	174	5	620	1,494
	2016	322	373	0	113	-11	593	1,413
	2017	249	440	0	71	11	607	1,431
	2018	338	354	0	81	-5	616	1,436
Cambodia	2015	..	1,949	..	91	..	1,858	120
	2016	..	2,207	..	86	..	2,121	135
	2017	..	2,277	..	108	7	2,162	135
	2018	..	2,492	..	118	..	2,374	146
China	2015	603,236	52,760	40,869	16,790	2,643	595,694	423
	2016	633,757	53,843	53,042	18,026	-650	617,182	436
	2017	678,284	61,271	56,633	19,452	7,626	655,845	462
	2018	711,792	67,525	63,519	20,960	7,336	687,501	482

Production, trade and supply of oil products

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
China, Hong Kong SAR	2015	..	20,017	703	14,911	1,061	3,342	465
	2016	..	20,301	371	15,384	928	3,618	499
	2017	..	21,375	293	17,578	-397	3,900	534
	2018	..	21,605	224	17,869	-281	3,792	514
China, Macao SAR	2015	..	681	..	68	24	589	977
	2016	..	650	..	73	2	575	938
	2017	..	602	..	66	13	523	840
	2018	..	405	..	64	-1	342	542
Cyprus	2015	..	2,460	23	477	69	1,891	1,629
	2016	..	2,615	16	551	27	2,021	1,727
	2017	..	2,644	0	554	33	2,057	1,744
	2018	..	2,595	..	580	-22	2,037	1,713
Georgia	2015	12	1,357	111	70	11	1,178	293
	2016	25	1,496	119	71	-28	1,359	338
	2017	24	1,440	*170	95	-11	1,210	302
	2018	22	1,451	105	104	25	1,240	310
India	2015	246,200	38,100	63,358	*5,789	-1,298	216,451	165
	2016	255,853	35,336	65,483	*6,405	*57	219,244	166
	2017	264,330	49,726	74,501	*5,370	*10	234,175	175
	2018	277,047	41,702	71,763	*5,814	*98	241,074	178
Indonesia	2015	39,472	31,660	1,338	1,112	0	68,681	266
	2016	40,995	27,473	1,252	1,104	0	66,112	253
	2017	42,253	31,571	1,157	1,294	-41	71,414	270
	2018	43,444	30,990	1,168	1,232	128	71,905	269
Iran (Islamic Rep. of)	2015	106,047	2,886	21,082	6,189	..	81,662	1,040
	2016	112,075	2,584	29,068	3,547	..	82,044	1,031
	2017	110,001	3,536	26,910	*3,021	0	83,605	1,036
	2018	109,935	4,781	26,852	*3,063	..	84,800	1,037
Iraq	2015	20,489	12,117	454	751	-1,218	32,619	917
	2016	21,657	16,424	330	943	1	36,807	1,005
	2017	25,370	16,194	3,658	925	-29	37,010	986
	2018	28,688	13,771	1,304	910	..	40,245	1,047
Israel	2015	14,765	4,776	6,225	1,107	199	12,010	1,505
	2016	14,174	5,028	5,687	1,067	-75	12,523	1,544
	2017	14,088	4,805	5,745	1,263	3	11,882	1,441
	2018	14,783	4,549	5,952	1,380	-8	12,008	1,433
Japan	2015	167,617	44,127	17,885	10,309	-744	184,294	1,440
	2016	168,687	39,707	17,973	10,811	-223	179,833	1,408
	2017	162,881	43,392	17,136	10,825	-175	178,487	1,400
	2018	156,897	42,464	17,173	11,240	-187	171,135	1,345
Jordan	2015	3,286	3,204	..	106	18	6,366	687
	2016	2,861	2,333	..	174	16	5,004	524
	2017	2,671	2,689	..	140	129	5,090	520
	2018	2,281	2,665	..	62	-15	4,899	492
Kazakhstan	2015	14,599	1,631	4,337	*306	-512	12,099	689
	2016	14,094	1,794	4,001	*331	-493	12,049	676
	2017	14,833	1,922	4,289	*477	-380	12,369	684
	2018	16,079	1,536	5,511	616	43	11,445	625
Korea, Dem.Ppl's.Rep.	2015	515	441	..	..	..	956	38
	2016	515	511	..	..	..	1,026	41
	2017	515	424	..	..	..	939	37
	2018	515	416	..	..	..	931	36

Table 25

Production, trade and supply of oil products

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Korea, Republic of	2015	149,219	36,494	60,906	13,414	-199	111,592	2,196
	2016	156,422	39,328	62,396	15,008	-46	118,392	2,322
	2017	164,332	37,113	64,818	14,773	440	121,414	2,376
	2018	169,765	40,413	68,700	14,375	798	126,305	2,468
Kuwait	2015	49,003	..	35,080	1,980	-1,743	13,686	3,568
	2016	45,808	..	31,741	1,836	-2,527	14,758	3,730
	2017	40,932	..	27,376	1,881	-2,992	14,667	3,616
	2018	41,391	..	27,766	1,876	-3,078	14,827	3,584
Kyrgyzstan	2015	320	1,593	103	103	121	1,586	266
	2016	379	1,331	64	103	-118	1,661	273
	2017	431	1,250	75	19	38	1,549	250
	2018	544	1,653	134	4	23	2,036	323
Lao People's Dem. Rep.	2015	..	980	..	*34	..	947	140
	2016	..	*988	..	*34	..	*954	*139
	2017	..	*1,013	..	*34	..	*979	*141
	2018	..	*1,033	..	*36	..	*998	*141
Lebanon	2015	..	7,719	..	*235	..	7,484	1,146
	2016	..	8,033	..	*274	..	7,759	1,156
	2017	..	8,528	..	*300	..	8,228	1,207
	2018	..	8,055	..	*294	..	7,761	1,131
Malaysia	2015	25,048	13,805	10,093	2,777	-894	26,877	888
	2016	26,474	14,802	12,018	2,639	-878	27,497	896
	2017	28,620	12,835	10,861	2,885	-131	27,840	895
	2018	26,315	19,084	15,714	2,838	-298	27,145	861
Maldives	2015	..	508	..	*78	..	430	946
	2016	..	543	..	*70	..	473	995
	2017	..	565	..	*69	..	496	998
	2018	..	645	..	*78	..	567	1,099
Mongolia	2015	..	1,096	..	..	..	1,096	366
	2016	..	995	..	..	..	995	325
	2017	..	1,268	..	..	..	1,268	407
	2018	..	1,396	..	..	..	1,396	440
Myanmar	2015	523	3,571	..	2	714	3,377	64
	2016	404	4,564	..	..	196	4,773	90
	2017	418	3,858	..	..	-28	4,304	81
	2018	234	6,418	..	71	..	6,581	123
Nepal	2015	..	1,119	..	62	0	1,057	39
	2016	..	1,846	..	128	0	1,718	63
	2017	..	2,211	..	127	..	2,084	75
	2018	..	2,438	..	124	..	2,314	82
Oman	2015	11,053	47	1,439	1,713	60	7,888	1,848
	2016	11,130	60	1,400	1,861	163	7,766	1,734
	2017	11,950	335	1,979	1,271	4	9,031	1,936
	2018	13,716	552	4,051	2,769	*-159	7,607	1,575
Other Asia	2015	44,778	17,184	16,640	3,643	-401	42,080	1,786
	2016	45,114	17,405	17,020	4,030	-217	41,686	1,765
	2017	44,315	17,318	16,490	4,046	-370	41,467	1,752
	2018	46,317	16,577	17,710	4,071	-76	41,189	1,736
Pakistan	2015	12,298	14,795	107	360	331	26,294	132
	2016	12,765	17,483	243	340	54	29,611	145
	2017	14,322	15,497	345	*295	*-81	29,259	141
	2018	14,003	14,489	291	*250	-5	27,957	132

Table 25

Production, trade and supply of oil products

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Philippines	2015	9,811	9,866	1,390	1,260	523	16,504	162
	2016	10,089	10,817	1,321	1,365	133	18,086	174
	2017	9,847	12,172	1,550	1,702	174	18,594	177
	2018	11,110	12,085	1,757	1,733	390	19,315	181
Qatar	2015	23,269	602	19,333	1,209	2,512	817	318
	2016	23,753	540	19,144	1,719	2,699	731	275
	2017	26,470	115	20,810	2,747	-367	3,395	1,246
	2018	23,635	222	15,911	2,859	291	4,796	1,724
Saudi Arabia	2015	165,618	29,778	73,322	5,817	574	115,683	3,647
	2016	187,498	27,967	95,349	6,256	85	113,775	3,507
	2017	188,949	24,791	105,283	6,395	-611	102,673	3,102
	2018	186,113	42,095	114,138	6,964	451	106,655	3,165
Singapore	2015	46,212	114,131	89,919	52,052	1,016	17,357	3,104
	2016	50,852	113,629	97,029	55,920	-375	11,907	2,106
	2017	53,684	120,494	101,415	58,173	192	14,398	2,522
	2018	49,463	107,647	90,685	57,745	-557	9,238	1,604
Sri Lanka	2015	1,615	2,972	207	732	-786	4,434	212
	2016	1,647	3,634	89	1,117	-1,291	5,365	255
	2017	1,636	3,949	0	1,104	-822	5,304	251
	2018	1,607	4,114	91	1,117	-98	4,611	217
State of Palestine	2015	..	991	0	..	0	991	219
	2016	..	1,084	0	..	0	1,084	234
	2017	..	1,090	0	..	..	1,090	230
	2018	..	1,001	0	..	0	1,001	206
Syrian Arab Republic	2015	6,564	1,006	659	460	..	6,451	358
	2016	7,072	985	714	395	..	6,948	398
	2017	7,844	1,047	787	371	..	7,733	452
	2018	7,351	989	738	361	..	7,241	427
Tajikistan	2015	*22	983	*12	54	..	938	111
	2016	24	945	*9	35	..	925	107
	2017	23	784	..	18	..	789	89
	2018	46	935	..	29	..	953	105
Thailand	2015	65,933	5,416	13,602	4,867	2,052	50,828	740
	2016	65,346	6,518	10,981	5,190	3,321	52,372	759
	2017	67,059	6,547	12,006	5,314	3,585	52,701	761
	2018	68,330	6,598	13,015	5,875	3,770	52,268	753
Timor-Leste	2015	..	*167	..	*3	..	*164	*137
	2016	..	*164	..	*3	..	*161	*132
	2017	..	*166	..	*3	..	*163	*131
	2018	..	*169	..	*3	..	*166	*131
Turkey	2015	30,956	23,315	7,588	4,337	666	41,680	531
	2016	31,667	24,669	6,489	4,227	410	45,210	566
	2017	34,042	26,417	6,760	4,320	299	49,080	605
	2018	30,160	27,480	5,004	4,633	739	47,264	574
Turkmenistan	2015	9,224	..	2,554	470	..	6,200	1,114
	2016	9,178	..	2,554	470	..	6,154	1,087
	2017	9,187	..	2,554	470	..	6,163	1,070
	2018	9,233	..	2,554	470	..	6,209	1,061
United Arab Emirates	2015	57,093	21,869	36,312	*20,681	..	21,970	2,372
	2016	65,896	21,146	49,625	*16,800	*43	20,573	2,198
	2017	65,312	17,487	45,140	17,906	1,293	18,460	1,946
	2018	66,384	19,772	50,079	15,672	*38	20,444	2,123

Table 25

Production, trade and supply of oil products

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Uzbekistan	2015	3,654	*512	39	*92	47	3,987	129
	2016	3,653	*758	34	*91	-27	4,314	137
	2017	3,609	*779	*41	*73	9	4,266	133
	2018	3,847	*826	0	*90	114	4,469	138
Viet Nam	2015	7,663	12,898	1,509	1,101	-56	18,007	194
	2016	7,674	15,046	2,655	1,604	108	18,353	196
	2017	7,144	14,600	1,635	1,074	-90	19,125	202
	2018	11,282	13,734	2,165	1,380	372	21,099	221
Yemen	2015	1,006	2,844	651	142	..	3,057	115
	2016	864	2,044	*194	119	..	2,595	96
	2017	964	1,757	*230	112	..	2,379	85
	2018	1,006	1,780	*310	108	-1	2,369	83
Europe	2015	1,008,379	397,430	527,881	115,378	6,826	755,724	1,014
	2016	989,541	413,819	527,050	118,052	2,080	756,179	1,013
	2017	1,014,807	414,185	529,851	123,804	-6,811	782,149	1,046
	2018	1,009,314	411,593	518,213	122,130	-2,806	783,370	1,046
Albania	2015	288	1,193	171	22	109	1,179	408
	2016	183	1,208	19	40	127	1,205	417
	2017	503	1,230	155	42	170	1,366	474
	2018	291	1,075	145	37	84	1,100	382
Andorra	2015	..	152	..	0	..	152	1,946
	2016	..	154	..	0	..	154	1,988
	2017	..	153	..	0	..	153	1,992
	2018	..	162	..	0	..	162	2,101
Austria	2015	9,470	6,075	2,833	695	69	11,948	1,377
	2016	8,863	6,798	2,757	759	-130	12,275	1,403
	2017	8,790	6,987	2,757	734	-66	12,352	1,400
	2018	9,460	6,672	3,182	816	-90	12,224	1,375
Belarus	2015	23,196	1,165	17,310	111	-22	6,962	738
	2016	18,717	1,796	13,637	119	5	6,752	715
	2017	18,471	1,756	12,973	126	234	6,894	730
	2018	18,878	1,254	11,409	144	466	8,114	858
Belgium	2015	36,715	26,973	29,223	7,403	1,124	25,938	2,298
	2016	35,394	26,209	29,369	8,282	-254	24,206	2,132
	2017	37,250	28,712	33,791	9,308	-894	23,757	2,080
	2018	35,702	31,634	32,559	11,265	238	23,274	2,027
Bosnia and Herzegovina	2015	919	883	259	6	72	1,465	427
	2016	826	1,071	235	10	6	1,646	486
	2017	862	1,092	272	10	27	1,645	491
	2018	704	1,132	242	7	-36	1,623	488
Bulgaria	2015	6,681	2,883	4,448	259	54	4,803	667
	2016	6,942	2,838	4,568	285	103	4,824	675
	2017	7,145	2,658	4,794	313	5	4,691	660
	2018	6,189	2,168	3,530	331	-147	4,643	658
Croatia	2015	3,381	2,140	1,854	115	1	3,551	839
	2016	3,755	2,101	2,076	123	117	3,540	841
	2017	3,926	2,318	2,483	148	-50	3,663	876
	2018	3,968	2,189	2,426	197	89	3,445	829
Czechia	2015	7,973	3,903	2,465	285	12	9,114	860
	2016	5,946	4,869	2,225	306	-22	8,306	782
	2017	8,654	3,855	2,430	343	-84	9,820	923
	2018	8,273	4,402	2,265	396	150	9,864	925

Table 25

Production, trade and supply of oil products

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Denmark	2015	9,182	9,739	8,956	1,622	751	7,592	1,335
	2016	9,354	9,295	9,004	1,585	-175	8,235	1,442
	2017	9,019	5,674	6,746	1,474	-996	7,469	1,303
	2018	9,353	6,126	6,572	1,580	-453	7,780	1,353
Estonia	2015	..	1,686	332	346	9	999	760
	2016	..	1,815	479	323	12	1,001	760
	2017	..	1,890	431	377	79	1,003	760
	2018	..	2,059	690	365	-64	1,068	807
Faeroe Islands	2015	..	*229	..	31	..	*198	*4,130
	2016	..	*237	..	33	..	*204	*4,231
	2017	..	*267	..	37	..	*230	*4,753
	2018	..	*275	..	39	..	*236	*4,867
Finland	2015	13,278	5,264	6,848	923	410	10,361	1,890
	2016	14,749	5,919	9,065	915	-272	10,960	1,994
	2017	15,356	5,145	9,000	1,016	-176	10,661	1,934
	2018	15,118	4,813	8,807	1,086	-118	10,156	1,839
France	2015	64,935	43,270	21,070	7,221	-100	80,014	1,201
	2016	64,173	41,686	20,553	6,968	21	78,317	1,171
	2017	64,455	41,242	20,215	7,196	-42	78,328	1,168
	2018	60,433	42,353	19,973	7,566	-401	75,648	1,125
Germany	2015	108,775	37,436	22,302	10,274	391	113,244	1,385
	2016	109,616	38,760	22,833	11,284	720	113,539	1,381
	2017	111,005	41,065	23,497	11,639	-528	117,462	1,421
	2018	105,695	40,334	22,623	11,327	-494	112,573	1,354
Gibraltar	2015	..	3,993	..	3,782	..	211	6,253
	2016	..	4,064	..	3,843	..	221	6,550
	2017	..	4,505	..	4,278	..	227	6,743
	2018	..	4,427	..	4,177	..	250	7,409
Greece	2015	28,612	9,120	16,151	2,648	508	18,425	1,728
	2016	30,408	9,116	18,066	2,635	-173	18,996	1,790
	2017	31,960	9,633	18,961	3,171	252	19,209	1,817
	2018	32,968	9,626	19,973	3,326	-77	19,372	1,841
Hungary	2015	8,186	3,014	2,757	175	155	8,113	830
	2016	7,878	3,197	2,896	186	223	7,770	797
	2017	7,615	3,793	3,083	216	-12	8,121	835
	2018	8,198	4,133	3,554	267	-84	8,594	885
Iceland	2015	14	836	..	261	21	568	1,720
	2016	16	928	..	349	10	585	1,761
	2017	18	977	..	425	-4	574	1,717
	2018	19	1,129	..	484	63	601	1,785
Ireland	2015	3,473	5,383	1,772	951	45	6,088	1,309
	2016	3,287	5,717	1,634	977	-72	6,465	1,377
	2017	3,313	6,019	1,863	1,118	127	6,224	1,309
	2018	3,134	5,997	1,693	1,199	-110	6,349	1,318
Italy	2015	76,898	17,930	27,201	5,055	-648	63,220	1,043
	2016	73,946	20,429	28,880	5,506	-553	60,542	997
	2017	77,922	18,185	31,041	5,719	-108	59,455	979
	2018	75,196	19,149	28,975	6,549	45	58,776	969
Kosovo	2015	..	704	10	4	..	690	386
	2016	..	683	11	4	..	668	376
	2017	..	759	3	6	..	750	419
	2018	..	764	12	3	..	749	417

Table 25

Production, trade and supply of oil products

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Latvia	2015	31	2,705	948	361	56	1,371	686
	2016	18	2,739	806	436	174	1,341	679
	2017	15	2,541	750	398	16	1,392	713
	2018	46	2,433	868	187	-22	1,446	750
Lithuania	2015	9,009	2,338	8,289	156	69	2,833	966
	2016	9,856	2,090	8,483	259	3	3,201	1,108
	2017	10,094	1,335	8,216	282	-103	3,034	1,066
	2018	9,896	1,093	7,534	327	35	3,093	1,104
Luxembourg	2015	..	2,673	7	445	-19	2,240	3,952
	2016	..	2,700	10	493	0	2,197	3,793
	2017	..	2,852	25	558	-8	2,276	3,845
	2018	..	3,001	4	597	-8	2,408	3,986
Malta	2015	..	2,719	532	1,701	-48	534	1,232
	2016	..	2,690	273	1,935	43	439	1,007
	2017	..	2,885	152	2,302	103	328	749
	2018	..	3,013	355	2,436	-64	286	651
Montenegro	2015	..	302	16	18	-9	277	442
	2016	..	357	15	19	16	307	489
	2017	..	400	33	20	9	338	539
	2018	..	414	29	26	-3	362	577
Netherlands	2015	63,390	94,612	111,593	15,749	2,288	28,372	1,675
	2016	64,415	93,248	113,112	15,764	-603	29,390	1,731
	2017	63,944	90,598	111,473	15,645	-1,866	29,290	1,721
	2018	65,712	87,701	109,510	15,235	-999	29,667	1,739
North Macedonia	2015	0	1,143	173	..	-3	973	468
	2016	0	1,213	110	..	22	1,081	519
	2017	0	1,117	99	..	-4	1,022	491
	2018	..	1,095	127	..	-8	977	469
Norway	2015	25,192	5,322	18,192	690	201	11,431	2,198
	2016	22,684	5,760	16,943	574	-344	11,271	2,146
	2017	26,273	6,038	19,092	672	-186	12,733	2,404
	2018	26,399	5,750	20,433	710	188	10,818	2,027
Poland	2015	29,011	5,392	8,247	823	-190	25,523	671
	2016	28,280	7,416	7,125	847	145	27,579	726
	2017	28,102	9,763	5,196	1,092	324	31,253	823
	2018	29,896	9,263	5,914	1,247	135	31,863	840
Portugal	2015	15,631	3,707	6,802	1,682	42	10,812	1,043
	2016	15,417	3,563	6,681	1,908	35	10,356	1,003
	2017	15,995	3,758	6,915	2,051	-50	10,837	1,053
	2018	14,323	3,781	5,289	2,166	359	10,290	1,003
Republic of Moldova	2015	11	831	14	24	17	787	193
	2016	16	899	16	32	18	849	209
	2017	15	937	35	47	-9	879	217
	2018	10	1,014	27	54	0	943	233
Romania	2015	11,907	2,996	4,668	248	-105	10,092	506
	2016	12,236	2,905	5,099	279	129	9,634	487
	2017	12,527	3,229	4,968	320	2	10,466	533
	2018	12,649	3,258	5,284	137	-163	10,649	546
Russian Federation	2015	282,886	2,154	*132,022	22,339	-1,183	131,862	909
	2016	273,944	1,303	*124,764	21,139	590	128,754	886
	2017	281,548	1,266	*120,834	22,521	82	139,377	958
	2018	285,776	1,187	*120,131	*17,258	292	149,282	1,024

Table 25

Production, trade and supply of oil products

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Serbia	2015	3,490	1,020	765	86	-9	3,668	517
	2016	3,572	1,098	736	135	-34	3,833	542
	2017	3,787	1,087	855	142	44	3,832	544
	2018	4,014	1,001	923	152	55	3,885	555
Slovakia	2015	6,808	1,655	4,381	42	56	3,984	733
	2016	6,582	1,754	4,116	48	26	4,146	762
	2017	6,560	1,972	3,895	39	-62	4,660	855
	2018	6,348	1,944	3,540	46	47	4,659	854
Slovenia	2015	26	4,035	1,717	90	-9	2,263	1,093
	2016	16	4,548	2,045	145	7	2,367	1,141
	2017	24	4,717	2,081	182	80	2,398	1,155
	2018	74	4,753	2,112	263	-19	2,471	1,189
Spain	2015	66,221	18,956	23,243	11,407	1,557	48,970	1,049
	2016	66,288	21,295	25,130	11,680	468	50,305	1,079
	2017	67,341	23,204	27,578	11,191	-1,296	53,072	1,138
	2018	69,592	20,871	25,500	11,706	-347	53,604	1,148
Sweden	2015	22,346	7,810	15,061	2,563	1,046	11,486	1,176
	2016	22,303	10,748	16,838	2,832	986	12,395	1,260
	2017	22,317	10,014	17,884	3,231	-1,574	12,790	1,291
	2018	23,066	9,118	17,096	2,752	-570	12,906	1,294
Switzerland	2015	2,899	7,921	431	1,586	-335	9,138	1,096
	2016	3,108	7,759	477	1,658	79	8,653	1,028
	2017	3,038	7,717	384	1,714	-129	8,786	1,034
	2018	3,273	6,907	440	1,798	-428	8,370	977
Ukraine	2015	2,865	7,747	113	121	-28	10,406	232
	2016	2,866	9,417	64	*121	573	11,525	258
	2017	3,121	9,751	308	*121	-317	12,760	287
	2018	2,516	10,542	322	..	-68	12,804	289
United Kingdom	2015	64,680	37,421	24,705	13,058	471	63,867	970
	2016	63,887	41,428	25,900	13,216	54	66,145	998
	2017	63,843	41,088	24,584	13,579	198	66,570	998
	2018	62,145	41,580	24,146	13,871	-278	65,986	983
Oceania	2015	34,274	29,149	2,934	5,598	159	54,732	1,373
	2016	30,816	33,551	3,057	6,023	377	54,911	1,358
	2017	29,730	34,463	3,602	6,502	-406	54,495	1,329
	2018	30,050	36,946	3,675	6,890	796	55,636	1,338
Australia	2015	27,830	22,904	2,448	4,198	111	43,977	1,838
	2016	23,749	27,292	2,059	4,388	393	44,201	1,822
	2017	22,824	28,222	2,635	4,761	-287	43,937	1,787
	2018	23,147	30,128	2,732	5,041	842	44,660	1,794
Cook Islands	2015	..	*32	..	*11	..	*22	*1,226
	2016	..	*33	..	*11	..	*22	*1,280
	2017	..	*35	..	*11	..	*24	*1,390
	2018	..	*35	..	*11	..	*24	*1,389
Fiji	2015	..	821	297	*73	*50	401	462
	2016	..	764	345	*82	*51	388	445
	2017	..	801	296	*88	*14	431	491
	2018	..	*838	*301	*96	*13	*429	*485
French Polynesia	2015	..	286	..	24	*4	259	949
	2016	..	284	..	26	*9	250	909
	2017	..	287	..	26	*9	252	914
	2018	..	289	..	25	0	264	950

Table 25

Production, trade and supply of oil products

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Kiribati	2015	..	20	..	*1	..	19	174
	2016	..	19	..	0	..	18	160
	2017	..	24	..	*1	..	23	202
	2018	..	*24	..	*1	..	*23	*201
Marshall Islands	2015	..	*49	..	*2	..	*47	*813
	2016	..	*49	..	*2	..	*47	*809
	2017	..	*50	..	*2	..	*48	*820
	2018	..	*50	..	*2	..	*48	*823
Micronesia (Fed. States of)	2015	..	58	..	10	..	48	444
	2016	..	*58	..	*9	..	*49	*445
	2017	..	*58	..	*10	..	*49	*439
	2018	..	*59	..	*10	..	*49	*437
Nauru	2015	..	*26	..	*8	0	*18	*1,713
	2016	..	*26	..	*9	0	*17	*1,631
	2017	..	*26	..	*8	..	*18	*1,719
	2018	..	*25	..	*8	..	*18	*1,642
New Caledonia	2015	..	958	..	32	-3	930	3,429
	2016	..	951	..	29	-20	941	3,432
	2017	..	927	..	33	40	854	3,082
	2018	..	992	..	44	*19	928	3,316
New Zealand	2015	5,813	2,321	188	1,121	-15	6,840	1,482
	2016	5,699	2,728	211	1,345	95	6,776	1,454
	2017	5,528	2,658	236	1,444	-171	6,677	1,420
	2018	5,518	3,122	205	1,528	-90	6,997	1,475
Niue	2015	..	2	..	0	..	2	1,228
	2016	..	*2	..	*1	..	*2	*1,178
	2017	..	*2	..	0	..	*2	*1,140
	2018	..	*2	..	0	..	*2	*1,216
Palau	2015	..	*77	..	*10	..	*67	*3,808
	2016	..	*80	..	*11	..	*69	*3,919
	2017	..	*83	..	*12	..	*71	*3,992
	2018	..	*84	..	*13	..	*71	*3,942
Papua New Guinea	2015	631	1,274	0	*72	1	1,831	226
	2016	1,368	949	442	*72	-48	1,851	224
	2017	1,378	955	434	67	11	1,821	216
	2018	*1,385	*959	*437	*67	*11	*1,829	*213
Samoa	2015	..	101	0	12	*11	78	401
	2016	..	92	1	12	*-1	80	410
	2017	..	102	*1	*12	*6	83	427
	2018	..	95	*1	*12	0	81	414
Solomon Islands	2015	..	108	..	*9	..	99	164
	2016	..	*106	..	*9	..	*97	*156
	2017	..	*105	..	*9	..	*96	*150
	2018	..	*107	..	*9	..	*97	*149
Tonga	2015	..	44	..	*5	0	39	389
	2016	..	46	..	*3	0	42	417
	2017	..	55	..	*5	0	50	494
	2018	..	49	..	*4	..	45	437
Tuvalu	2015	..	*3	..	0	..	*2	*223
	2016	..	*3	..	0	..	*2	*216
	2017	..	*3	..	0	..	*3	*246
	2018	..	*3	..	0	..	*3	*257

Production, trade and supply of oil products

Thousand metric tons and kilograms per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Vanuatu	2015	..	56	..	*11	0	45	166
	2016	..	61	..	*11	0	50	181
	2017	..	59	..	*12	..	47	165
	2018	..	76	..	*17	..	59	201
Wallis and Futuna Is.	2015	..	9	..	1	..	8	636
	2016	..	9	..	1	..	8	676
	2017	..	9	..	1	..	8	675
	2018	..	9	..	1	..	8	702

Production of natural gas liquids – by end use

Thousand metric tons

Table Notes

Production refers to production of natural gas liquids.

End-use products refers to the output of natural gas liquids plants, arranged by product. **Net imports** refers to imports minus exports. **Inputs of NGLs to refineries** refers to quantities of natural gas liquids that are transformed in oil refineries. Data may not add up due to statistical differences or the presence of other natural gas liquid flows such as stock changes, transfers or energy industries own use.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description /classification, and xvi to xvii for the descriptions of relevant flows.

Figure 66: Production of natural gas liquids by region, 1990-2018

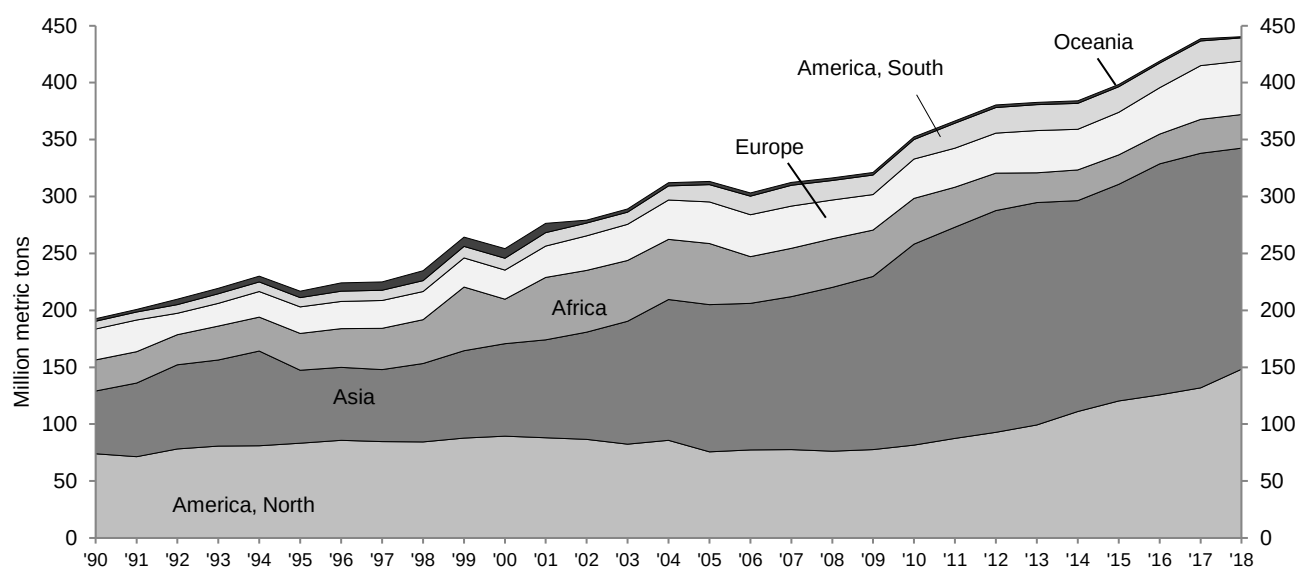


Figure 67: Production of natural gas liquids by end-use product, 2018

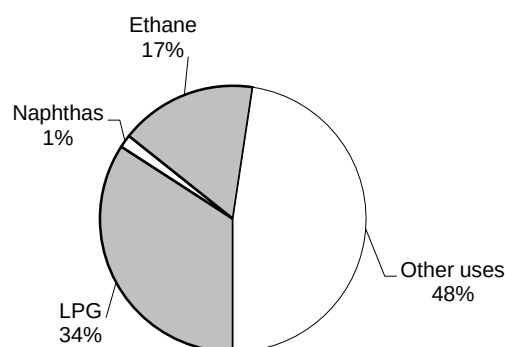


Table 26

Production of natural gas liquids - by end use

Thousand metric tons

Country or area	Year	Total production	End-use products				Net imports	Inputs of NGLs to refineries
			LPG	Naphthas	Ethane	Other products		
World	2015	398,362	140,342	9,887	58,293	8,545	-47,559	109,662
	2016	419,074	144,599	9,189	64,402	9,305	-56,541	110,466
	2017	438,522	150,684	6,332	66,390	10,021	-60,785	119,090
	2018	440,448	150,338	6,928	73,452	11,315	-57,164	117,398
Africa	2015	26,003	10,928	492	0	..	-9,783	4,965
	2016	26,183	11,162	459	0	..	-10,204	4,157
	2017	29,672	11,763	574	..	..	-12,994	4,900
	2018	29,616	11,516	736	..	..	-13,799	4,662
Algeria	2015	18,346	8,611	120	0	..	-5,016	4,797
	2016	17,924	8,593	101	0	..	-5,209	4,097
	2017	17,744	8,412	113	..	..	-4,200	4,813
	2018	17,220	8,314	81	..	..	-4,290	4,574
Angola	2015	0	0	..	..	..	0	..
	2016	904	225	..	..	..	-810	..
	2017	3,962	941	..	..	..	-3,803	..
	2018	4,091	822	..	..	..	-4,341	..
Congo	2015	301	..	..	..	..	-280	21
	2016	301	..	..	..	..	-280	21
	2017	301	..	..	..	..	-276	24
	2018	301	..	..	..	..	-276	25
Côte d'Ivoire	2015	5	5	..	..	..	..	..
	2016	6	6	..	..	..	..	..
	2017	6	6	..	..	..	..	..
	2018	5	5	..	..	..	..	..
Egypt	2015	1,366	1,366	..	..	..	..	..
	2016	1,312	1,312	..	..	..	..	..
	2017	1,230	1,230	..	..	..	..	..
	2018	1,299	1,299	..	..	..	..	..
Equatorial Guinea	2015	542	542	..	..	..	..	..
	2016	605	605	..	..	..	..	..
	2017	660	660	..	..	..	..	..
	2018	587	587	..	..	..	..	..
Ghana	2015	..	..	..	..	..	..	..
	2016	..	..	..	..	..	..	..
	2017	112	114	..	..	..	..	..
	2018	80	80	..	..	..	..	..
Libya	2015	2,109	272	372	..	..	-1,465	..
	2016	2,108	281	358	..	..	-1,469	..
	2017	2,831	277	461	..	..	-2,093	..
	2018	3,375	292	655	..	..	-2,428	..
Nigeria	2015	2,970	..	..	..	..	-2,948	..
	2016	2,747	..	..	..	..	-2,366	..
	2017	2,557	..	..	..	..	-2,553	..
	2018	2,424	..	..	..	..	-2,413	..
South Africa	2015	147	..	..	..	..	..	147
	2016	39	..	..	..	..	..	39
	2017	63	..	..	..	..	..	63
	2018	63	..	..	..	..	..	63
Tunisia	2015	217	132	..	..	..	-74	..
	2016	237	140	..	..	..	-70	..
	2017	206	123	..	..	..	-69	..
	2018	172	118	..	..	..	-51	..

Table 26

Production of natural gas liquids - by end use

Thousand metric tons

Country or area	Year	Total production	End-use products				Net imports	Inputs of NGLs to refineries
			LPG	Naphthas	Ethane	Other products		
America, North	2015	120,377	47,531	..	26,702	2,853	-8,709	19,992
	2016	125,842	47,228	..	29,861	3,109	-9,583	20,166
	2017	132,039	49,919	..	32,996	3,481	-9,852	20,936
	2018	148,229	56,357	..	38,883	3,609	-11,476	20,950
Belize	2015	*1	1	..	..	..	..	..
	2016	*1	1	..	..	..	..	..
	2017	*1	1	..	..	..	..	..
	2018	*1	1	..	..	..	..	..
Canada	2015	13,807	..	..	..	..	-1,995	1,175
	2016	15,938	..	..	..	..	-2,202	1,156
	2017	15,946	..	..	..	..	-3,348	1,400
	2018	17,550	..	..	..	..	-4,300	1,700
Curaçao	2015	..	..	..	..	..	56	..
	2016	..	..	..	..	..	51	..
	2017	..	..	..	..	..	36	..
	2018	..	..	..	..	..	27	..
Mexico	2015	9,218	4,501	..	2,230	..	..	2,296
	2016	8,691	4,181	..	2,216	..	..	2,110
	2017	7,920	3,807	..	2,106	..	..	1,866
	2018	6,764	3,357	..	1,767	..	..	1,549
Trinidad and Tobago	2015	1,032	597	..	..	477	..	..
	2016	865	499	..	..	401	..	..
	2017	921	547	..	..	406	..	..
	2018	805	454	..	..	388	..	..
United States	2015	96,319	42,432	..	24,472	2,376	-6,770	16,521
	2016	100,347	42,547	..	27,645	2,708	-7,432	16,900
	2017	107,251	45,564	..	30,890	3,075	-6,540	17,670
	2018	123,109	52,545	..	37,116	3,221	-7,203	17,701
America, South	2015	22,297	7,897	..	907	3,716	-244	7,595
	2016	21,497	7,515	108	1,022	3,540	-244	7,677
	2017	21,745	7,376	108	980	3,423	-256	7,411
	2018	20,305	7,569	20	1,102	3,280	-263	6,638
Argentina	2015	3,547	1,705	..	907	0	-244	691
	2016	3,478	1,537	..	1,022	0	-244	675
	2017	3,435	1,573	..	980	..	-256	626
	2018	3,859	1,747	..	1,102	..	-263	747
Bolivia (Plur. State of)	2015	940	322	..	..	..	..	564
	2016	1,047	421	..	..	..	..	564
	2017	1,057	418	..	..	..	..	573
	2018	1,032	443	..	..	..	..	527
Brazil	2015	5,629	1,431	..	..	1,698	..	817
	2016	5,349	1,450	108	..	1,462	..	1,206
	2017	6,201	1,456	108	..	1,465	..	1,363
	2018	5,517	1,334	20	..	1,580	..	1,664
Chile	2015	38	..	..	..	..	..	..
	2016	41	..	..	..	..	..	..
	2017	108	..	..	..	..	..	..
	2018	224	..	..	..	..	..	..
Colombia	2015	260	260	..	..	..	..	..
	2016	262	262	..	..	..	..	..
	2017	322	322	..	..	..	..	..
	2018	298	298	..	..	..	..	..

Table 26

Production of natural gas liquids - by end use

Thousand metric tons

Country or area	Year	Total production	End-use products				Net imports	Inputs of NGLs to refineries
			LPG	Naphthas	Ethane	Other products		
Ecuador	2015	161	96	..	..	65	..	..
	2016	176	97	..	..	79	..	..
	2017	174	100	..	..	78	..	..
	2018	125	145	..	..	71	..	0
Peru	2015	3,447	1,460	..	..	1,824	..	..
	2016	3,491	1,435	..	..	1,891	..	..
	2017	3,336	1,351	..	..	1,773	..	..
	2018	3,141	1,282	..	..	1,540	..	..
Venezuela (Bolivar. Rep.)	2015	8,275	2,623	..	..	129	..	*5,523
	2016	7,653	2,313	..	..	108	..	*5,232
	2017	7,112	2,156	..	..	107	..	*4,849
	2018	6,109	2,320	..	..	89	..	*3,700
Asia	2015	190,341	64,283	8,635	28,021	1,858	-36,881	48,181
	2016	202,830	69,216	7,461	30,699	2,656	-43,420	47,247
	2017	206,037	71,728	4,559	29,699	3,006	-46,785	46,458
	2018	194,276	66,389	5,233	30,876	4,124	-38,648	46,928
Azerbaijan	2015	2,634	15	26	..	..	-2,267	326
	2016	2,835	14	23	..	..	-2,494	304
	2017	2,688	12	20	..	..	-2,357	299
	2018	2,921	12	20	..	..	-2,510	379
Bahrain	2015	350	..	..	..	..	-351	..
	2016	356	..	..	..	..	-367	..
	2017	337	..	..	..	..	-315	..
	2018	385	..	..	..	..	-365	..
Bangladesh	2015	294	7	..	..	178	0	85
	2016	321	8	..	..	154	..	146
	2017	409	6	..	..	138	..	256
	2018	407	6	..	..	148	..	243
Brunei Darussalam	2015	621	18	..	..	..	-471	135
	2016	513	16	..	..	..	-435	85
	2017	544	17	..	..	..	-464	81
	2018	518	17	..	..	..	-392	126
India	2015	*4,016	489	2,517	..	..	..	..
	2016	*4,295	358	2,339	..	..	..	..
	2017	*4,609	2,210	1,220	..	..	..	..
	2018	*4,932	*2,086	*1,250	..	..	..	..
Indonesia	2015	4,886	1,631	..	..	894	-1,716	*189
	2016	4,857	1,410	..	..	1,792	649	..
	2017	4,285	1,162	..	..	*2,168	423	185
	2018	4,084	1,143	..	..	3,414	241	67
Iran (Islamic Rep. of)	2015	22,532	1,860	..	10,176	..	-7,625	2,287
	2016	26,429	2,138	..	11,672	..	-16,438	2,243
	2017	30,250	2,720	..	10,336	..	-18,177	2,567
	2018	31,025	2,656	..	10,735	..	-15,821	2,633
Iraq	2015	1,021	795	..	..	..	..	226
	2016	1,609	1,253	..	..	..	..	356
	2017	1,861	1,449	..	..	..	..	412
	2018	1,978	1,540	..	..	..	..	438
Japan	2015	242	..	..	..	..	6,498	6,490
	2016	236	..	..	..	..	6,004	6,149
	2017	240	..	..	..	..	2,049	2,055
	2018	215	..	..	..	..	1,725	1,870

Table 26

Production of natural gas liquids - by end use

Thousand metric tons

Country or area	Year	Total production	End-use products				Net imports	Inputs of NGLs to refineries
			LPG	Naphthas	Ethane	Other products		
Kazakhstan	2015	12,936	1,241	..	..	..	-11,695	..
	2016	12,462	*1,267	..	..	..	-11,195	..
	2017	13,270	1,238	..	..	..	-12,032	..
	2018	1,493	1,493	..	..	..	..	..
Kuwait	2015	6,838	4,745	..	2,093	..	..	..
	2016	7,961	5,868	..	2,093	..	..	..
	2017	8,781	6,688	..	2,093	..	..	..
	2018	8,942	6,849	..	2,093	..	..	..
Malaysia	2015	1,522	1,106	..	..	..	..	..
	2016	2,456	1,893	..	..	..	..	..
	2017	2,338	1,838	243	..	..	..	..
	2018	2,398	1,906	230	..	..	..	..
Myanmar	2015	8	4	4	..	..	..	..
	2016	10	6	4	..	..	..	..
	2017	12	8	4	..	..	..	..
	2018	13	7	3	..	3	..	..
Oman	2015	241	241	..	..	..	..	..
	2016	254	254	..	..	..	..	..
	2017	238	238	..	..	..	..	..
	2018	239	239	..	..	..	..	..
Pakistan	2015	467	467	..	..	..	1,235	..
	2016	489	489	..	..	..	3,656	..
	2017	571	*571	..	..	..	5,882	..
	2018	564	*564	..	..	..	6,922	..
Qatar	2015	39,625	9,782	..	1,573	..	-20,008	8,271
	2016	42,516	9,830	..	1,070	..	-22,439	9,188
	2017	42,546	9,682	..	960	..	-20,144	11,760
	2018	39,177	6,942	..	1,006	..	-18,840	12,390
Saudi Arabia	2015	45,615	25,931	*2,630	10,680	..	-153	9,624
	2016	47,837	27,829	*865	12,408	..	..	9,473
	2017	46,923	27,469	*350	12,590	..	4,095	8,416
	2018	47,596	25,264	*961	13,356	..	4,341	8,494
Syrian Arab Republic	2015	76	76	..	..	..	..	..
	2016	76	76	..	..	..	..	..
	2017	76	76	..	..	..	..	..
	2018	76	76	..	..	..	..	..
Thailand	2015	6,382	4,216	..	2,199	..	-65	..
	2016	6,415	4,377	..	2,059	..	-54	..
	2017	6,759	4,473	..	2,333	..	-33	..
	2018	6,816	4,565	..	2,388	..	-18	..
Turkmenistan	2015	980	674	..	..	..	..	306
	2016	934	638	..	..	..	..	296
	2017	943	655	..	..	..	..	288
	2018	989	707	..	..	..	..	282
United Arab Emirates	2015	35,808	10,723	*3,458	1,300	..	..	18,423
	2016	36,712	11,090	*4,230	*1,397	..	..	17,169
	2017	34,913	10,802	*2,722	1,387	..	-5,359	18,164
	2018	35,981	9,886	*2,769	1,298	..	-13,540	17,861
Uzbekistan	2015	1,728	..	..	..	..	97	1,819
	2016	1,747	..	..	..	..	91	1,839
	2017	1,953	..	..	..	..	23	1,976
	2018	2,145	..	..	..	..	0	2,145

Table 26

Production of natural gas liquids - by end use

Thousand metric tons

Country or area	Year	Total production	End-use products				Net imports	Inputs of NGLs to refineries
			LPG	Naphthas	Ethane	Other products		
Viet Nam	2015	1,052	156	..	..	786	..	..
	2016	1,017	308	..	..	710	..	..
	2017	1,017	317	..	..	700	..	..
	2018	979	420	..	..	559	..	..
Yemen	2015	107	107	..	..	..	..	..
	2016	95	*95	..	..	..	..	..
	2017	*97	*97	..	..	..	..	..
	2018	12	12	..	..	..	..	..
Europe	2015	37,360	7,727	760	2,663	118	8,067	28,929
	2016	40,901	7,661	1,161	2,820	0	6,914	31,219
	2017	47,307	8,181	1,091	2,715	111	9,105	39,384
	2018	46,944	7,430	939	2,591	302	7,024	38,220
Austria	2015	21	..	..	..	..	31	53
	2016	6	..	..	..	..	0	6
	2017	37	..	..	..	..	..	37
	2018	18	..	..	..	..	..	18
Belarus	2015	66	..	..	..	..	..	..
	2016	63	..	..	..	..	..	..
	2017	74	..	..	..	..	..	..
	2018	100	..	..	..	..	..	..
Belgium	2015	..	..	..	..	..	114	45
	2016	..	..	..	..	..	58	46
	2017	..	..	..	..	..	23	0
	2018	..	..	..	..	..	21	..
Croatia	2015	56	39	..	0	..	..	17
	2016	59	40	..	..	..	..	19
	2017	64	42	..	..	..	..	22
	2018	58	38	..	..	..	..	19
Finland	2015	..	..	..	..	..	815	765
	2016	..	..	..	..	..	904	938
	2017	..	..	..	..	..	1,367	1,272
	2018	..	..	..	..	..	1,189	1,261
France	2015	0	..	..	..	0	489	138
	2016	0	..	..	..	0	794	404
	2017	..	..	..	..	0	626	136
	2018	..	..	..	..	0	335	..
Hungary	2015	232	198	..	..	..	120	101
	2016	260	121	..	..	..	0	117
	2017	282	89	..	..	..	-19	130
	2018	242	75	..	..	..	..	159
Lithuania	2015	..	..	..	..	..	198	198
	2016	..	..	..	..	..	0	0
	2017	..	..	..	..	..	..	..
	2018	..	..	..	..	..	..	..
Montenegro	2015	..	..	..	..	..	..	..
	2016	..	..	..	..	..	..	..
	2017	..	..	..	..	..	..	..
	2018	..	..	..	..	..	4	..
Netherlands	2015	402	..	..	..	118	6,638	3,575
	2016	291	..	..	..	..	6,019	3,042
	2017	240	..	..	..	111	6,919	4,141
	2018	204	..	..	..	302	6,053	3,202

Table 26

Production of natural gas liquids - by end use

Thousand metric tons

Country or area	Year	Total production	End-use products				Net imports	Inputs of NGLs to refineries
			LPG	Naphthas	Ethane	Other products		
Norway	2015	9,848	6,398	760	1,667	..	..	..
	2016	10,263	6,433	1,161	1,636	..	..	..
	2017	10,504	6,902	1,091	1,483	..	..	..
	2018	10,006	6,474	939	1,477	..	..	..
Romania	2015	101	..	..	..	..	0	96
	2016	116	..	..	..	..	-33	77
	2017	96	..	..	..	..	-24	66
	2018	91	..	..	..	..	-16	63
Russian Federation	2015	23,483	..	..	..	..	-1,122	22,354
	2016	26,019	..	..	..	..	-1,274	24,832
	2017	31,862	..	..	..	..	-1	31,874
	2018	32,199	..	..	..	..	-229	31,963
Serbia	2015	31	..	..	..	..	65	96
	2016	33	..	..	..	..	60	93
	2017	35	..	..	..	..	40	76
	2018	34	..	..	..	..	2	36
Slovakia	2015	2	..	..	..	..	..	2
	2016	2	..	..	..	..	..	2
	2017	2	..	..	..	..	..	2
	2018	2	..	..	..	..	..	2
Ukraine	2015	656	..	..	..	..	..	642
	2016	650	..	..	..	..	14	665
	2017	665	..	..	..	..	109	762
	2018	669	..	..	..	..	44	704
United Kingdom	2015	2,462	1,092	..	996	..	719	847
	2016	3,139	1,067	..	1,184	..	372	978
	2017	3,446	1,148	..	1,232	..	65	867
	2018	3,320	843	..	1,114	..	-378	793
Oceania	2015	1,984	1,976	..	..	..	-9	..
	2016	1,821	1,817	..	..	..	-5	..
	2017	1,722	1,717	..	..	..	-2	..
	2018	1,077	1,077	..	..	..	-2	..
Australia	2015	1,779	1,779	..	..	..	..	..
	2016	1,644	1,644	..	..	..	..	..
	2017	1,536	1,536	..	..	..	..	..
	2018	893	893	..	..	..	..	..
New Zealand	2015	205	197	..	..	..	-9	..
	2016	177	173	..	..	..	-5	..
	2017	186	181	..	..	..	-2	..
	2018	184	184	..	..	..	-2	..

Production, trade and supply of natural gas

Terajoules

Table Notes

Production includes quantities from other sources, which would include any quantities of biogas, LPG or manufactured gas blended with natural gas.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description /classification, and xvi to xvii for the descriptions of relevant flows.

Figure 68: Production of natural gas by region, 1990-2018

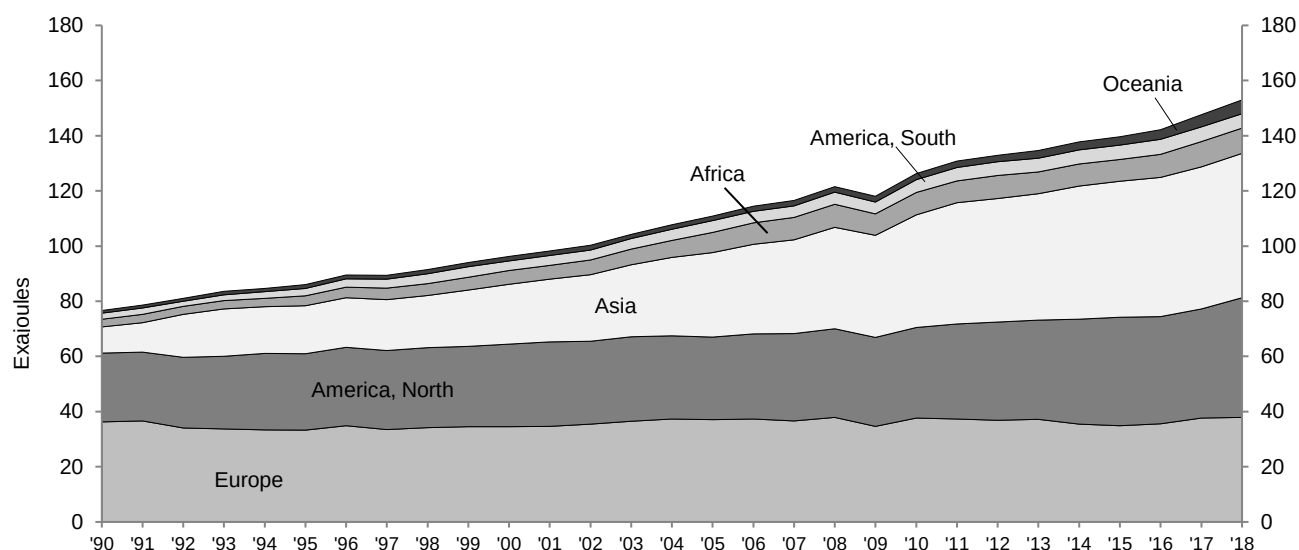


Figure 69: Major natural gas producing countries, 2018

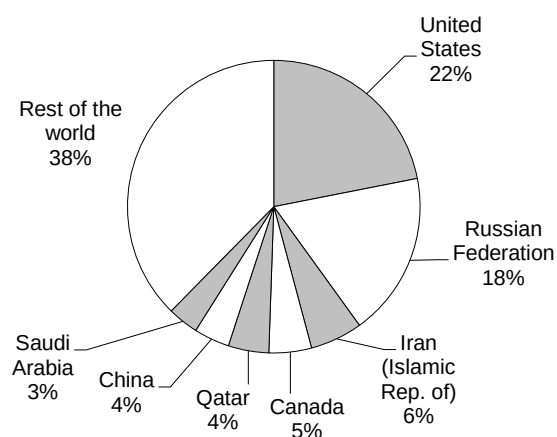


Figure 70: Major natural gas consuming countries, 2018

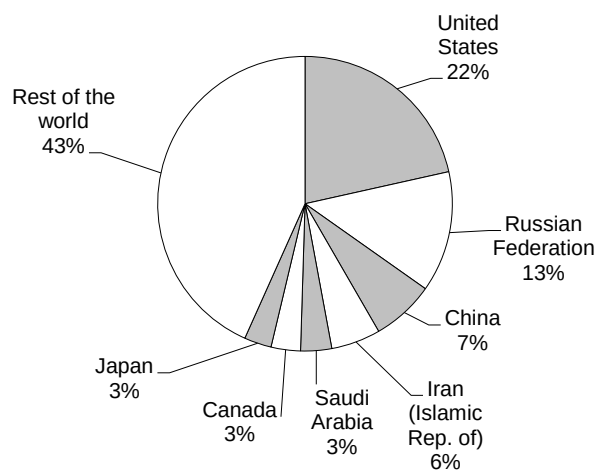


Table 27

Production, trade and supply of natural gas

Terajoules and megajoules per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
World	2015	139,616,069	40,786,610	41,215,024	700,133	138,487,521	18,766
	2016	142,175,769	42,142,716	42,749,608	-996,597	142,565,474	19,100
	2017	147,634,231	45,635,466	46,727,453	426,021	146,116,223	19,359
	2018	152,983,826	45,793,727	46,061,844	-828,336	153,544,045	20,121
Africa	2015	7,906,123	606,794	3,352,691	..	5,160,226	4,368
	2016	8,369,234	680,560	3,638,868	..	5,410,925	4,465
	2017	9,118,989	636,117	3,977,096	2,888	5,775,122	4,646
	2018	9,141,928	594,773	3,863,893	2,068	5,870,740	4,605
Algeria	2015	3,322,561	..	1,721,361	..	1,601,200	40,304
	2016	3,705,161	..	2,105,807	..	1,599,354	39,440
	2017	3,784,257	..	2,107,290	2,888	1,674,079	40,447
	2018	3,815,473	..	2,006,499	2,068	1,806,906	42,789
Angola	2015	29,260	..	0	..	29,260	1,049
	2016	64,980	..	34,580	..	30,400	1,054
	2017	220,400	..	188,480	..	31,920	1,071
	2018	235,220	..	202,540	..	32,680	1,061
Benin	2015	..	1,211	..	..	1,211	115
	2016	..	76	..	..	76	7
	2017	..	1,526	..	..	1,526	137
	2018	..	750	..	..	750	65
Botswana	2015	..	89	..	..	89	42
	2016	..	..	..	..	..	..
	2017	..	..	..	..	..	..
	2018	..	..	..	..	..	..
Cameroon	2015	19,176	..	..	..	19,176	823
	2016	20,710	..	..	..	20,710	866
	2017	23,011	..	..	..	23,011	937
	2018	61,363	..	31,160	..	30,203	1,198
Congo	2015	19,968	..	..	..	19,968	4,112
	2016	22,868	..	..	..	22,868	4,591
	2017	24,045	..	..	..	24,045	4,705
	2018	24,045	..	..	..	24,045	4,585
Côte d'Ivoire	2015	78,464	..	..	..	78,464	3,378
	2016	97,045	..	..	..	97,045	4,074
	2017	87,679	..	..	..	87,679	3,588
	2018	79,833	..	..	..	79,833	3,185
Dem. Rep. of the Congo	2015	46	..	..	..	46	1
	2016	14	..	..	..	14	0
	2017	12	..	..	..	12	0
	2018	15	..	..	..	15	0
Egypt	2015	1,455,476	264,963	9,793	..	1,710,646	18,505
	2016	1,616,921	363,005	52,356	..	1,927,570	20,409
	2017	1,994,593	299,840	90,707	..	2,203,726	22,850
	2018	1,909,150	218,726	40,195	..	2,087,681	21,211
Equatorial Guinea	2015	290,371	..	195,919	..	94,452	80,827
	2016	307,313	..	196,433	..	110,880	91,246
	2017	321,430	..	196,432	..	124,998	99,047
	2018	302,441	..	214,952	..	87,489	66,838
Gabon	2015	20,735	..	..	..	20,735	10,646
	2016	20,773	..	..	..	20,773	10,346
	2017	18,360	..	..	..	18,360	8,892
	2018	17,872	..	..	..	17,872	8,433

Table 27

Production, trade and supply of natural gas

Terajoules and megajoules per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Gambia	2015	..	*105	..	..	*105	*50
	2016	..	*106	..	..	*106	*49
	2017	..	*107	..	..	*107	*48
	2018	..	*108	..	..	*108	*48
Ghana	2015	27,846	21,763	..	..	49,609	1,781
	2016	24,573	4,223	..	..	28,796	1,011
	2017	35,607	12,358	..	..	47,965	1,647
	2018	34,366	26,712	..	..	61,078	2,052
Guinea	2015	3	..	..	..	3	0
	2016	3	..	..	..	3	0
	2017	3	..	..	..	3	0
	2018	4	..	..	..	4	0
Libya	2015	588,734	..	270,180	..	318,554	49,632
	2016	591,678	..	182,400	..	409,278	63,042
	2017	543,752	..	174,800	..	368,952	56,066
	2018	527,439	..	171,000	..	356,439	53,371
Morocco	2015	3,081	44,154	..	..	47,235	1,342
	2016	2,836	45,198	..	..	48,034	1,347
	2017	2,870	44,819	..	..	47,689	1,320
	2018	3,069	39,927	..	..	42,996	1,175
Mozambique	2015	190,314	..	154,898	..	35,416	1,310
	2016	194,225	..	163,008	..	31,217	1,122
	2017	192,403	..	164,008	..	28,395	991
	2018	192,468	..	159,007	..	33,461	1,134
Nigeria	2015	1,660,131	..	1,000,540	..	659,591	3,641
	2016	1,531,400	..	903,640	..	627,760	3,376
	2017	1,713,800	..	1,054,880	..	658,920	3,452
	2018	1,774,600	..	1,038,540	..	736,060	3,758
Rwanda	2015	*240	..	..	..	*240	*21
	2016	*1,100	..	..	..	*1,100	*94
	2017	*753	..	..	..	*753	*63
	2018	*771	..	..	..	*771	*63
Senegal	2015	946	..	..	..	946	65
	2016	878	..	..	..	878	59
	2017	736	..	..	..	736	48
	2018	461	..	..	..	461	29
South Africa	2015	47,680	154,898	..	..	202,578	3,658
	2016	28,338	131,146	644	..	158,840	2,826
	2017	25,571	124,124	499	..	149,196	2,617
	2018	39,122	146,278	..	..	185,400	3,208
Togo	2015	..	*1,467	..	..	*1,467	*200
	2016	..	*262	..	..	*262	*35
	2017	..	0	..	..	0	0
	2018	..	1,767	..	..	1,767	224
Tunisia	2015	117,088	118,144	..	..	235,232	21,041
	2016	106,061	136,543	..	..	242,604	21,462
	2017	99,519	153,343	..	..	252,862	22,116
	2018	95,274	160,505	..	..	255,779	22,116
United Rep. of Tanzania	2015	34,003	..	..	..	34,003	660
	2016	32,357	..	..	..	32,357	610
	2017	30,188	..	..	..	30,188	552
	2018	28,943	..	..	..	28,943	514

Table 27

Production, trade and supply of natural gas

Terajoules and megajoules per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
America, North	2015	39,300,047	5,205,039	5,631,113	664,527	38,209,446	67,296
	2016	38,921,511	5,793,609	6,229,775	-497,072	38,982,417	68,070
	2017	39,554,047	6,020,336	7,344,050	-380,990	38,611,323	66,865
	2018	43,343,984	5,910,869	7,732,648	-368,699	41,890,903	71,964
Barbados	2015	647	..	..	..	647	2,269
	2016	542	*111	..	..	653	2,284
	2017	457	*221	..	..	678	2,367
	2018	1,002	..	..	..	1,002	3,496
Belize	2015	81	..	..	*-13	95	262
	2016	81	..	..	*-13	94	256
	2017	63	..	..	*-20	82	219
	2018	51	..	..	*-3	54	141
Canada	2015	6,473,252	770,134	3,054,761	95,673	4,092,952	113,609
	2016	6,907,454	793,845	3,199,060	-82,167	4,584,406	126,004
	2017	7,066,694	976,449	3,284,020	-72,748	4,831,871	131,544
	2018	7,197,198	897,508	3,115,967	22,093	4,956,646	133,694
Cuba	2015	48,562	..	..	..	48,562	4,288
	2016	46,255	..	..	..	46,255	4,081
	2017	41,003	..	..	..	41,003	3,616
	2018	37,854	..	..	..	37,854	3,339
Curaçao	2015	..	5,584	..	..	5,584	34,935
	2016	..	*5,600	..	..	*5,600	*34,771
	2017	..	*2,800	..	..	*2,800	*17,285
	2018	..	*2,100	..	..	*2,100	*12,903
Dominican Republic	2015	..	41,937	..	778	41,159	4,003
	2016	..	38,507	..	-338	38,845	3,736
	2017	..	46,107	..	81	46,027	4,378
	2018	..	45,029	..	-581	45,610	4,292
Jamaica	2015	..	..	..	..	..	..
	2016	..	355	..	..	355	122
	2017	..	4,089	..	..	4,089	1,400
	2018	..	3,789	..	..	3,789	1,291
Mexico	2015	1,621,487	1,403,732	1,140	-6,781	3,030,860	24,872
	2016	1,426,626	1,653,977	1,017	-10,064	3,089,650	25,051
	2017	1,237,433	1,661,018	662	-15,877	2,913,666	23,351
	2018	1,199,619	1,795,228	520	-39,090	3,033,417	24,038
Panama	2015	..	..	..	..	..	..
	2016	..	..	..	..	..	..
	2017	..	..	..	..	..	..
	2018	..	10,180	..	3,352	6,828	1,635
Puerto Rico	2015	..	57,717	..	..	57,717	17,068
	2016	..	65,818	..	..	65,818	20,047
	2017	..	54,411	..	..	54,411	17,199
	2018	..	*55,000	..	..	*55,000	*18,094
Trinidad and Tobago	2015	1,488,155	..	681,865	..	806,290	588,390
	2016	1,305,208	..	579,166	..	726,042	527,048
	2017	1,299,510	..	596,636	..	702,874	507,835
	2018	1,400,178	..	672,949	..	727,229	523,246
United States	2015	29,667,863	2,925,935	1,893,347	574,871	30,125,580	93,885
	2016	29,235,344	3,235,397	2,450,532	-404,490	30,424,699	94,189
	2017	29,908,887	3,275,241	3,462,732	-292,426	30,013,822	92,326
	2018	33,508,081	3,102,035	3,943,212	-354,470	33,021,374	100,953

Table 27

Production, trade and supply of natural gas

Terajoules and megajoules per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
America, South	2015	5,214,755	1,277,966	892,419	244	5,600,057	13,589
	2016	5,375,308	1,012,496	877,139	1,183	5,509,482	13,247
	2017	5,370,382	982,546	834,225	260	5,518,443	13,151
	2018	5,229,780	898,610	770,585	695	5,357,110	12,656
Argentina	2015	1,501,710	403,130	3,081	350	1,901,409	44,141
	2016	1,574,580	385,560	2,170	350	1,957,620	44,994
	2017	1,561,420	401,380	2,662	-350	1,960,488	44,620
	2018	1,644,456	324,728	14,845	318	1,954,021	44,048
Bolivia (Plur. State of)	2015	842,519	..	675,133	..	167,386	15,399
	2016	805,891	..	619,873	..	186,018	16,862
	2017	781,424	..	593,964	..	187,460	16,748
	2018	729,113	..	539,064	..	190,049	16,740
Brazil	2015	856,061	712,865	..	..	1,568,926	7,673
	2016	888,729	454,181	..	..	1,342,910	6,514
	2017	996,545	415,166	..	..	1,411,711	6,792
	2018	940,384	410,360	..	..	1,350,744	6,448
Chile	2015	39,414	145,745	..	-106	185,265	10,310
	2016	47,202	170,076	14,084	833	202,361	11,113
	2017	47,932	163,040	8,236	610	202,126	10,943
	2018	48,866	160,701	6,270	377	202,920	10,834
Colombia	2015	482,860	..	13,254	..	469,606	9,882
	2016	445,589	504	0	..	446,093	9,260
	2017	456,210	505	..	..	456,715	9,338
	2018	476,128	506	..	..	476,634	9,598
Ecuador	2015	31,179	..	..	..	31,179	1,923
	2016	33,658	..	..	..	33,658	2,041
	2017	31,263	..	..	..	31,263	1,862
	2018	28,551	..	..	..	28,551	1,671
Falkland Is. (Malvinas)	2015	..	4	..	..	4	1,550
	2016	..	4	..	..	4	1,426
	2017	..	4	..	..	4	1,378
	2018	..	4	..	..	4	1,254
Peru	2015	531,223	..	200,951	..	330,272	10,839
	2016	588,387	..	241,012	..	347,375	11,232
	2017	523,266	..	229,363	..	293,903	9,347
	2018	514,329	..	210,406	..	303,923	9,501
Suriname	2015	152	..	..	..	152	271
	2016	136	..	..	..	136	241
	2017	136	..	..	..	136	239
	2018	195	..	..	..	195	339
Uruguay	2015	..	1,919	..	..	1,919	563
	2016	..	2,171	..	..	2,171	634
	2017	..	2,451	..	..	2,451	713
	2018	..	2,311	..	..	2,311	670
Venezuela (Bolivar. Rep.)	2015	929,637	14,302	..	..	943,939	31,379
	2016	991,136	0	..	..	991,136	33,202
	2017	972,186	0	..	..	972,186	33,065
	2018	847,757	..	..	..	847,757	29,347
Asia	2015	49,289,211	15,548,411	13,171,467	4,390	51,661,766	11,653
	2016	50,424,971	16,077,945	13,127,668	-103,318	53,478,566	11,946
	2017	51,514,191	17,679,844	13,559,038	107,166	55,527,831	12,288
	2018	52,362,222	19,195,776	14,001,411	41,713	57,514,874	12,611

Table 27

Production, trade and supply of natural gas

Terajoules and megajoules per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Afghanistan	2015	5,705	..	..	..	5,705	166
	2016	6,450	..	..	..	6,450	182
	2017	6,091	..	..	..	6,091	168
	2018	5,978	..	..	..	5,978	161
Armenia	2015	..	91,310	..	1,270	90,039	30,777
	2016	..	86,065	..	-73	86,138	29,337
	2017	..	91,554	..	904	90,650	30,783
	2018	..	94,283	..	-796	95,079	32,211
Azerbaijan	2015	751,362	..	318,152	-12,652	445,862	46,334
	2016	731,110	11,656	314,398	-8,859	437,226	44,908
	2017	710,345	82,413	345,951	22,143	424,664	43,134
	2018	750,229	70,238	387,155	680	432,633	43,483
Bahrain	2015	574,065	..	..	-6	574,071	418,464
	2016	552,332	..	..	-3	552,335	387,388
	2017	568,359	..	..	-636	568,995	380,834
	2018	577,458	..	..	1	577,457	367,938
Bangladesh	2015	985,805	..	..	-5,047	990,852	6,341
	2016	1,075,390	..	..	-13,176	1,088,566	6,891
	2017	1,070,946	..	..	-19,967	1,090,912	6,832
	2018	1,070,345	..	..	-14,689	1,085,034	6,724
Brunei Darussalam	2015	437,932	..	334,342	4,165	99,425	239,628
	2016	422,384	..	315,089	-1,260	108,555	258,593
	2017	462,777	..	327,214	-3,125	138,688	326,724
	2018	452,350	..	307,980	1,567	142,803	332,905
China	2015	5,294,673	2,279,548	120,909	..	7,453,312	5,298
	2016	5,532,939	2,780,352	125,902	..	8,187,390	5,790
	2017	6,046,598	3,526,510	131,677	..	9,441,431	6,644
	2018	6,013,670	4,679,887	126,275	..	10,567,283	7,402
China, Hong Kong SAR	2015	28,403	123,628	..	..	152,031	21,157
	2016	28,814	126,743	..	..	155,557	21,475
	2017	29,049	126,387	..	..	155,436	21,274
	2018	29,550	123,197	..	..	152,747	20,721
China, Macao SAR	2015	..	83	..	1	82	136
	2016	..	370	..	-1	371	605
	2017	..	6,847	..	2	6,845	10,995
	2018	..	3,634	..	..	3,634	5,753
Georgia	2015	437	99,949	3,847	..	96,539	23,990
	2016	254	90,502	0	..	90,756	22,602
	2017	333	95,263	..	..	95,596	23,847
	2018	403	94,744	..	..	95,147	23,769
India	2015	*1,218,477	*792,217	..	..	*2,010,694	*1,535
	2016	1,228,788	717,628	..	..	1,946,416	1,470
	2017	1,257,639	765,392	..	..	2,023,031	1,511
	2018	1,282,737	1,121,464	..	..	2,404,201	1,777
Indonesia	2015	2,644,065	..	763,735	-35,667	1,915,997	7,415
	2016	2,605,595	..	751,961	..	1,853,634	7,087
	2017	2,496,383	..	781,916	..	1,714,467	6,478
	2018	2,541,308	..	830,711	..	1,710,597	6,391
Iran (Islamic Rep. of)	2015	7,271,954	334,293	353,776	..	7,252,470	92,397
	2016	7,864,956	230,942	356,898	..	7,739,000	97,268
	2017	8,489,798	151,954	520,558	..	8,121,194	100,667
	2018	8,865,103	62,642	611,589	..	8,316,156	101,664

Table 27

Production, trade and supply of natural gas

Terajoules and megajoules per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Iraq	2015	263,997	..	..	..	263,997	7,421
	2016	290,397	..	..	..	290,397	7,932
	2017	329,997	60,800	..	..	390,797	10,407
	2018	448,795	171,000	..	..	619,795	16,126
Israel	2015	275,899	4,332	..	..	280,231	35,123
	2016	307,025	11,885	..	..	318,910	39,328
	2017	324,522	17,167	2,410	..	339,279	41,155
	2018	345,321	22,119	..	..	367,440	43,839
Japan	2015	179,247	4,551,428	..	140	4,730,535	36,962
	2016	184,025	4,615,551	..	-1,276	4,800,852	37,576
	2017	196,211	4,568,890	..	-5,701	4,770,802	37,417
	2018	180,639	4,388,925	..	-18,912	4,588,476	36,072
Jordan	2015	4,232	77,168	..	..	81,400	8,784
	2016	3,610	167,080	28,789	..	141,900	14,852
	2017	3,847	202,013	42,584	..	163,276	16,685
	2018	3,624	167,881	11,588	..	159,917	16,047
Kazakhstan	2015	1,551,868	227,408	495,794	6,143	1,277,339	72,692
	2016	1,630,883	267,676	577,495	-15,419	1,336,483	74,953
	2017	1,847,913	244,878	693,785	11,338	1,387,668	76,751
	2018	1,567,135	387,839	1,071,740	17,083	866,151	47,280
Korea, Republic of	2015	7,854	1,811,665	..	-10,889	1,830,408	36,015
	2016	6,441	1,842,548	..	-72,900	1,921,889	37,696
	2017	14,203	2,029,463	..	33,352	2,010,314	39,344
	2018	12,147	2,309,420	..	101,500	2,220,067	43,385
Kuwait	2015	642,542	151,620	..	..	794,162	207,051
	2016	657,058	188,480	..	..	845,538	213,689
	2017	649,866	210,140	..	..	860,006	212,028
	2018	674,036	189,240	..	..	863,276	208,656
Kyrgyzstan	2015	1,154	9,522	..	..	10,676	1,792
	2016	1,043	10,087	..	..	11,130	1,832
	2017	939	10,866	..	..	11,805	1,907
	2018	985	12,016	..	..	13,001	2,062
Malaysia	2015	2,419,659	327,148	1,177,257	..	1,569,550	51,850
	2016	2,393,324	286,035	1,184,751	..	1,494,608	48,709
	2017	2,430,873	292,784	1,292,015	..	1,431,642	46,027
	2018	2,565,169	291,035	1,143,335	..	1,712,869	54,328
Myanmar	2015	713,772	..	493,249	..	220,523	4,186
	2016	744,589	..	580,338	..	164,251	3,096
	2017	710,324	..	*538,261	..	172,063	3,223
	2018	724,321	..	532,642	..	191,679	3,569
Oman	2015	1,315,495	82,386	417,000	..	980,881	229,858
	2016	1,343,097	81,558	443,688	..	980,967	219,004
	2017	1,348,927	81,558	464,955	..	965,530	206,932
	2018	1,523,605	66,240	547,104	..	1,042,741	215,912
Other Asia	2015	12,519	713,973	..	2,245	724,247	30,744
	2016	10,767	743,987	..	-2,254	757,008	32,052
	2017	8,899	827,923	..	4,460	832,362	35,159
	2018	6,618	845,219	..	9,852	841,985	35,487
Pakistan	2015	1,256,276	51,733	..	-1,239	1,309,248	6,565
	2016	1,274,671	153,081	..	*-1,246	1,428,998	7,018
	2017	1,263,942	246,283	..	..	1,510,225	7,264
	2018	1,250,705	289,828	..	..	1,540,533	7,259

Table 27

Production, trade and supply of natural gas

Terajoules and megajoules per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Philippines	2015	135,403	..	..	..	135,403	1,326
	2016	155,132	..	..	..	155,132	1,496
	2017	153,033	..	..	..	153,033	1,455
	2018	170,850	..	..	..	170,850	1,602
Qatar	2015	6,830,586	..	5,129,046	..	1,701,540	663,185
	2016	6,917,940	..	5,242,068	..	1,675,872	631,361
	2017	6,893,100	..	5,122,836	..	1,770,264	649,703
	2018	6,855,840	..	5,067,774	..	1,788,066	642,800
Saudi Arabia	2015	4,675,886	..	..	..	4,675,886	147,422
	2016	4,916,646	..	..	..	4,916,646	151,545
	2017	5,033,709	..	..	..	5,033,709	152,070
	2018	5,228,814	..	..	..	5,228,814	155,145
Singapore	2015	..	395,798	..	-1,732	397,530	71,087
	2016	..	405,304	..	-2,159	407,463	72,071
	2017	..	413,314	..	3,598	409,715	71,779
	2018	..	416,980	..	-1,438	418,418	72,673
Syrian Arab Republic	2015	162,110	..	..	..	162,110	9,007
	2016	141,375	..	..	..	141,375	8,094
	2017	139,490	..	..	..	139,490	8,159
	2018	138,736	..	..	..	138,736	8,187
Tajikistan	2015	156	..	..	..	156	18
	2016	118	..	..	..	118	14
	2017	81	..	..	..	81	9
	2018	24	2,184	..	..	2,208	243
Thailand	2015	1,199,937	556,232	..	..	1,756,169	25,557
	2016	1,176,806	541,690	..	..	1,718,496	24,916
	2017	1,098,964	576,394	..	..	1,675,358	24,207
	2018	1,063,777	588,243	..	..	1,652,020	23,795
Timor-Leste	2015	300,462	..	300,462	..	0	0
	2016	246,223	..	246,223	..	0	0
	2017	225,541	..	225,541	..	0	0
	2018	*216,567	..	*216,567	..	0	0
Turkey	2015	14,584	1,855,031	23,899	13,608	1,832,108	23,330
	2016	14,068	1,775,476	25,923	-16,318	1,779,939	22,297
	2017	13,564	2,116,077	24,158	47,789	2,057,694	25,367
	2018	16,343	1,925,967	25,789	8,384	1,908,137	23,174
Turkmenistan	2015	3,171,309	..	2,178,093	..	993,216	178,466
	2016	3,022,406	..	2,029,190	..	993,216	175,406
	2017	3,050,065	..	2,056,849	..	993,216	172,503
	2018	3,199,347	..	2,206,145	..	993,202	169,752
United Arab Emirates	2015	2,348,323	893,893	515,077	..	2,727,139	294,415
	2016	2,383,547	874,070	515,077	..	2,742,540	292,976
	2017	2,110,436	873,619	545,500	..	2,438,555	257,036
	2018	1,871,750	871,551	353,193	..	2,390,108	248,169
Uzbekistan	2015	2,062,846	118,046	471,062	44,049	1,665,782	53,857
	2016	2,120,712	69,180	389,879	31,626	1,768,387	56,243
	2017	2,139,984	61,356	442,828	13,008	1,745,504	54,616
	2018	2,326,745	0	561,825	-61,518	1,826,438	56,239
Viet Nam	2015	415,964	..	..	..	415,964	4,488
	2016	414,013	..	..	..	414,013	4,421
	2017	363,390	..	..	..	363,390	3,841
	2018	377,189	..	..	..	377,189	3,948

Table 27

Production, trade and supply of natural gas

Terajoules and megajoules per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Yemen	2015	114,254	..	75,768	..	38,486	1,452
	2016	20,045	..	..	..	20,045	738
	2017	24,053	..	..	..	24,053	864
	2018	4,009	..	..	..	4,009	141
Europe	2015	34,898,651	17,947,651	16,705,033	33,089	36,108,180	48,452
	2016	35,551,919	18,351,665	16,754,948	-398,356	37,546,992	50,300
	2017	37,649,392	20,110,103	18,047,950	699,819	39,011,725	52,180
	2018	37,898,694	19,007,184	16,205,277	-497,284	41,197,885	55,032
Albania	2015	1,273	..	..	..	1,273	440
	2016	3,308	..	..	..	3,308	1,146
	2017	3,422	..	..	..	3,422	1,187
	2018	3,076	..	..	..	3,076	1,067
Austria	2015	48,004	454,425	222,344	-39,579	319,664	36,833
	2016	44,897	551,640	267,595	-2,171	331,113	37,853
	2017	48,516	536,865	210,482	13,139	361,760	41,016
	2018	39,964	503,400	201,444	-2,080	344,000	38,689
Belarus	2015	6,797	725,707	..	-4,094	736,598	78,034
	2016	6,488	719,914	..	-5,677	732,079	77,504
	2017	5,793	734,359	..	-8,999	749,151	79,273
	2018	5,948	785,185	..	-3,553	794,686	84,070
Belgium	2015	..	711,487	67,081	-4,384	648,790	57,476
	2016	..	692,529	26,955	3,700	661,874	58,292
	2017	..	691,461	29,354	-10,819	672,926	58,926
	2018	2	750,494	52,715	3,858	693,923	60,435
Bosnia and Herzegovina	2015	..	8,254	..	..	8,254	2,407
	2016	..	8,592	..	..	8,592	2,537
	2017	..	9,292	..	..	9,292	2,772
	2018	..	9,261	..	1	9,260	2,786
Bulgaria	2015	3,931	117,186	91	318	120,708	16,766
	2016	3,566	120,650	107	-868	124,977	17,475
	2017	3,082	126,673	1,246	9	128,500	18,092
	2018	1,328	120,455	482	-217	121,518	17,233
Croatia	2015	68,450	40,371	14,124	-2,153	96,850	22,880
	2016	63,692	48,902	15,057	-3,437	100,974	23,992
	2017	57,197	70,106	7,700	3,617	115,986	27,729
	2018	47,345	61,167	4,361	-2,483	106,634	25,655
Czechia	2015	9,529	286,767	0	-5,282	301,578	28,447
	2016	8,384	312,387	..	-5,628	326,399	30,738
	2017	8,768	341,211	..	14,989	334,990	31,481
	2018	8,355	307,194	..	-1,676	317,225	29,743
Denmark	2015	193,912	27,493	91,499	-3,912	133,818	23,523
	2016	192,046	28,463	88,240	-5,071	137,340	24,047
	2017	208,080	21,606	93,373	2,809	133,504	23,290
	2018	180,146	16,136	64,077	-7	132,212	22,985
Estonia	2015	..	18,164	..	..	18,164	13,809
	2016	..	19,923	..	..	19,923	15,133
	2017	..	18,885	..	..	18,885	14,313
	2018	..	19,241	..	..	19,241	14,544
Finland	2015	302	104,042	11	..	104,333	19,035
	2016	327	95,787	15	..	96,099	17,480
	2017	400	89,099	..	-1,000	90,499	16,420
	2018	407	101,361	..	257	101,511	18,381

Table 27

Production, trade and supply of natural gas

Terajoules and megajoules per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
France	2015	1,186	1,832,029	226,317	-23,468	1,630,366	24,467
	2016	1,611	1,918,226	155,205	-17,340	1,781,972	26,650
	2017	2,120	2,007,600	252,252	-34,622	1,792,090	26,723
	2018	2,930	2,036,747	247,462	81,161	1,711,054	25,451
Germany	2015	294,709	3,996,950	1,267,332	-6,653	3,030,980	37,059
	2016	304,749	3,796,620	899,143	-69,540	3,271,766	39,806
	2017	280,465	4,453,882	1,251,405	-21,906	3,504,848	42,402
	2018	219,329	3,281,120	..	78,810	3,421,639	41,163
Greece	2015	219	124,377	..	66	124,530	11,682
	2016	446	161,072	..	-824	162,342	15,293
	2017	422	196,550	..	1,417	195,555	18,502
	2018	589	192,807	..	1,863	191,533	18,203
Hungary	2015	63,688	264,077	21,315	-41,978	348,428	35,634
	2016	66,468	336,120	41,533	-12,394	373,449	38,291
	2017	65,834	519,322	136,859	50,724	397,573	40,861
	2018	68,457	494,127	194,125	-16,643	385,102	39,671
Ireland	2015	5,246	168,442	..	-1,179	174,867	37,586
	2016	115,739	79,082	..	-2,734	197,555	42,071
	2017	132,498	65,565	..	-2,557	200,620	42,207
	2018	127,802	80,961	..	..	208,763	43,324
Isle of Man	2015	..	4,220	..	..	4,220	50,702
	2016	..	4,768	..	..	4,768	57,242
	2017	..	4,748	..	..	4,748	56,787
	2018	..	4,642	..	..	4,642	55,214
Italy	2015	257,975	2,334,234	8,420	11,163	2,572,626	42,444
	2016	220,409	2,487,320	8,077	-2,210	2,701,862	44,514
	2017	211,346	2,653,666	10,385	-8,968	2,863,595	47,170
	2018	208,644	2,585,940	14,878	10,067	2,769,639	45,658
Latvia	2015	..	50,364	..	-733	51,097	25,578
	2016	..	42,930	..	-8,860	51,790	26,233
	2017	..	47,111	..	919	46,192	23,675
	2018	..	53,750	..	-634	54,384	28,201
Liechtenstein	2015	..	1,018	..	..	1,018	27,220
	2016	..	1,012	..	..	1,012	26,857
	2017	..	1,061	..	..	1,061	27,986
	2018	..	986	..	..	986	..
Lithuania	2015	..	99,602	3,706	-283	96,179	32,805
	2016	..	87,896	1,707	518	85,671	29,649
	2017	..	96,757	7,980	-608	89,385	31,414
	2018	..	88,715	7,001	-892	82,606	29,489
Luxembourg	2015	222	35,771	..	..	35,993	63,509
	2016	218	32,988	..	..	33,206	57,324
	2017	248	32,245	..	..	32,493	54,895
	2018	231	31,803	..	..	32,034	53,015
Malta	2015	..	..	..	..	..	..
	2016	..	..	..	..	..	..
	2017	..	11,829	..	584	11,245	25,677
	2018	..	14,919	..	1,292	13,627	31,023
Netherlands	2015	1,839,292	1,360,066	1,848,263	15,058	1,336,037	78,876
	2016	1,776,159	1,538,076	1,996,314	-83,730	1,401,651	82,541
	2017	1,546,180	1,807,950	1,870,990	34,862	1,448,278	85,086
	2018	1,297,149	2,030,350	1,816,500	75,771	1,435,228	84,130

Table 27

Production, trade and supply of natural gas

Terajoules and megajoules per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
North Macedonia	2015	..	4,689	..	2	4,688	2,255
	2016	..	7,371	..	-1	7,372	3,543
	2017	..	9,487	..	7	9,480	4,553
	2018	..	8,749	..	5	8,744	4,198
Norway	2015	4,784,439	0	4,500,753	-3,611	287,297	55,251
	2016	4,760,715	0	4,501,580	-902	260,037	49,522
	2017	5,057,651	0	4,837,764	4,279	215,608	40,709
	2018	4,950,498	..	4,710,681	-2,005	241,822	45,302
Poland	2015	171,329	464,842	2,112	-6,790	640,849	16,849
	2016	165,272	566,852	33,294	18,084	680,746	17,919
	2017	163,373	606,014	47,232	3,664	718,491	18,931
	2018	161,378	608,367	26,278	-6,627	750,094	19,780
Portugal	2015	..	189,121	..	673	188,448	18,175
	2016	..	198,228	..	-2,873	201,101	19,476
	2017	..	252,977	..	1,053	251,924	24,486
	2018	..	236,115	..	2,469	233,646	22,781
Republic of Moldova	2015	3	34,146	..	-48	34,197	8,401
	2016	4	35,159	..	58	35,105	8,634
	2017	4	35,006	..	-52	35,062	8,637
	2018	4	38,250	..	97	38,157	9,417
Romania	2015	408,689	7,512	38	1,330	414,833	20,820
	2016	362,111	54,722	44	-2,995	419,784	21,205
	2017	396,451	44,318	965	-7,291	447,095	22,748
	2018	394,323	56,210	1,143	-8,504	457,894	23,474
Russian Federation	2015	24,391,734	336,386	7,674,559	108,497	16,945,064	116,875
	2016	25,046,466	341,547	8,146,589	-32,037	17,273,461	118,902
	2017	27,025,965	335,736	8,725,080	571,303	18,065,317	124,135
	2018	27,755,267	358,750	8,433,194	-706,326	20,387,149	139,893
Serbia	2015	21,207	64,461	..	4,242	81,426	11,487
	2016	19,381	66,499	..	-2,106	87,986	12,434
	2017	18,117	80,849	..	474	98,491	13,993
	2018	16,653	81,431	..	-1,091	99,175	14,156
Slovakia	2015	3,620	171,542	0	-5,310	180,472	33,202
	2016	3,562	168,251	..	-9,398	181,211	33,299
	2017	5,433	203,191	..	16,185	192,439	35,323
	2018	3,609	169,857	..	-16,199	189,665	34,782
Slovenia	2015	120	30,784	..	..	30,904	14,921
	2016	199	32,600	..	..	32,799	15,813
	2017	334	34,170	143	..	34,361	16,548
	2018	634	33,515	436	..	33,713	16,225
Spain	2015	2,516	1,311,020	205,013	-32,990	1,141,513	24,458
	2016	2,231	1,311,571	161,381	-12,427	1,164,848	24,978
	2017	1,439	1,401,449	116,622	17,502	1,268,764	27,199
	2018	3,850	1,409,177	131,438	21,391	1,260,198	26,989
Sweden	2015	..	33,662	..	..	33,662	3,447
	2016	..	38,064	..	..	38,064	3,870
	2017	..	43,870	205	..	43,665	4,408
	2018	..	48,205	661	..	47,544	4,768
Switzerland	2015	944	132,689	..	..	133,633	16,034
	2016	1,109	139,395	..	..	140,504	16,692
	2017	1,228	139,993	..	..	141,221	16,627
	2018	1,300	132,791	..	..	134,091	15,658

Table 27

Production, trade and supply of natural gas

Terajoules and megajoules per capita

Country or area	Year	Production	Imports	Exports	Changes in stocks	Supply	
						Total	Per capita
Ukraine	2015	689,341	618,333	..	95,251	1,212,423	26,990
	2016	705,926	409,787	..	-75,351	1,191,064	26,638
	2017	719,737	523,927	..	101,424	1,142,240	25,675
	2018	766,963	393,516	..	-32,894	1,193,373	26,971
United Kingdom	2015	1,629,974	1,783,417	552,055	-21,064	2,882,400	43,765
	2016	1,676,436	1,896,723	412,112	-62,142	3,223,189	48,617
	2017	1,685,289	1,861,272	447,913	-42,320	3,140,968	47,072
	2018	1,632,514	1,861,490	298,401	27,505	3,168,098	47,185
Oceania	2015	3,007,281	200,750	1,462,302	-2,117	1,747,846	43,852
	2016	3,532,827	226,441	2,121,210	966	1,637,092	40,488
	2017	4,427,231	206,519	2,965,094	-3,122	1,671,778	40,770
	2018	5,007,218	186,515	3,488,029	-6,830	1,712,534	41,197
Australia	2015	2,706,341	200,750	1,365,964	..	1,541,127	64,395
	2016	3,216,042	226,441	2,018,675	..	1,423,808	58,683
	2017	4,106,757	206,519	2,857,996	..	1,455,280	59,195
	2018	4,707,645	186,515	3,379,860	..	1,514,300	60,820
New Zealand	2015	188,106	..	..	-2,117	190,223	41,223
	2016	196,791	..	..	966	195,825	42,029
	2017	194,413	..	..	-3,122	197,535	42,011
	2018	172,251	..	..	-6,830	179,081	37,756
Papua New Guinea	2015	112,834	..	96,338	..	16,496	2,035
	2016	119,994	..	102,535	..	17,459	2,111
	2017	126,061	..	107,098	..	18,963	2,247
	2018	*127,322	..	*108,169	..	*19,153	*2,225

Table 28

**International trade of natural gas
(Principal importers/exporters)**

Terajoules

2017

Importers	Exporters							
	World	Algeria	Australia	Bolivia (Plur. State of)	Canada	Germany	Indonesia	Malaysia
Argentina	401,380	3,040	..	255,900	..	..	..	..
Austria	536,865	..	..	..	..	..	..	..
Belarus	734,359	..	..	..	..	..	..	..
Belgium	691,461	..	..	..	..	47,459	..	..
Brazil	415,166	..	..	337,688	..	..	..	..
Canada	976,449	..	..	..	..	..	..	..
China	3,526,510	3,114	767,357	..	2	..	161,564	219,520
Czechia	341,211	..	..	..	..	..	..	..
France	2,007,600	157,756	..	..	..	18,281	..	..
Germany	4,453,882	..	..	..	..	..	..	..
Hungary	519,322	..	..	..	..	..	..	..
India	765,392	10,506	84,617	..	..	..	7,038	11,070
Italy	2,653,666	743,354	..	..	..	..	..	..
Japan	4,568,890	3,990	1,461,077	..	..	..	162,895	775,490
Kazakhstan	244,878	..	..	..	..	..	..	..
Korea, Republic of	2,029,463	3,302	376,251	..	..	..	181,518	204,662
Malaysia	292,784	..	31,504	..	..	..	28,105	..
Mexico	1,661,018	..	..	..	..	..	9,325	..
Netherlands	1,807,950	3,913	..	..	..	274,242	..	..
Poland	606,014	..	..	..	..	136,325	..	..
Portugal	252,977	85,418	..	..	..	..	..	..
Russian Federation	335,736	..	..	..	..	..	..	..
Singapore	413,314	3,040	69,030	..	..	..	216,182	49,217
Slovakia	203,191	..	..	..	..	..	..	..
Spain	1,401,449	676,834	..	..	..	..	..	..
Thailand	576,394	3,420	19,616	..	..	..	10,260	19,000
Turkey	2,116,077	176,854	..	..	..	..	..	..
Ukraine	523,927	..	..	..	..	..	..	..
United Arab Emirates	873,619	9,880	7,064	..	..	..	3,040	..
United Kingdom	1,861,272	8,847	..	..	..	..	..	..
United States	3,275,241	..	..	..	3,187,384	..	..	..

International trade of natural gas (Principal importers/exporters)

Terajoules

2017

Exporters							
Netherlands	Nigeria	Norway	Qatar	Russian Federation	Trinidad and Tobago	Turkmenistan	United States
..	19,473	0	76,428	..	24,916	..	17,791
..	..	..	..	..	..	..	..
..	..	..	..	734,359	..	..	..
288,122	..	205,030	44,455	..	..	..	..
..	23,656	..	11,828	..	19,622	..	19,291
..	..	2,542	..	..	9,708	..	960,715
..	18,104	3,558	415,313	22,594	6,620	1,220,442	113,036
..	..	2,779	..	338,432	..	..	..
204,224	123,895	845,462	82,549	378,983	..	..	..
..	..	433,211	..	2,420,367	..	..	..
..	..	..	..	493,356	..	..	..
..	176,241	5,380	438,084	..	9,565	..	22,866
46,191	6,085	99,032	256,707	1,261,410	3,296	..	3,207
..	74,068	..	537,156	384,615	12,372	..	51,217
..	..	..	..	171,453	..	12,726	..
..	38,289	..	637,894	108,582	9,294	..	107,868
..	..	..	..	..	..	..	..
..	52,811	..	..	..	15,644	..	1,568,542
..	6,450	879,784	..	312,773	7,754	..	..
36	..	3,395	60,732	397,307	..	..	3,626
..	85,782	..	23,647	..	..	..	21,468
..	..	..	..	..	..	..	..
..	..	..	37,440	..	..	..	..
..	..	..	..	171,897	..	..	..
4,081	178,379	138,952	140,318	..	18,573	..	30,754
..	7,280	..	116,918	..	..	..	3,403
3,306	79,662	29,051	63,469	1,098,709	16,060	..	29,401
..	..	..	..	..	..	..	..
..	17,100	3,691	708,724	..	3,040	..	14,656
74,757	3,474	1,416,302	228,130	3,860	11,671	..	3,593
..	..	6,828	..	..	79,609	..	..

Table 28

International trade of natural gas
(Principal importers/exporters)

Terajoules

2018

Importers	Exporters							
	World	Algeria	Australia	Bolivia (Plur. State of)	Canada	Germany	Indonesia	Malaysia
Argentina	324,728	3,040	..	182,063	..	..	..	..
Austria	503,400	..	..	..	..	..	..	..
Belarus	785,185	..	..	..	..	..	..	..
Belgium	750,494	..	..	..	..	..	..	..
Brazil	410,360	..	..	320,278	..	..	..	..
Canada	897,508	..	..	..	..	..	..	..
China	4,679,887	3,698	1,129,631	..	64	..	252,935	312,816
Czechia	307,194	..	..	..	..	..	..	..
France	2,036,747	143,956	..	..	..	..	..	..
Germany	3,281,120	..	..	..	..	..	..	..
Hungary	494,127	..	..	..	..	..	..	..
India	1,121,464	12,387	90,446	..	..	..	..	14,440
Italy	2,585,940	684,669	..	..	..	..	..	..
Japan	4,388,925	..	1,504,524	..	..	..	159,309	542,673
Kazakhstan	387,839	..	..	..	..	..	..	..
Korea, Republic of	2,309,420	..	407,564	..	..	..	186,632	187,283
Malaysia	291,035	..	20,641	..	..	..	23,679	..
Mexico	1,795,228	..	..	..	..	..	..	..
Netherlands	2,030,350	11,179	..	..	..	..	..	..
Poland	608,367	..	..	..	..	..	..	..
Portugal	236,115	62,981	..	..	..	..	..	..
Russian Federation	358,750	..	..	..	..	..	..	..
Singapore	416,980	..	121,615	..	..	..	198,595	39,792
Slovakia	169,857	..	..	..	..	..	..	..
Spain	1,409,177	723,416	..	..	..	..	..	..
Thailand	588,243	..	8,228	..	..	..	9,500	26,790
Turkey	1,925,967	173,090	..	..	..	..	..	..
Ukraine	393,516	..	..	..	..	..	..	..
United Arab Emirates	871,551	13,110	3,839	..	..	..	..	..
United Kingdom	1,861,490	8,769	..	..	..	..	..	..
United States	3,102,035	..	..	..	3,022,199	..	..	..

International trade of natural gas (Principal importers/exporters)

Terajoules

2018

Exporters							
Netherlands	Nigeria	Norway	Qatar	Russian Federation	Trinidad and Tobago	Turkmenistan	United States
..	18,694	..	60,338	1,900	20,244	..	30,125
..	..	..	..	..	..	..	..
..	..	..	..	785,185	..	..	..
347,469	..	269,326	91,323	3,324	..	..	..
..	9,857	..	3,667	17,100	18,445	..	38,963
3,327	..	3,195	..	..	16,716	..	874,270
..	58,477	14,309	502,570	58,901	19,665	1,308,405	98,895
..	..	1,522	..	305,672	..	..	..
198,580	136,143	789,088	57,202	409,786	..	..	6,672
..	..	95,922	..	1,680,697	..	..	..
..	..	..	..	469,421	..	..	..
..	149,826	3,678	602,779	21,020	19,130	..	62,999
51,031	3,391	120,364	248,978	1,251,487	..	..	24,546
..	57,370	3,441	528,069	347,953	..	..	154,118
..	..	..	..	183,601	..	..	..
6,865	27,900	6,536	743,049	90,948	9,436	..	253,018
..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	1,662,514
..	18,425	1,064,870	..	469,780	22,151	..	..
69	..	13,493	90,364	373,635	..	..	3,325
..	95,948	3,345	27,471	..	..	..	19,912
..	..	..	..	..	..	..	..
..	..	..	19,680	..	2,508	..	4,021
..	..	..	..	169,857	..	..	..
54	165,483	128,917	135,672	35,138	87,270	..	12,090
..	46,191	..	97,541	2,911	18,853	..	..
..	82,230	3,381	114,169	905,629	15,937	..	17,007
..	..	..	..	..	..	..	..
..	3,040	..	702,136	..	..	..	3,977
108,345	3,068	1,355,792	114,118	60,064	24,130	..	47,544
..	3,350	..	..	..	72,987	..	..

Production of manufactured and recovered gases - by type

Terajoules

Table Notes

Production refers to gasworks gas, coke oven gas, blast furnace gas and other recovered gases.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description /classification, and xvi to xvii for the descriptions of relevant flows.

Figure 71: Production of manufactured and recovered gases by region, 1990-2018

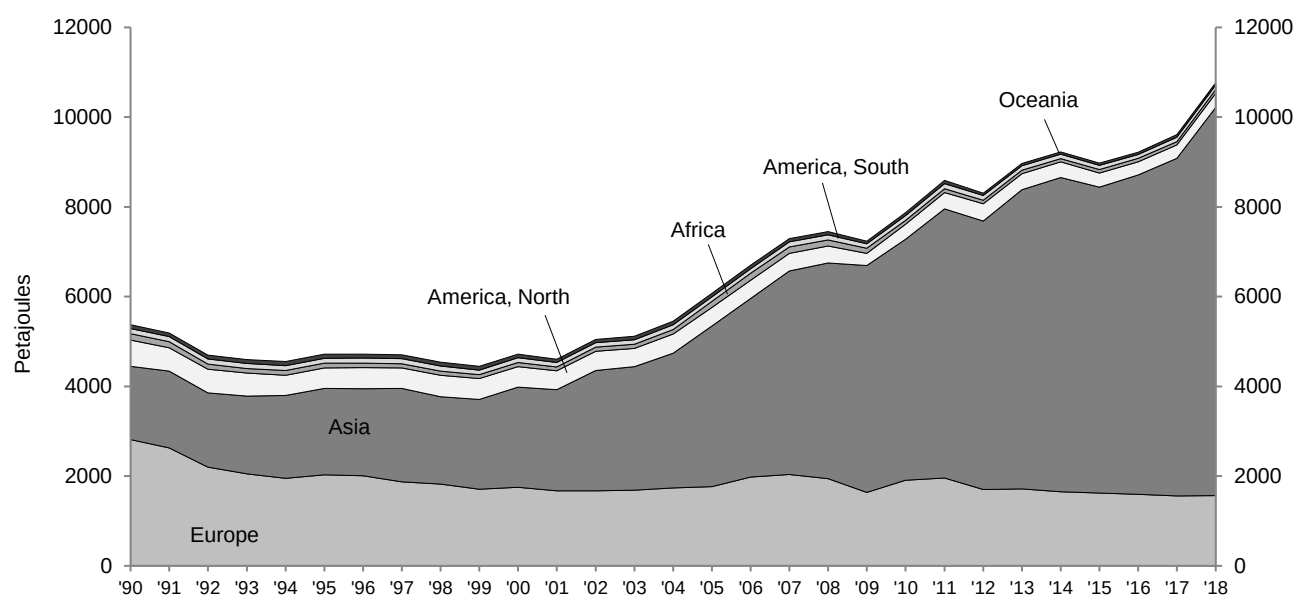


Figure 72: World production of manufactured and recovered gases by type, 2018

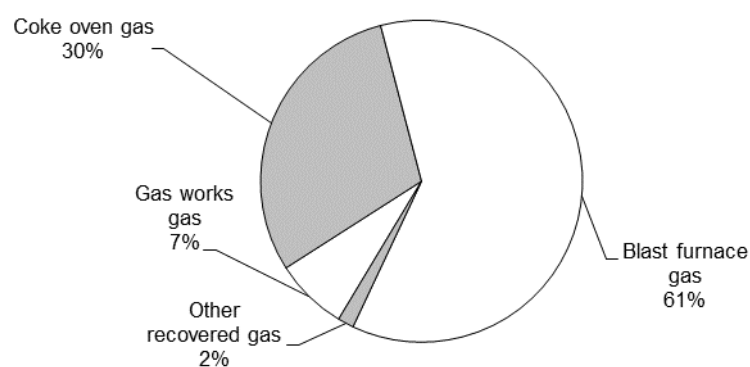


Table 29

Production of manufactured and recovered gases - by type

Terajoules

Country or area	Year	Total	Gas works gas	Coke oven gas	Blast furnace gas	Other recovered gas
World	2015	8,975,539	601,188	3,094,095	5,082,130	198,126
	2016	9,220,844	641,657	3,128,611	5,260,089	190,487
	2017	9,608,262	731,159	3,115,064	5,580,644	181,395
	2018	10,766,264	789,592	3,225,207	6,579,137	172,327
Africa	2015	75,002	23,664	23,030	28,308	..
	2016	75,468	23,460	24,595	27,413	..
	2017	76,445	21,688	24,045	30,712	..
	2018	80,771	22,812	25,446	32,513	..
Algeria	2015	2,562	..	0	2,562	..
	2016	0	..	..	0	..
	2017	3,614	..	..	3,614	..
	2018	5,844	..	..	5,844	..
Egypt	2015	4,526	74	..	4,452	..
	2016	*4,534	82	..	*4,452	..
	2017	4,268	131	..	4,137	..
	2018	4,764	88	..	4,676	..
South Africa	2015	66,446	23,590	21,562	21,294	..
	2016	69,596	23,378	23,257	22,961	..
	2017	67,775	21,557	23,257	22,961	..
	2018	69,208	22,724	24,491	21,993	..
Zimbabwe	2015	1,468	..	1,468	..	..
	2016	1,338	..	1,338	..	..
	2017	788	..	788	..	..
	2018	955	..	955	..	..
America, North	2015	313,541	53,682	104,419	155,440	..
	2016	295,773	56,271	93,099	146,403	..
	2017	298,124	61,479	92,773	143,872	..
	2018	314,394	63,886	99,602	150,906	..
Canada	2015	43,765	..	23,222	20,543	..
	2016	43,624	..	22,037	21,587	..
	2017	43,992	..	22,057	21,935	..
	2018	46,598	..	24,979	21,619	..
Cuba	2015	3,647	3,636	..	11	..
	2016	3,707	3,696	..	11	..
	2017	3,473	3,467	..	6	..
	2018	3,325	3,319	..	6	..
Mexico	2015	34,848	..	14,770	20,078	..
	2016	31,637	..	11,252	20,385	..
	2017	30,293	..	10,653	19,640	..
	2018	29,043	..	9,709	19,334	..
United States	2015	231,281	50,046	66,427	114,808	..
	2016	216,805	52,575	59,810	104,420	..
	2017	220,366	58,012	60,063	102,291	..
	2018	235,428	60,567	64,914	109,947	..
America, South	2015	95,939	364	81,875	13,700	..
	2016	89,678	213	77,860	11,605	..
	2017	98,947	79	86,859	12,009	..
	2018	102,781	73	90,183	12,525	..
Argentina	2015	14,316	..	5,142	9,174	..
	2016	11,403	..	3,875	7,528	..
	2017	12,411	..	4,312	8,099	..
	2018	13,374	..	4,788	8,586	..

Production of manufactured and recovered gases - by type

Terajoules

Country or area	Year	Total	Gas works gas	Coke oven gas	Blast furnace gas	Other recovered gas
Brazil	2015	71,578	..	71,578	..	..
	2016	68,715	..	68,715	..	..
	2017	77,783	..	77,783	..	..
	2018	80,329	..	80,329	..	..
Chile	2015	7,293	364	3,608	3,321	..
	2016	6,980	213	3,820	2,947	..
	2017	6,425	79	3,456	2,890	..
	2018	6,727	73	3,745	2,909	..
Colombia	2015	2,752	..	1,547	1,205	..
	2016	2,580	..	1,450	1,130	..
	2017	2,328	..	1,308	1,020	..
	2018	2,351	..	1,321	1,030	..
Asia	2015	6,817,331	498,846	2,180,153	4,032,873	105,459
	2016	7,115,392	539,155	2,222,605	4,247,175	106,456
	2017	7,523,971	625,763	2,227,086	4,569,325	101,797
	2018	8,654,099	680,904	2,349,821	5,522,756	100,618
China	2015	4,837,464	494,572	1,477,609	2,865,283	..
	2016	5,082,630	534,862	1,499,092	3,048,676	..
	2017	5,471,011	621,403	1,484,174	3,365,434	..
	2018	6,551,575	676,437	1,586,618	4,288,520	..
India	2015	*488,288	*974	*154,406	*332,908	..
	2016	*535,132	*993	*165,364	*368,775	..
	2017	567,891	*1,060	*181,607	385,224	..
	2018	*620,684	*1,167	*193,217	*426,300	..
Indonesia	2015	*3,300	*3,300	..	..	..
	2016	*3,300	*3,300	..	..	..
	2017	*3,300	*3,300	..	..	..
	2018	*3,300	*3,300	..	..	..
Iran (Islamic Rep. of)	2015	26,953	..	6,841	20,112	..
	2016	26,853	..	8,508	18,345	..
	2017	24,809	..	9,782	15,027	..
	2018	26,319	..	10,414	15,905	..
Japan	2015	800,697	..	294,030	440,073	66,594
	2016	804,534	..	299,255	438,870	66,409
	2017	787,616	..	295,706	429,842	62,068
	2018	779,347	..	295,367	423,160	60,820
Kazakhstan	2015	36,080	..	15,917	20,163	..
	2016	40,578	..	16,909	23,669	..
	2017	43,921	..	17,490	26,431	..
	2018	39,530	..	16,668	22,862	..
Korea, Dem.Ppl's.Rep.	2015	1,628	..	..	1,628	..
	2016	1,838	..	..	1,838	..
	2017	1,645	..	..	1,645	..
	2018	1,222	..	..	1,222	..
Korea, Republic of	2015	398,071	..	147,921	222,139	28,011
	2016	394,580	..	147,900	217,967	28,713
	2017	400,459	..	153,969	217,678	28,812
	2018	401,861	..	157,103	215,927	28,831
Other Asia	2015	132,220	..	50,731	70,635	10,854
	2016	137,287	..	53,638	72,315	11,334
	2017	132,319	..	51,249	70,153	10,917
	2018	137,945	..	54,176	72,802	10,967

Table 29

Production of manufactured and recovered gases - by type

Terajoules

Country or area	Year	Total	Gas works gas	Coke oven gas	Blast furnace gas	Other recovered gas
Philippines	2015	2,820	..	..	2,820	..
	2016	3,790	..	..	3,790	..
	2017	3,313	..	..	3,313	..
	2018	3,466	..	..	3,466	..
Syrian Arab Republic	2015	3	..	..	3	..
	2016	3	..	..	3	..
	2017	3	..	..	3	..
	2018	3	..	..	3	..
Thailand	2015	462	..	..	462	..
	2016	496	..	..	496	..
	2017	622	..	..	622	..
	2018	589	..	..	589	..
Turkey	2015	89,345	..	32,698	56,647	..
	2016	84,371	..	31,939	52,432	..
	2017	87,062	..	33,109	53,953	..
	2018	88,258	..	36,258	52,000	..
Europe	2015	1,624,032	24,577	679,027	828,025	92,403
	2016	1,594,111	22,519	685,189	802,636	83,767
	2017	1,558,292	22,105	658,410	798,478	79,299
	2018	1,564,791	21,879	635,139	836,360	71,413
Austria	2015	43,963	..	10,337	29,601	4,025
	2016	42,585	..	9,954	28,812	3,819
	2017	45,236	..	10,154	30,765	4,317
	2018	38,953	..	10,321	25,239	3,393
Belgium	2015	35,518	..	10,742	21,477	3,299
	2016	37,373	..	10,320	23,522	3,531
	2017	37,904	..	10,062	24,077	3,765
	2018	37,292	..	10,020	23,607	3,665
Bosnia and Herzegovina	2015	11,627	..	7,215	4,412	..
	2016	11,247	..	6,867	4,380	..
	2017	10,724	..	6,527	4,197	..
	2018	12,246	..	7,632	4,614	..
Croatia	2015	11	11	..	..	..
	2016	..	..	..	..	..
	2017	..	..	..	..	..
	2018	..	..	..	..	..
Czechia	2015	61,096	17,024	18,946	19,473	5,653
	2016	61,160	16,933	17,859	20,643	5,725
	2017	59,003	15,177	20,320	18,064	5,442
	2018	60,383	13,932	20,673	19,796	5,982
Estonia	2015	7,207	7,207	..	..	..
	2016	5,250	5,250	..	..	..
	2017	6,615	6,615	..	..	..
	2018	18,520	7,643	10,877	..	..
Finland	2015	23,920	..	8,848	11,436	3,636
	2016	24,076	..	8,731	11,529	3,816
	2017	22,678	..	8,197	11,071	3,410
	2018	23,649	..	8,277	11,526	3,846
France	2015	77,794	..	27,515	44,026	6,253
	2016	66,458	..	23,920	35,565	6,973
	2017	70,404	..	24,829	38,517	7,058
	2018	86,218	..	0	86,218	0

Table 29

Production of manufactured and recovered gases - by type

Terajoules

Country or area	Year	Total	Gas works gas	Coke oven gas	Blast furnace gas	Other recovered gas
Germany	2015	261,627	..	73,796	165,776	22,055
	2016	259,995	..	77,811	159,763	22,421
	2017	254,151	..	68,044	162,818	23,289
	2018	250,530	..	64,646	160,885	24,999
Hungary	2015	16,789	..	9,182	7,607	..
	2016	13,259	..	8,198	5,061	..
	2017	16,996	..	9,126	7,870	..
	2018	17,669	..	9,109	8,560	..
Italy	2015	36,361	..	13,516	15,934	6,911
	2016	43,550	..	14,439	23,709	5,402
	2017	35,981	..	15,132	16,990	3,859
	2018	34,808	..	15,150	18,007	1,651
Netherlands	2015	55,924	..	19,222	36,702	..
	2016	54,001	..	18,370	35,631	..
	2017	55,858	..	18,839	37,019	..
	2018	54,706	..	18,161	36,545	..
Norway	2015	3,765	..	..	3,765	..
	2016	3,222	..	..	3,222	..
	2017	4,012	..	..	4,012	..
	2018	4,197	..	..	4,197	..
Poland	2015	112,547	5	79,263	26,470	6,809
	2016	108,838	0	78,303	25,158	5,377
	2017	107,601	..	76,852	27,164	3,585
	2018	107,822	..	78,254	26,377	3,191
Romania	2015	10,195	..	..	10,195	..
	2016	9,990	..	..	9,990	..
	2017	9,408	..	..	9,408	..
	2018	10,137	..	..	10,137	..
Russian Federation	2015	485,003	..	258,532	226,471	..
	2016	487,419	..	270,873	216,546	..
	2017	490,758	..	262,407	228,351	..
	2018	481,163	..	261,597	219,566	..
Serbia	2015	7,253	..	..	7,253	..
	2016	9,549	..	..	9,549	..
	2017	10,609	..	..	10,609	..
	2018	12,281	..	..	12,281	..
Slovakia	2015	37,866	..	13,709	20,114	4,043
	2016	39,159	..	13,679	21,068	4,412
	2017	39,567	..	12,688	22,124	4,755
	2018	40,606	..	13,427	22,696	4,483
Spain	2015	36,804	10	13,005	23,789	..
	2016	34,728	14	12,463	22,251	..
	2017	30,325	..	10,927	19,398	..
	2018	30,055	..	10,510	19,545	..
Sweden	2015	22,770	320	9,110	11,798	1,542
	2016	24,202	322	9,138	12,791	1,951
	2017	24,169	313	8,890	12,974	1,992
	2018	22,036	304	7,692	12,149	1,891
Ukraine	2015	198,737	..	79,704	90,856	28,177
	2016	207,944	..	90,483	97,121	20,340
	2017	177,103	..	81,374	77,902	17,827
	2018	175,545	..	75,559	81,674	18,312

Table 29

Production of manufactured and recovered gases - by type

Terajoules

Country or area	Year	Total	Gas works gas	Coke oven gas	Blast furnace gas	Other recovered gas
United Kingdom	2015	77,255	..	26,385	50,870	..
	2016	50,106	..	13,781	36,325	..
	2017	49,190	..	14,042	35,148	..
	2018	45,975	..	13,234	32,741	..
Oceania	2015	49,694	55	25,591	23,784	264
	2016	50,423	39	25,263	24,857	264
	2017	52,484	45	25,891	26,249	299
	2018	49,428	38	25,016	24,078	296
Australia	2015	37,685	55	20,867	16,763	..
	2016	39,302	39	21,127	18,136	..
	2017	40,718	45	21,506	19,167	..
	2018	38,161	38	20,687	17,436	..
New Zealand	2015	12,009	..	4,724	7,021	264
	2016	11,121	..	4,136	6,721	264
	2017	11,766	..	4,385	7,082	299
	2018	11,267	..	4,329	6,642	296

Net installed capacity of electric plants - by type

Megawatts

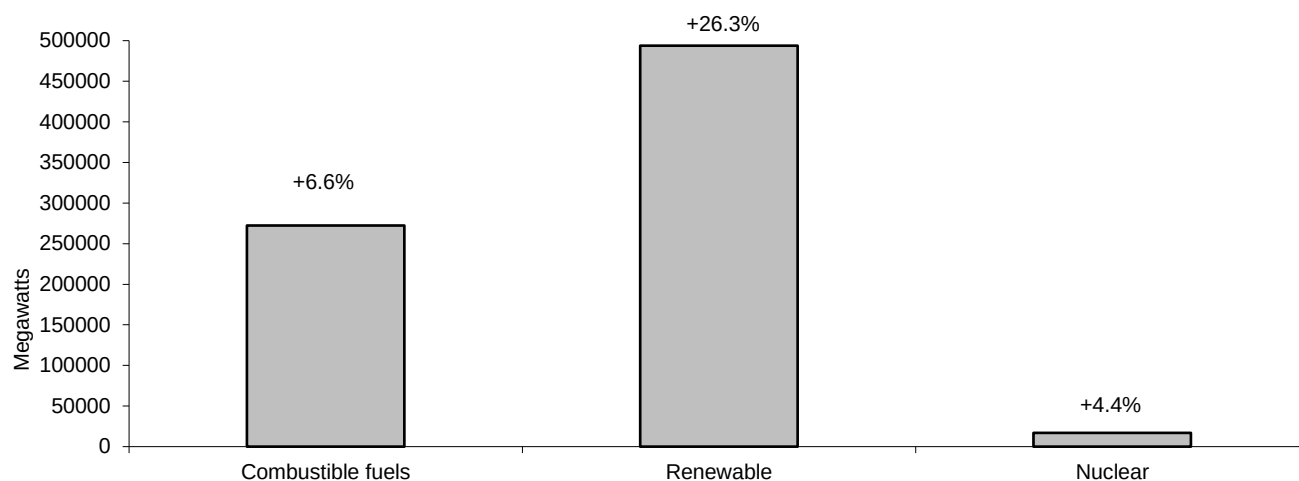
Table Notes

Electricity capacity broken down by source, and main activity producers against autoproducers. For total producers, **Other** refers to geothermal, tide, wave, marine and other non-specified net installed capacity. For autoproducers, **Other** refers to nuclear (if any), wind, solar, geothermal, tide, wave, marine and other non-specified net installed capacity. For main activity producers, **Other** refers to wind, solar, geothermal, tide, wave, marine and other non-specified net installed capacity.

For Austria data are given in gross maximum capacity.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description /classification, and xvi to xvii for the descriptions of relevant flows.

Figure 73: Change in net installed capacity of electricity generating plants* by source, 2015-2018



* Renewable includes capacity from hydro, wind, solar and other sources

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
World	2015	6,389,178	4,119,421	1,213,656	389,293	417,459	228,086	21,263
	2016	6,721,067	4,267,553	1,249,920	399,569	473,843	300,803	29,380
	2017	6,929,608	4,303,111	1,275,909	398,882	519,701	398,596	33,410
	2018	7,172,339	4,391,851	1,291,276	406,276	566,720	484,783	31,431
Africa	2015	177,333	140,390	27,899	1,860	4,343	2,183	657
	2016	191,861	151,242	30,152	1,860	4,654	3,270	682
	2017	207,145	163,179	32,825	1,940	4,784	3,728	689
	2018	221,768	175,435	33,590	1,940	5,467	4,672	664
Algeria	2015	17,239	16,961	228	..	10	40	..
	2016	19,006	18,549	228	..	10	219	..
	2017	19,474	18,892	228	..	10	344	..
	2018	20,963	20,480	129	..	10	344	..
Angola	2015	*2,546	*1,091	*1,442	..	..	13	..
	2016	*2,886	*1,284	*1,589	..	..	13	..
	2017	*4,422	*2,067	*2,342	..	..	13	..
	2018	5,010	*2,298	2,699	..	..	13	..
Benin	2015	*383	*312	*66	..	..	*5	..
	2016	*383	*312	*66	..	..	*5	..
	2017	*383	*312	*66	..	..	5	..
	2018	*383	*312	*66	..	..	5	..
Botswana	2015	621	620	..	..	..	1	..
	2016	621	620	..	..	..	1	..
	2017	753	752	..	..	..	1	..
	2018	796	795	..	..	..	1	..
Burkina Faso	2015	325	293	32	..	..	..	..
	2016	325	293	32	..	..	..	..
	2017	329	293	32	..	..	*4	..
	2018	349	293	32	..	..	*24	..
Burundi	2015	65	*11	51	..	..	3	..
	2016	64	*9	51	..	..	4	..
	2017	70	*17	48	..	..	5	..
	2018	70	*17	48	..	..	5	..
Cabo Verde	2015	162	129	..	..	26	8	..
	2016	*169	*136	..	..	26	8	..
	2017	*200	*166	..	..	27	8	..
	2018	*209	*169	..	..	*31	*9	..
Cameroon	2015	*1,909	*1,167	*732	..	..	*10	..
	2016	*1,944	*1,200	*732	..	..	*12	..
	2017	2,054	*1,265	777	..	..	*12	..
	2018	1,669	*918	732	..	..	*19	..
Central African Rep.	2015	*44	*19	*25	..	..	0	..
	2016	*44	*19	*25	..	..	0	..
	2017	*44	*19	*25	..	..	0	..
	2018	*44	*19	*25	..	..	0	..
Chad	2015	*86	*86	..	..	..	..	..
	2016	*86	*86	..	..	..	..	..
	2017	*86	*86	..	..	..	..	..
	2018	*86	*86	..	..	..	..	..
Comoros	2015	*26	*26	..	..	..	..	..
	2016	*26	*26	..	..	..	..	..
	2017	*34	*34	..	..	..	..	..
	2018	*34	*34	..	..	..	..	..
Congo	2015	600	391	209	..	..	0	..
	2016	*600	*391	*209	..	..	0	..
	2017	*606	*391	214	..	..	1	..
	2018	*606	*391	214	..	..	1	..

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
638,987	505,065	34,613	99,309	5,750,191	3,614,356	1,179,043	389,293	567,499
610,670	467,526	31,715	111,428	6,110,397	3,800,027	1,218,205	399,569	692,597
586,696	429,181	32,426	125,088	6,342,912	3,873,930	1,243,483	398,882	826,618
625,046	455,055	29,045	140,946	6,547,292	3,936,796	1,262,231	406,276	941,989
21,693	17,119	605	3,969	155,639	123,271	27,294	1,860	3,215
25,318	19,790	699	4,829	166,543	131,452	29,453	1,860	3,778
23,720	17,929	767	5,024	183,424	145,250	32,057	1,940	4,177
26,595	20,099	789	5,707	195,173	155,336	32,801	1,940	5,096
4,314	4,314	..	..	12,925	12,647	228	..	50
4,314	4,314	..	..	14,692	14,235	228	..	229
4,314	4,314	..	..	15,160	14,578	228	..	354
6,079	6,079	..	..	14,884	14,401	129	..	354
*184	*184	..	..	*2,362	*907	*1,442	..	13
*217	*217	..	..	*2,669	*1,067	*1,589	..	13
*250	*250	..	..	*4,172	*1,817	*2,342	..	13
*250	*250	..	..	4,760	*2,048	2,699	..	13
*45	*45	..	..	*338	*267	*66	..	*5
*45	*45	..	..	*338	*267	*66	..	*5
*45	*45	..	..	*338	*267	*66	..	5
*45	*45	..	..	*338	*267	*66	..	5
20	20	..	..	601	600	..	..	1
20	20	..	..	601	600	..	..	1
20	20	..	..	733	732	..	..	1
..	..	..	..	796	795	..	..	1
..	..	..	..	325	293	32	..	..
..	..	..	..	325	293	32	..	..
..	..	..	..	329	293	32	..	*4
..	..	..	..	349	293	32	..	*24
*2	*2	..	..	63	*9	51	..	3
*2	*2	..	..	62	*7	51	..	4
*3	*3	..	..	67	*14	48	..	5
*3	*3	..	..	67	*14	48	..	5
0	0	..	..	162	129	..	..	33
*1	*1	..	..	*168	*135	..	..	33
*1	*1	..	..	*200	*165	..	..	35
*1	*1	..	..	*209	*168	..	..	*40
*650	*650	..	..	*1,259	*517	*732	..	*10
*650	*650	..	..	*1,294	*550	*732	..	*12
*650	*650	..	..	1,404	615	777	..	*12
*650	*650	..	..	1,019	268	732	..	*19
..	..	..	..	*44	*19	*25	..	0
..	..	..	..	*44	*19	*25	..	0
..	..	..	..	*44	*19	*25	..	0
..	..	..	..	*44	*19	*25	..	0
..	..	..	..	*86	*86	..	..	..
..	..	..	..	*86	*86	..	..	..
..	..	..	..	*86	*86	..	..	..
..	..	..	..	*86	*86	..	..	..
..	..	..	..	*26	*26	..	..	..
..	..	..	..	*26	*26	..	..	..
..	..	..	..	*34	*34	..	..	..
..	..	..	..	*34	*34	..	..	..
350	350	..	..	250	41	209	..	0
*350	*350	..	..	*250	*41	*209	..	0
*350	*350	..	..	256	*41	214	..	1
*350	*350	..	..	256	*41	214	..	1

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Côte d'Ivoire	2015	1,909	1,305	604	..	..	..	..
	2016	1,909	1,305	604	..	..	..	..
	2017	2,195	1,316	879	..	..	..	..
	2018	2,184	1,305	879	..	..	..	..
Dem. Rep. of the Congo	2015	*2,549	*120	*2,429	..	..	..	..
	2016	*2,677	*135	*2,542	..	..	..	..
	2017	3,120	122	2,998	..	..	..	..
	2018	3,179	155	3,005	..	..	19	..
Djibouti	2015	130	130	..	..	..	..	..
	2016	130	130	..	..	..	..	..
	2017	130	130	..	..	..	..	..
	2018	*130	*130	..	..	..	..	..
Egypt	2015	35,907	32,420	2,800	..	547	140	..
	2016	39,544	35,857	2,800	..	747	140	..
	2017	45,695	42,008	2,800	..	747	140	..
	2018	55,413	51,424	2,832	..	967	190	..
Equatorial Guinea	2015	349	222	127	..	..	..	..
	2016	349	222	127	..	..	..	..
	2017	554	222	327	..	..	5	..
	2018	*554	*222	*327	..	..	*5	..
Eritrea	2015	*161	*159	..	..	1	*1	..
	2016	*161	*159	..	..	1	*1	..
	2017	*216	*205	..	..	1	*10	..
	2018	*226	*205	..	..	1	*20	..
Eswatini	2015	*188	*115	*73	..	..	..	..
	2016	*188	*115	73	..	..	..	..
	2017	*188	*115	*73	..	..	0	..
	2018	192	119	*73	..	..	0	..
Ethiopia	2015	2,424	143	1,940	..	324	10	7
	2016	4,252	99	3,808	..	324	14	7
	2017	4,261	104	3,814	..	324	12	7
	2018	4,260	104	3,814	..	324	11	7
Gabon	2015	511	340	170	..	..	*1	..
	2016	523	352	170	..	..	*1	..
	2017	533	359	173	..	..	*1	..
	2018	751	418	332	..	..	*1	..
Gambia	2015	*120	*116	..	..	1	2	..
	2016	*121	*117	..	..	1	2	..
	2017	*121	*118	..	..	1	2	..
	2018	*126	*123	..	..	1	*2	..
Ghana	2015	3,866	2,263	1,580	..	..	23	..
	2016	4,005	2,402	1,580	..	..	23	..
	2017	4,609	3,006	1,580	..	..	23	..
	2018	5,099	3,476	1,580	..	..	43	0
Guinea	2015	596	228	367	..	..	..	..
	2016	593	226	367	..	..	..	..
	2017	640	*273	367	..	..	..	..
	2018	610	*243	367	..	..	..	..
Guinea-Bissau	2015	*23	*23	..	..	..	..	..
	2016	*31	*27	..	..	..	*5	..
	2017	*31	*26	..	..	..	*5	..
	2018	*32	*26	..	..	..	*5	..
Kenya	2015	2,263	819	800	..	26	..	619
	2016	2,254	786	798	..	26	..	644
	2017	2,270	766	826	..	26	..	652
	2018	2,647	864	821	..	336	..	627

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
*23	*23	..	..	1,886	1,282	604	..	..
*23	*23	..	..	1,886	1,282	604	..	..
*23	*23	..	..	2,172	1,293	879	..	..
*23	*23	..	..	2,161	1,282	879	..	..
*449	*20	*429	..	*2,100	*100	*2,000	..	..
*567	*25	*542	..	*2,110	*110	*2,000	..	..
581	93	488	..	2,539	29	2,510	..	..
601	123	478	..	2,578	32	2,527	..	19
..	..	..	..	130	130	..	..	..
..	..	..	..	130	130	..	..	..
..	..	..	..	130	130	..	..	..
..	..	..	..	*130	*130	..	..	..
*687	*687	..	..	35,220	31,733	2,800	..	687
*687	*687	..	..	38,857	35,170	2,800	..	887
*687	*687	..	..	45,008	41,321	2,800	..	887
*887	*887	..	..	54,526	50,537	2,832	..	1,157
..	..	..	..	349	222	127	..	..
..	..	..	..	349	222	127	..	..
..	..	..	..	554	222	327	..	5
..	..	..	..	*554	*222	*327	..	*5
*10	*10	..	..	*151	*149	..	..	2
*10	*10	..	..	*151	*149	..	..	2
*10	*10	..	..	*206	*195	..	..	*11
*10	*10	..	..	*216	*195	..	..	*21
*110	*106	*4	..	*79	10	*69	..	..
*110	*106	*4	..	79	10	69	..	..
*110	*106	*4	0	*79	*10	*69	..	..
113	109	*4	0	*79	*10	*69	..	..
..	..	..	..	2,424	143	1,940	..	341
..	..	..	..	4,252	99	3,808	..	345
..	..	..	..	4,261	104	3,814	..	343
..	..	..	..	4,260	104	3,814	..	342
*71	*70	..	*1	440	270	170	..	..
*71	*70	..	*1	452	282	170	..	..
*73	*70	*2	*1	460	289	171	..	..
88	85	*2	*1	663	333	330	..	..
*35	*35	..	..	*85	*81	..	..	3
*35	*35	..	..	*86	*82	..	..	3
*36	*36	..	..	*86	*82	..	..	3
*36	*36	..	..	*90	*87	..	..	*3
*210	*210	..	..	3,656	2,053	1,580	..	23
*210	*210	..	..	3,795	2,192	1,580	..	23
*210	*210	..	..	4,399	2,796	1,580	..	23
*210	*210	..	..	4,889	3,266	1,580	..	43
*100	*100	..	..	496	128	367	..	..
150	150	..	..	444	77	367	..	..
*180	*180	..	..	460	*93	367	..	..
*148	*148	..	..	462	*95	367	..	..
*4	*4	..	..	*19	*19	..	..	..
*5	*5	..	..	*26	*21	..	..	*5
*6	*6	..	..	*26	*21	..	..	*5
*5	*5	..	..	*26	*21	..	..	*5
..	..	..	..	2,263	819	800	..	645
..	..	..	..	2,254	786	798	..	670
..	..	..	..	2,270	766	826	..	678
19	19	..	..	2,628	845	821	..	963

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Lesotho	2015	80	..	80	..	..	0	..
	2016	81	*1	80	..	..	0	..
	2017	75	*1	74	..	..	0	..
	2018	75	1	74	..	..	0	..
Liberia	2015	*102	*93	*9	..	..	..	..
	2016	*107	*98	*9	..	..	0	..
	2017	*111	*100	*9	..	..	*2	..
	2018	*195	*100	*92	..	..	*3	..
Libya	2015	9,460	9,455	..	..	..	5	..
	2016	10,249	10,244	..	..	..	5	..
	2017	10,243	10,238	..	..	..	5	..
	2018	10,516	10,511	..	..	..	5	..
Madagascar	2015	*543	*379	164	..	0	0	..
	2016	526	366	159	..	0	*1	..
	2017	663	496	166	..	0	*1	..
	2018	*663	*496	*166	..	0	*1	..
Malawi	2015	567	*211	356	..	..	..	..
	2016	567	*211	356	..	..	..	..
	2017	567	*211	356	..	..	..	..
	2018	661	*211	450	..	..	..	..
Mali	2015	*895	*404	*490	..	..	*1	..
	2016	1,011	*490	520	..	..	*1	..
	2017	1,112	*560	550	..	..	*2	..
	2018	*1,112	*560	*550	..	..	*2	..
Mauritania	2015	444	392	..	..	34	18	..
	2016	*461	*392	..	..	34	35	..
	2017	*506	*421	..	..	35	50	..
	2018	*570	*449	..	..	34	87	..
Mauritius	2015	792	711	61	..	1	19	..
	2016	847	749	61	..	11	27	..
	2017	836	736	60	..	11	29	..
	2018	874	737	60	..	11	67	..
Morocco	2015	11,455	8,727	1,770	..	797	161	..
	2016	11,561	8,732	1,770	..	898	161	..
	2017	12,120	9,128	1,770	..	1,017	205	..
	2018	12,350	9,151	1,770	..	1,168	261	..
Mozambique	2015	2,508	410	2,097	..	..	1	..
	2016	2,491	412	2,078	..	..	1	..
	2017	*2,739	*413	*2,311	..	..	15	..
	2018	*2,744	*465	*2,239	..	..	40	..
Namibia	2015	513	155	337	..	0	21	..
	2016	529	143	350	..	0	36	..
	2017	565	143	347	..	5	70	..
	2018	582	143	347	..	5	88	..
Niger	2015	277	270	..	..	..	7	..
	2016	288	280	..	..	..	8	..
	2017	290	281	..	..	..	9	..
	2018	311	291	..	..	..	20	..
Nigeria	2015	*10,439	*8,458	*1,970	..	..	*11	..
	2016	*12,385	*10,403	*1,970	..	..	*12	..
	2017	*12,534	*10,142	*2,380	..	..	*12	..
	2018	*12,305	*10,142	*2,151	..	..	*12	..
Rwanda	2015	172	82	80	..	..	9	..
	2016	193	99	84	..	..	9	..
	2017	217	104	101	..	..	12	..
	2018	217	102	103	..	..	12	..

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	80	..	80	..	0
..	..	..	..	81	*1	80	..	0
..	..	..	..	75	*1	74	..	0
..	..	..	..	75	1	74	..	0
*70	*70	..	..	*32	*23	*9	..	..
*70	*70	..	..	37	28	*9	..	0
*70	*70	..	..	*41	*30	*9	..	*2
*70	*70	..	..	*125	*30	*92	..	*3
..	..	..	..	9,460	9,455	..	..	5
..	..	..	..	10,249	10,244	..	..	5
..	..	..	..	10,243	10,238	..	..	5
..	..	..	..	10,516	10,511	..	..	5
*32	*32	..	..	*511	*347	164	..	0
*40	*40	..	..	486	326	159	..	*1
*60	*60	..	..	603	436	166	..	*1
*60	*60	..	..	*603	*436	*166	..	*1
*215	*210	*5	..	352	*1	351	..	..
*215	*210	*5	..	352	*1	351	..	..
*215	*210	*5	..	352	*1	351	..	..
*215	*210	*5	..	446	*1	445	..	..
114	114	..	..	*781	*290	*490	..	*1
*200	*200	..	..	811	*290	520	..	*1
*260	*260	..	..	852	*300	550	..	*2
*260	*260	..	..	*852	*300	*550	..	*2
*80	*80	..	..	364	312	..	..	52
*80	*80	..	..	*381	*312	..	..	69
*80	*80	..	..	*426	*341	..	..	85
*85	*85	..	..	*485	*364	..	..	121
303	284	..	19	489	427	61	..	1
348	312	..	36	499	437	61	..	1
323	285	..	38	513	452	60	..	1
361	285	..	76	513	452	60	..	1
*3,300	*3,300	..	..	8,155	5,427	1,770	..	958
*3,300	*3,300	..	..	8,261	5,432	1,770	..	1,059
*3,300	*3,300	..	..	8,820	5,828	1,770	..	1,222
*3,300	*3,300	..	..	9,050	5,851	1,770	..	1,429
*48	*25	*22	1	2,460	385	2,075	..	..
*31	*27	*3	1	2,460	385	2,075	..	..
*128	*28	*85	15	*2,611	*385	*2,226	..	..
*155	*30	*85	40	*2,589	*435	*2,154	..	..
..	..	..	..	513	155	337	..	21
..	..	..	..	529	143	350	..	36
..	..	..	..	565	143	347	..	75
..	..	..	..	582	143	347	..	93
60	53	..	7	216	216	..	..	..
61	53	..	8	226	226	..	..	..
62	53	..	9	228	228	..	..	..
73	53	..	20	238	238	..	..	..
*3,051	*3,000	*40	*11	*7,388	*5,458	*1,930	..	..
*3,314	*3,262	*40	*12	*9,071	*7,141	*1,930	..	..
*3,232	*3,180	*40	*12	*9,302	*6,962	*2,340	..	..
*3,232	*3,180	*40	*12	*9,073	*6,962	*2,111	..	..
*1	*1	..	..	171	81	80	..	9
*1	*1	..	..	192	98	84	..	9
*1	*1	..	..	216	103	101	..	12
*1	*1	..	..	216	101	103	..	12

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Sao Tome and Principe	2015	*26	*24	2	..	..	0	..
	2016	*27	*25	2	..	..	0	..
	2017	*29	*26	2	..	..	0	..
	2018	*29	*26	2	..	..	0	..
Senegal	2015	886	834	..	..	..	*21	*31
	2016	*893	*840	..	..	..	22	*31
	2017	1,016	884	..	..	..	102	30
	2018	1,174	1,001	..	..	..	143	*30
Seychelles	2015	116	110	..	..	6	1	..
	2016	*137	*129	..	..	6	2	..
	2017	155	146	..	..	7	3	..
	2018	*155	*146	..	..	6	4	..
Sierra Leone	2015	135	78	56	..	..	0	..
	2016	139	78	60	..	..	1	..
	2017	*142	*78	*60	..	..	4	..
	2018	*137	*76	*57	..	..	4	..
Somalia	2015	80	80	..	..	..	..	..
	2016	80	80	..	..	..	..	..
	2017	80	80	..	..	..	..	..
	2018	80	80	..	..	..	..	..
South Africa	2015	*47,109	*40,581	*740	*1,860	*2,328	*1,600	..
	2016	*49,930	*42,581	*740	1,860	*2,328	*2,421	..
	2017	*53,028	*45,497	761	1,940	*2,330	*2,500	..
	2018	*53,487	*45,497	761	1,940	*2,330	2,959	..
South Sudan	2015	*84	*80	3	..	..	*1	..
	2016	*84	*80	*3	..	..	*1	..
	2017	*131	*120	*3	..	..	*8	..
	2018	*131	*120	*3	..	..	*8	..
St. Helena and Depend.	2015	10	8	..	..	*2	1	..
	2016	11	8	..	..	2	1	..
	2017	11	8	..	..	*3	1	..
	2018	12	8	..	..	3	2	..
Sudan	2015	3,321	1,717	1,593	..	..	11	..
	2016	3,540	1,935	1,593	..	..	12	..
	2017	3,770	2,004	1,753	..	..	13	..
	2018	3,939	2,013	1,907	..	..	19	..
Togo	2015	227	160	67	..	..	..	..
	2016	213	158	55	..	..	..	..
	2017	225	158	67	..	..	..	..
	2018	227	157	67	..	..	3	..
Tunisia	2015	5,447	5,120	62	..	240	25	..
	2016	5,513	5,174	62	..	240	37	..
	2017	5,723	5,372	62	..	240	49	..
	2018	5,800	5,352	62	..	240	146	..
Uganda	2015	861	166	695	..	..	..	..
	2016	872	166	695	..	..	11	..
	2017	913	178	712	..	..	22	..
	2018	984	198	744	..	..	42	..
United Rep. of Tanzania	2015	1,380	800	567	..	..	13	..
	2016	1,394	808	567	..	..	18	..
	2017	1,412	829	562	..	..	22	..
	2018	1,602	1,015	562	..	..	25	..
Zambia	2015	2,411	142	2,269	..	..	0	..
	2016	2,827	439	2,388	..	..	0	..
	2017	2,897	498	2,398	..	..	1	..
	2018	2,898	499	2,398	..	..	1	..

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	*26	*24	2	..	0
..	..	..	..	*27	*25	2	..	0
..	..	..	..	*29	*26	2	..	0
..	..	..	..	*29	*26	2	..	0
*378	*326	..	*52	508	508	..	..	..
*383	*330	..	*53	*510	*510	..	..	..
*462	*330	..	132	554	554	..	..	..
503	330	..	173	671	671	..	..	..
*28	*28	..	..	89	82	..	..	7
*28	*28	..	..	*108	*100	..	..	8
*29	*29	..	..	126	116	..	..	10
*29	*29	..	..	*126	*116	..	..	10
*1	*1	..	..	133	77	56	..	0
*1	*1	..	..	138	77	60	..	1
*1	*1	..	..	*141	*77	*60	..	4
*1	*1	..	..	*136	*75	*57	..	4
..	..	..	..	80	80	..	..	..
..	..	..	..	80	80	..	..	..
..	..	..	..	80	80	..	..	..
..	..	..	..	80	80	..	..	..
*6,068	*2,200	*40	*3,828	*41,041	*38,381	*700	*1,860	*100
*9,080	*4,391	40	*4,649	*40,850	*38,190	*700	1,860	*100
*7,191	*2,400	61	*4,730	*45,837	*43,097	700	1,940	100
*7,650	*2,400	*61	5,189	*45,837	*43,097	700	1,940	*100
*41	*40	..	*1	*43	*40	3	..	0
*41	*40	..	*1	*43	*40	*3	..	0
*41	*40	..	*1	*90	*80	*3	..	*7
*41	*40	..	*1	*90	*80	*3	..	*7
..	..	..	..	10	8	..	..	*3
..	..	..	..	11	8	..	..	3
..	..	..	..	11	8	..	..	*3
..	..	..	..	12	8	..	..	4
201	190	..	11	3,120	1,527	1,593	..	..
202	190	..	12	3,338	1,745	1,593	..	..
203	190	..	13	3,567	1,814	1,753	..	..
218	199	..	19	3,721	1,814	1,907	..	..
*8	*8	..	..	219	152	67	..	..
*8	*8	..	..	205	150	55	..	..
*8	*8	..	..	217	150	67	..	..
*11	*8	..	3	216	149	67	..	..
*223	*198	..	25	5,224	4,922	62	..	240
*235	*198	..	37	5,278	4,976	62	..	240
*247	*198	..	49	5,476	5,174	62	..	240
*344	*198	..	146	5,456	5,154	62	..	240
130	65	65	..	732	102	630	..	..
130	65	65	..	742	102	630	..	11
160	76	82	2	752	102	630	..	21
212	96	114	*2	772	102	630	..	41
*33	*20	..	13	1,347	780	567	..	..
*38	*20	..	18	1,356	788	567	..	..
54	32	..	22	1,358	796	562	..	..
211	186	..	25	1,390	829	562	..	..
..	..	..	..	2,411	142	2,269	..	0
..	..	..	..	2,827	439	2,388	..	0
..	..	..	..	2,897	498	2,398	..	1
..	..	..	..	2,898	499	2,398	..	1

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Zimbabwe	2015	1,992	1,235	757	..	..	..	..
	2016	2,015	1,265	750	..	..	..	..
	2017	2,015	1,265	750	..	..	..	..
	2018	2,315	1,265	1,050	..	..	..	..
America, North	2015	1,324,669	887,706	201,082	114,215	88,653	27,584	5,430
	2016	1,347,192	885,425	203,317	115,206	99,148	38,689	5,407
	2017	1,363,410	884,325	203,992	115,270	105,610	47,962	6,250
	2018	1,387,028	888,864	204,923	115,074	113,894	58,710	5,563
Anguilla	2015	34	33	..	..	..	1	..
	2016	34	33	..	..	..	1	..
	2017	24	24	..	..	..	*1	..
	2018	*25	*24	..	..	..	*1	..
Antigua and Barbuda	2015	*117	*111	..	..	..	6	..
	2016	*117	*111	..	..	..	6	..
	2017	*119	*113	..	..	..	6	..
	2018	91	82	..	..	..	9	..
Aruba	2015	288	258	..	..	30	..	..
	2016	288	258	..	..	30	..	..
	2017	288	258	..	..	30	..	..
	2018	288	258	..	..	30	..	..
Bahamas	2015	576	576	..	..	..	..	..
	2016	576	576	..	..	..	..	..
	2017	576	576	..	..	..	..	..
	2018	576	576	..	..	..	..	..
Barbados	2015	258	249	..	..	..	9	..
	2016	268	249	..	..	..	19	..
	2017	281	262	..	..	..	19	..
	2018	259	234	..	..	..	25	..
Belize	2015	154	99	55	..	..	0	..
	2016	146	94	51	..	..	0	..
	2017	165	113	51	..	..	0	..
	2018	165	113	51	..	..	0	..
Bermuda	2015	*171	*171	..	..	..	..	..
	2016	*171	*171	..	..	..	..	..
	2017	*171	*171	..	..	..	..	..
	2018	*176	*172	..	..	..	4	..
Bonaire, St Eustatius, Saba	2015	*27	*16	..	..	*11	..	..
	2016	33	20	..	..	11	2	..
	2017	*33	*20	..	..	*11	*2	..
	2018	*34	*20	..	..	*12	*2	..
British Virgin Islands	2015	45	44	..	..	1	1	..
	2016	45	44	..	..	1	1	..
	2017	*32	*31	..	..	0	*1	..
	2018	*33	*32	..	..	0	0	..
Canada	2015	144,846	36,871	79,405	14,033	11,214	3,253	*70
	2016	146,601	37,557	80,304	14,033	11,973	2,665	*69
	2017	147,449	37,307	80,831	14,033	12,250	2,932	*96
	2018	148,762	37,322	81,396	14,033	12,816	3,095	*100
Cayman Islands	2015	132	132	..	..	..	..	..
	2016	161	161	..	..	..	..	..
	2017	161	161	..	..	..	..	..
	2018	161	161	..	..	..	..	..
Costa Rica	2015	3,626	661	2,152	..	*565	1	247
	2016	3,824	597	2,328	..	*679	13	207
	2017	3,557	617	2,328	..	378	27	207
	2018	3,676	629	2,388	..	408	44	207

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
*45	*45	..	..	1,947	1,190	757	..	..
*45	*45	..	..	1,970	1,220	750	..	..
*45	*45	..	..	1,970	1,220	750	..	..
*45	*45	..	..	2,270	1,220	1,050	..	..
70,415	48,914	6,075	15,426	1,254,254	838,792	195,007	114,215	106,241
77,478	51,737	6,014	19,726	1,269,714	833,687	197,302	115,206	123,518
80,692	51,453	5,814	23,425	1,282,718	832,872	198,178	115,270	136,398
86,034	52,029	5,786	28,219	1,300,994	836,835	199,138	115,074	149,947
..	..	..	..	34	33	..	..	1
..	..	..	..	34	33	..	..	1
..	..	..	..	24	24	..	..	*1
..	..	..	..	*25	*24	..	..	*1
*1	*1	..	..	*116	*110	..	..	6
*1	*1	..	..	*116	*110	..	..	6
*1	*1	..	..	*118	*112	..	..	6
*1	*1	..	..	90	81	..	..	9
..	..	..	..	288	258	..	..	30
..	..	..	..	288	258	..	..	30
..	..	..	..	288	258	..	..	30
..	..	..	..	288	258	..	..	30
*39	*39	..	..	537	537	..	..	..
*39	*39	..	..	537	537	..	..	..
*39	*39	..	..	537	537	..	..	..
*39	*39	..	..	537	537	..	..	..
*10	*10	..	..	248	239	..	..	9
*10	*10	..	..	258	239	..	..	19
*10	*10	..	..	271	252	..	..	19
*10	*10	..	..	249	224	..	..	25
34	34	..	..	121	66	55	..	0
*34	*34	..	..	112	60	51	..	0
*45	*45	..	..	120	68	51	..	0
*45	*45	..	..	120	68	51	..	0
*4	*4	..	..	*167	*167	..	..	..
*4	*4	..	..	*167	*167	..	..	..
*4	*4	..	..	*167	*167	..	..	..
9	5	..	4	*167	*167	..	..	..
..	..	..	..	*27	*16	..	..	*11
..	..	..	..	33	20	..	..	13
..	..	..	..	*33	*20	..	..	*13
..	..	..	..	*34	*20	..	..	*14
..	..	..	..	45	44	..	..	1
..	..	..	..	45	44	..	..	1
..	..	..	..	*32	*31	..	..	*1
..	..	..	..	*33	*32	..	..	*1
11,871	5,738	5,270	863	132,975	31,133	74,135	14,033	13,674
11,947	5,684	5,123	1,140	134,654	31,873	75,181	14,033	13,567
12,071	5,559	5,132	1,380	135,378	31,748	75,699	14,033	13,898
12,412	5,674	5,175	1,563	136,350	31,648	76,221	14,033	14,448
..	..	..	..	132	132	..	..	..
..	..	..	..	161	161	..	..	..
..	..	..	..	161	161	..	..	..
..	..	..	..	161	161	..	..	..
*565	*25	*210	*330	3,061	636	1,942	..	483
*607	*25	*210	*372	3,217	572	2,118	..	527
67	45	0	22	3,490	572	2,328	..	590
97	58	0	39	3,579	572	2,387	..	620

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Cuba	2015	6,314	6,217	63	..	*14	*19	..
	2016	6,454	6,341	66	..	*16	*30	..
	2017	6,476	6,325	66	..	*22	*63	..
	2018	6,661	6,458	64	..	*36	*103	..
Curaçao	2015	301	262	..	..	30	*9	..
	2016	*307	*262	..	..	30	*15	..
	2017	*257	*200	..	..	47	11	..
	2018	*258	*200	..	..	47	11	..
Dominica	2015	45	35	10	..	..	..	..
	2016	45	35	10	..	..	..	..
	2017	45	35	10	..	..	..	..
	2018	45	35	10	..	..	..	..
Dominican Republic	2015	5,230	4,503	617	..	85	23	2
	2016	5,205	4,382	617	..	135	69	2
	2017	5,134	4,276	617	..	135	103	2
	2018	5,278	4,271	617	..	183	203	3
El Salvador	2015	*1,671	*959	497	..	..	11	204
	2016	*1,727	*1,016	495	..	..	12	204
	2017	1,923	*1,034	575	..	..	110	204
	2018	2,009	*1,063	575	..	..	167	204
Greenland	2015	187	*96	91	..	..	..	..
	2016	187	*96	91	..	..	..	..
	2017	187	96	91	..	..	..	..
	2018	*187	*96	*91	..	..	..	..
Grenada	2015	49	48	..	..	..	0	..
	2016	49	48	..	..	..	0	..
	2017	50	50	..	..	..	0	..
	2018	53	52	..	..	..	0	..
Guatemala	2015	3,139	1,905	1,039	..	76	85	34
	2016	3,442	1,942	1,306	..	76	85	34
	2017	3,356	1,845	1,311	..	75	92	34
	2018	3,499	1,770	1,492	..	107	92	39
Haiti	2015	*333	*271	61	..	..	1	..
	2016	*336	*274	61	..	..	1	..
	2017	*344	*282	61	..	..	1	..
	2018	*352	*290	61	..	..	1	..
Honduras	2015	2,250	1,078	632	..	152	388	..
	2016	2,439	1,185	670	..	175	409	..
	2017	2,562	1,185	666	..	225	451	35
	2018	2,637	1,171	696	..	225	511	35
Jamaica	2015	965	871	29	..	65	..	..
	2016	1,031	871	29	..	101	30	..
	2017	1,041	871	29	..	101	40	..
	2018	1,045	874	29	..	102	40	..
Mexico	2015	67,504	49,421	12,223	1,510	3,271	173	906
	2016	72,574	53,047	12,580	1,608	4,051	362	926
	2017	74,431	54,388	12,628	1,608	4,180	642	985
	2018	76,921	54,388	12,628	1,608	4,853	2,434	1,010
Montserrat	2015	5	5	..	..	..	..	..
	2016	5	5	..	..	..	..	..
	2017	5	5	..	..	..	..	..
	2018	5	5	..	..	..	..	..
Nicaragua	2015	1,346	866	138	..	186	1	155
	2016	1,396	912	142	..	186	1	155
	2017	1,482	985	142	..	186	14	155
	2018	1,482	985	142	..	186	14	155

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
529	529	..	..	5,785	5,688	63	..	*34
494	494	..	..	5,960	5,847	66	..	*47
531	531	..	..	5,945	5,794	66	..	*85
553	553	..	..	6,108	5,905	64	..	*139
146	146	..	..	155	116	..	..	39
*146	*146	..	..	*161	*116	..	..	45
*84	*84	..	..	*173	*116	..	..	57
*84	*84	..	..	*174	*116	..	..	58
18	15	3	..	27	20	7	..	..
18	15	3	..	27	20	7	..	..
18	15	3	..	27	20	7	..	..
*18	*15	3	..	27	20	7	..	..
1,520	1,494	1	24	3,711	3,009	616	..	86
1,395	1,353	1	40	3,809	3,028	616	..	165
1,296	1,219	1	75	3,838	3,057	616	..	165
1,308	1,189	2	117	3,970	3,082	616	..	272
*218	*183	25	11	*1,453	*776	473	..	204
*268	*234	23	12	*1,459	*782	473	..	204
*316	*244	22	50	*1,607	*790	553	..	264
*405	*276	22	107	*1,604	*787	553	..	264
*16	*16	..	..	171	*80	91	..	..
*16	*16	..	..	171	*80	91	..	..
16	16	..	..	171	80	91	..	..
*16	*16	..	..	*171	*80	*91	..	..
0	0	..	..	48	48	..	..	0
0	0	..	..	48	48	..	..	0
0	0	..	..	50	50	..	..	0
0	0	..	..	52	52	..	..	0
690	686	4	..	2,449	1,219	1,035	..	194
705	701	4	..	2,737	1,241	1,302	..	194
679	675	4	..	2,677	1,170	1,307	..	200
652	647	5	..	2,846	1,122	1,487	..	237
*96	*96	..	..	*237	*175	61	..	1
*96	*96	..	..	*240	*178	61	..	1
*99	*99	..	..	*245	*183	61	..	1
*102	*102	..	..	*250	*188	61	..	1
169	169	..	..	2,081	909	632	..	540
210	210	..	..	2,229	975	670	..	584
210	210	..	..	2,352	975	666	..	711
210	210	..	..	2,428	961	696	..	771
324	262	..	62	641	609	29	..	3
370	262	..	108	661	609	29	..	23
380	262	..	118	661	609	29	..	23
380	262	..	118	665	612	29	..	24
12,648	9,686	195	2,767	54,856	39,735	12,028	1,510	1,583
16,670	12,767	232	3,671	55,904	40,280	12,348	1,608	1,668
16,895	12,772	233	3,890	57,536	41,616	12,395	1,608	1,917
17,897	12,772	233	4,892	59,024	41,616	12,395	1,608	3,405
..	..	..	..	5	5	..	..	..
..	..	..	..	5	5	..	..	..
..	..	..	..	5	5	..	..	..
..	..	..	..	5	5	..	..	..
135	134	1	..	1,211	733	137	..	342
178	177	1	..	1,219	735	142	..	342
178	177	1	..	1,305	809	142	..	355
178	177	1	..	1,305	809	142	..	355

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Panama	2015	3,224	1,202	1,726	..	253	43	..
	2016	3,371	1,235	1,769	..	270	89	8
	2017	3,423	1,225	1,777	..	270	143	8
	2018	4,055	1,811	1,777	..	270	189	8
Puerto Rico	2015	*6,112	*5,800	99	..	125	88	..
	2016	6,257	5,900	99	..	125	133	..
	2017	*6,265	*5,900	*99	..	101	165	..
	2018	*6,265	*5,900	99	..	101	165	..
Sint Maarten (Dutch part)	2015	97	97	..	..	..	..	..
	2016	97	97	..	..	..	..	..
	2017	*88	*88	..	..	..	..	..
	2018	*92	*92	..	..	..	..	..
St. Kitts-Nevis	2015	64	60	..	..	2	*1	..
	2016	65	60	..	..	*2	2	..
	2017	65	60	..	..	*2	2	..
	2018	71	67	..	..	2	2	..
St. Lucia	2015	88	88	..	..	..	..	..
	2016	88	88	..	..	..	..	..
	2017	88	88	..	..	..	..	..
	2018	91	88	..	..	..	3	..
St. Pierre-Miquelon	2015	25	25	..	..	0	..	..
	2016	25	25	..	..	0	..	..
	2017	25	25	..	..	0	..	..
	2018	26	26	..	..	0	..	..
St. Vincent-Grenadines	2015	53	46	6	..	..	1	..
	2016	53	46	6	..	..	1	..
	2017	48	41	6	..	..	1	..
	2018	46	38	6	..	..	2	..
Trinidad and Tobago	2015	2,502	2,499	..	..	..	3	..
	2016	2,505	2,502	..	..	..	3	..
	2017	2,509	2,506	..	..	..	3	..
	2018	2,156	2,153	..	..	..	3	..
Turks and Caicos Islands	2015	82	82	..	..	..	..	..
	2016	82	82	..	..	..	..	..
	2017	82	82	..	..	..	..	..
	2018	84	84	..	..	..	..	..
United States	2015	1,072,470	771,732	102,239	98,672	72,573	23,442	3,812
	2016	1,086,849	764,787	102,692	99,565	81,287	34,716	3,802
	2017	1,100,333	762,765	102,703	99,629	87,597	43,115	4,524
	2018	1,119,131	767,009	102,801	99,433	94,516	51,570	3,802
United States Virgin Is.	2015	340	316	..	..	..	*24	..
	2016	340	316	..	..	..	*24	..
	2017	336	316	..	..	..	*20	..
	2018	336	316	..	..	..	*20	..
America, South	2015	284,326	117,244	152,474	3,753	9,951	837	67
	2016	302,177	122,803	161,189	3,753	12,955	1,476	1
	2017	314,375	125,280	166,089	3,745	15,687	3,550	25
	2018	325,561	126,549	170,756	3,745	18,683	5,787	41
Argentina	2015	37,593	25,541	10,063	1,763	217	9	..
	2016	37,430	25,314	10,127	1,763	217	9	..
	2017	39,764	26,510	11,262	1,755	229	8	..
	2018	42,128	28,122	11,308	1,755	752	191	..
Bolivia (Plur. State of)	2015	*2,417	*1,913	496	..	3	5	..
	2016	*2,447	*1,919	496	..	27	5	..
	2017	*2,611	*1,953	620	..	27	11	..
	2018	*2,772	*1,983	692	..	27	71	..

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
232	172	60	..	2,992	1,030	1,666	..	296
232	172	60	..	3,139	1,063	1,709	..	367
232	172	60	..	3,191	1,053	1,717	..	421
232	172	60	..	3,823	1,639	1,717	..	467
*61	*61	..	..	*6,051	*5,739	99	..	213
*61	*61	..	..	6,196	5,839	99	..	258
*61	*61	..	..	*6,204	*5,839	*99	..	266
*60	*60	..	..	*6,205	*5,840	99	..	266
..	..	..	..	97	97	..	..	..
..	..	..	..	97	97	..	..	..
..	..	..	..	*88	*88	..	..	..
..	..	..	..	*92	*92	..	..	..
*4	*4	..	..	60	56	..	..	4
*4	*4	..	..	61	56	..	..	*4
*4	*4	..	..	61	56	..	..	*4
*4	*4	..	..	67	63	..	..	4
..	..	..	..	88	88	..	..	..
..	..	..	..	88	88	..	..	..
..	..	..	..	88	88	..	..	..
..	..	..	..	91	88	..	..	3
..	..	..	..	25	25	..	..	0
..	..	..	..	25	25	..	..	0
..	..	..	..	25	25	..	..	0
..	..	..	..	26	26	..	..	0
0	..	..	0	53	46	6	..	1
0	..	..	0	53	46	6	..	1
0	..	..	0	48	41	6	..	1
0	..	..	0	45	38	6	..	2
*97	*97	..	..	2,405	2,402	..	..	3
*100	*100	..	..	2,405	2,402	..	..	3
*104	*104	..	..	2,405	2,402	..	..	3
*107	*107	..	..	2,049	2,046	..	..	3
..	..	..	..	82	82	..	..	..
..	..	..	..	82	82	..	..	..
..	..	..	..	82	82	..	..	..
..	..	..	..	84	84	..	..	..
40,974	29,315	306	11,353	1,031,496	742,417	101,933	98,672	88,474
43,858	29,133	357	14,368	1,042,991	735,654	102,335	99,565	105,437
47,338	29,106	357	17,875	1,052,995	733,659	102,346	99,629	117,361
51,200	29,552	284	21,364	1,067,931	737,457	102,517	99,433	128,524
*15	0	..	*15	325	316	..	..	9
*15	0	..	*15	325	316	..	..	9
*15	0	..	*15	321	316	..	..	5
*15	..	..	*15	321	316	..	..	5
34,049	28,555	5,425	69	250,277	88,689	147,049	3,753	10,786
36,542	30,881	5,533	128	265,634	91,922	155,656	3,753	14,303
38,519	32,509	5,611	399	275,856	92,771	160,478	3,745	18,862
39,686	33,264	5,688	734	285,875	93,285	165,069	3,745	23,776
3,646	3,624	20	2	33,947	21,917	10,043	1,763	224
3,614	3,592	20	2	33,816	21,722	10,107	1,763	224
3,614	3,592	20	2	36,150	22,918	11,242	1,755	235
3,614	3,592	20	2	38,514	24,530	11,288	1,755	941
*174	*173	*1	..	*2,243	*1,740	495	..	8
*188	*187	*1	..	*2,259	*1,732	495	..	32
*196	*195	*1	..	*2,415	*1,758	619	..	38
*185	*183	*2	..	*2,588	*1,800	690	..	98

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Brazil	2015	140,857	39,563	91,650	1,990	7,633	21	..
	2016	150,422	41,286	96,931	1,990	10,129	86	..
	2017	157,579	41,881	100,319	1,990	12,293	1,096	..
	2018	163,509	40,561	104,198	1,990	14,400	2,360	..
Chile	2015	21,436	13,451	6,499	..	910	576	0
	2016	24,530	15,695	6,671	..	1,039	1,125	0
	2017	26,309	16,500	6,656	..	1,295	1,834	24
	2018	27,514	16,877	6,630	..	1,529	2,438	40
Colombia	2015	17,686	6,093	11,484	..	18	*25	66
	2016	17,622	5,972	11,606	..	18	*25	0
	2017	17,864	6,084	11,726	..	18	*36	0
	2018	*17,939	*6,084	*11,726	..	*18	111	0
Ecuador	2015	6,545	3,969	2,529	..	21	26	..
	2016	8,697	4,105	4,545	..	21	26	..
	2017	8,385	3,702	4,636	..	21	26	..
	2018	9,028	3,764	5,216	..	21	27	..
Falkland Is. (Malvinas)	2015	11	9	..	..	2	0	..
	2016	11	9	..	..	2	0	..
	2017	11	9	..	..	2	0	..
	2018	11	9	..	..	2	0	..
Guyana	2015	369	366	..	..	0	3	..
	2016	360	356	..	..	0	3	..
	2017	348	343	..	..	0	5	..
	2018	348	340	..	..	0	8	..
Paraguay	2015	8,775	15	8,760	..	..	..	..
	2016	8,761	1	8,760	..	..	..	..
	2017	8,761	1	8,760	..	..	..	..
	2018	8,761	1	8,760	..	..	..	..
Peru	2015	12,089	7,619	4,130	..	240	100	..
	2016	14,517	8,988	5,189	..	240	100	..
	2017	14,775	9,005	5,246	..	240	284	..
	2018	15,214	9,154	5,363	..	372	325	..
Suriname	2015	501	307	189	..	..	5	..
	2016	501	*307	189	..	..	*5	..
	2017	501	*307	189	..	..	*5	..
	2018	504	310	189	..	..	*5	..
Uruguay	2015	3,989	1,530	1,538	..	857	65	..
	2016	3,913	1,075	1,538	..	1,212	89	..
	2017	4,546	1,255	1,538	..	1,511	243	..
	2018	4,912	1,615	1,538	..	1,511	248	..
Venezuela (Bolívar. Rep.)	2015	32,059	16,869	15,137	..	50	2	1
	2016	32,967	17,777	15,137	..	50	2	1
	2017	32,923	17,732	15,137	..	50	3	*1
	2018	32,923	17,732	15,137	..	50	3	*1
Asia	2015	3,130,610	2,205,011	552,326	104,036	166,733	91,886	10,618
	2016	3,390,941	2,346,971	571,960	112,342	196,412	144,517	18,738
	2017	3,533,427	2,370,920	587,717	111,923	217,574	223,520	21,772
	2018	3,698,083	2,438,103	595,110	118,698	240,190	285,562	20,420
Afghanistan	2015	519	*135	384	..	..	..	..
	2016	*519	*135	*384	..	..	..	..
	2017	*519	*135	*384	..	..	..	..
	2018	*519	*135	*384	..	..	..	..
Armenia	2015	3,538	1,840	1,286	408	3	1	..
	2016	3,564	1,840	1,312	408	3	1	..
	2017	3,582	1,840	1,327	408	3	4	..
	2018	3,591	1,827	1,336	408	3	18	..

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
22,851	17,956	4,884	11	118,006	21,607	86,766	1,990	7,643
24,199	19,185	4,949	65	126,223	22,101	91,982	1,990	10,150
24,941	19,751	5,019	171	132,638	22,130	95,300	1,990	13,218
25,498	19,925	5,061	512	138,011	20,636	99,137	1,990	16,248
1,328	1,319	8	1	20,108	12,132	6,491	..	1,485
2,486	2,448	36	2	22,044	13,247	6,635	..	2,162
3,779	3,658	8	113	22,530	12,842	6,648	..	3,040
4,340	4,225	11	104	23,174	12,652	6,619	..	3,903
*1,645	*1,528	*92	*25	16,041	4,565	11,392	..	84
*1,649	*1,530	*94	*25	15,973	4,442	11,512	..	18
*1,649	*1,530	*94	*25	16,215	4,554	11,632	..	29
*1,649	*1,530	*94	*25	*16,290	*4,554	*11,632	..	104
988	861	128	..	5,557	3,109	2,402	..	47
1,090	963	127	..	7,607	3,142	4,418	..	47
*950	*800	*150	..	7,435	2,902	4,486	..	47
980	800	*180	..	8,048	2,964	5,036	..	48
*2	*2	..	..	9	7	..	..	2
*2	*2	..	..	9	7	..	..	2
*2	*2	..	..	9	7	..	..	2
*2	*2	..	..	9	7	..	..	2
54	54	..	..	315	312	..	..	3
54	54	..	..	306	302	..	..	3
50	50	..	..	298	293	..	..	5
51	51	..	..	297	289	..	..	8
..	..	..	..	8,775	15	8,760	..	..
..	..	..	..	8,761	1	8,760	..	..
..	..	..	..	8,761	1	8,760	..	..
..	..	..	..	8,761	1	8,760	..	..
1,578	1,474	104	..	10,511	6,145	4,026	..	340
1,473	1,356	117	..	13,044	7,632	5,072	..	340
1,536	1,366	130	*40	13,239	7,639	5,116	..	484
1,563	1,392	131	*40	13,651	7,762	5,232	..	657
312	123	189	..	189	184	..	..	5
312	*123	189	..	*189	*184	..	..	*5
312	*123	189	..	*189	*184	..	..	*5
312	*123	189	..	192	187	..	..	*5
461	432	..	30	3,527	1,098	1,538	..	891
466	432	..	34	3,447	643	1,538	..	1,266
480	432	..	48	4,066	823	1,538	..	1,705
482	432	..	51	4,429	1,183	1,538	..	1,708
1,010	1,010	..	..	31,049	15,859	15,137	..	53
*1,010	*1,010	..	..	31,957	16,767	15,137	..	53
*1,010	*1,010	..	..	31,913	16,722	15,137	..	54
*1,010	*1,010	..	..	31,913	16,722	15,137	..	54
388,291	320,166	19,347	48,778	2,742,319	1,884,845	532,978	104,036	220,459
342,223	274,881	16,102	51,240	3,048,718	2,072,090	555,858	112,342	308,428
304,859	230,006	16,904	57,949	3,228,568	2,140,914	570,813	111,923	404,918
327,004	249,001	13,463	64,540	3,371,079	2,189,102	581,648	118,698	481,632
*195	65	*130	..	324	*70	254	..	..
*195	*65	*130	..	*324	*70	*254	..	..
*195	*65	*130	..	*324	*70	*254	..	..
*195	*65	*130	..	*324	*70	*254	..	..
..	..	..	..	3,538	1,840	1,286	408	4
..	..	..	..	3,564	1,840	1,312	408	4
2	..	..	2	3,580	1,840	1,327	408	5
10	..	..	10	3,581	1,827	1,336	408	11

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Azerbaijan	2015	7,808	6,692	1,103	..	8	5	..
	2016	7,911	6,766	1,105	..	16	25	..
	2017	7,942	6,791	1,106	..	16	28	..
	2018	7,829	6,597	1,131	..	66	35	..
Bahrain	2015	6,978	6,972	..	..	1	5	..
	2016	6,977	6,971	..	..	1	5	..
	2017	6,977	6,971	..	..	*1	*5	..
	2018	6,977	6,971	..	..	*1	*5	..
Bangladesh	2015	11,150	10,784	*230	..	*1	135	..
	2016	11,866	11,495	230	..	*1	140	..
	2017	12,213	11,817	230	..	*1	165	..
	2018	*15,293	*14,927	230	..	*1	135	..
Bhutan	2015	1,622	8	1,614	..	..	0	..
	2016	1,624	9	1,614	..	1	0	..
	2017	1,623	8	1,614	..	1	0	..
	2018	1,623	8	1,614	..	1	*1	..
Brunei Darussalam	2015	*819	*818	..	..	..	*1	..
	2016	*820	*819	..	..	..	*1	..
	2017	993	992	..	..	..	1	..
	2018	993	992	..	..	..	1	..
Cambodia	2015	1,659	728	930	..	..	*2	..
	2016	1,683	751	930	..	..	*2	..
	2017	1,878	888	980	..	..	10	..
	2018	2,187	847	1,330	..	..	10	..
China	2015	1,628,711	1,095,840	331,671	27,170	130,750	42,180	*1,100
	2016	1,763,172	1,160,274	344,371	33,642	147,472	76,313	*1,100
	2017	1,839,700	1,149,480	356,980	35,820	164,000	130,420	*3,000
	2018	1,959,450	1,194,860	361,130	44,660	184,270	174,330	*200
China, Hong Kong SAR	2015	12,625	12,625	..	..	..	..	..
	2016	12,625	12,625	..	..	..	..	..
	2017	12,492	12,492	..	..	..	..	..
	2018	12,282	12,282	..	..	..	..	..
China, Macao SAR	2015	512	512	..	..	..	..	..
	2016	512	512	..	..	..	..	..
	2017	512	512	..	..	..	..	..
	2018	448	448	..	..	..	..	..
Cyprus	2015	1,752	1,519	..	..	158	76	..
	2016	1,756	1,515	..	..	158	84	..
	2017	1,782	1,515	..	..	158	110	..
	2018	1,794	1,517	..	..	158	119	..
Georgia	2015	2,993	615	2,378	..	..	..	..
	2016	3,299	849	2,430	..	20	..	..
	2017	3,592	849	2,723	..	20	..	..
	2018	3,591	876	2,695	..	20	..	..
India	2015	287,134	210,430	40,337	5,780	*25,088	*5,499	..
	2016	374,789	267,129	44,591	6,780	35,480	12,514	8,295
	2017	400,701	276,294	45,358	6,780	38,186	24,538	9,545
	2018	411,773	282,350	45,447	6,780	38,825	28,455	9,916
Indonesia	2015	74,448	65,967	6,186	..	*5	10	2,280
	2016	59,305	52,622	4,868	..	*7	13	*1,795
	2017	*60,980	*53,517	*5,190	..	*7	*17	*2,249
	2018	64,265	56,383	5,741	..	1	14	2,126
Iran (Islamic Rep. of)	2015	74,185	61,632	11,354	1,020	159	9	12
	2016	74,106	61,262	11,578	1,020	191	43	12
	2017	*76,569	*63,145	11,949	1,020	259	184	12
	2018	*78,794	*65,241	11,953	1,020	282	286	12

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
663	663	..	..	7,145	6,029	1,103	..	13
745	737	..	8	7,167	6,029	1,105	..	33
770	762	..	8	7,172	6,029	1,106	..	36
852	852	..	0	6,977	5,746	1,131	..	101
*3,050	*3,050	..	..	3,928	3,922	..	..	6
*3,050	*3,050	..	..	3,927	3,921	..	..	6
*3,050	*3,050	..	..	3,927	3,921	..	..	*6
*3,050	*3,050	..	..	3,927	3,921	..	..	*6
2,377	2,377	..	..	8,773	8,407	*230	..	136
2,279	2,279	..	..	9,587	9,216	230	..	141
2,404	2,404	..	..	9,809	9,413	230	..	166
*2,636	*2,636	..	..	*12,657	*12,291	230	..	136
..	..	..	..	1,622	8	1,614	..	0
..	..	..	..	1,624	9	1,614	..	1
..	..	..	..	1,623	8	1,614	..	1
..	..	..	..	1,623	8	1,614	..	1
*110	*110	..	..	*709	*708	..	..	*1
*110	*110	..	..	*709	*708	..	..	*1
117	117	..	..	876	875	..	..	1
117	117	..	..	876	875	..	..	1
..	..	..	..	1,659	728	930	..	*2
..	..	..	..	1,683	751	930	..	*2
..	..	..	..	1,878	888	980	..	10
..	..	..	..	2,187	847	1,330	..	10
*102,431	*90,300	*12,131	..	1,526,280	1,005,540	319,540	27,170	174,030
*111,630	*99,330	*12,300	..	1,651,542	1,060,944	332,071	33,642	224,885
*57,400	*44,530	*12,870	..	1,782,300	1,104,950	344,110	35,820	297,420
*59,730	*51,190	*8,540	..	1,899,720	1,143,670	352,590	44,660	358,800
..	..	..	..	12,625	12,625	..	..	..
..	..	..	..	12,625	12,625	..	..	..
..	..	..	..	12,492	12,492	..	..	..
..	..	..	..	12,282	12,282	..	..	..
*40	*40	..	..	472	472	..	..	..
*40	*40	..	..	472	472	..	..	..
*40	*40	..	..	472	472	..	..	..
*40	*40	..	..	408	408	..	..	..
67	41	..	26	1,685	1,478	..	..	208
67	37	..	30	1,689	1,478	..	..	212
72	37	..	35	1,710	1,478	..	..	233
78	37	..	41	1,716	1,481	..	..	236
..	..	..	..	2,993	615	2,378	..	..
..	..	..	..	3,299	849	2,430	..	20
..	..	..	..	3,592	849	2,723	..	20
..	..	..	..	3,591	876	2,695	..	20
82,020	79,955	65	*2,000	205,114	130,475	40,272	5,780	*28,587
52,283	48,799	59	*3,425	322,506	218,330	44,532	6,780	52,864
56,877	53,387	65	*3,425	343,824	222,907	45,293	6,780	68,844
59,594	56,071	48	*3,475	352,179	226,279	45,399	6,780	73,721
*19,054	*17,000	*1,300	*754	55,394	48,967	4,886	..	1,541
*19,325	*17,000	*1,300	*1,025	39,980	35,622	3,568	..	790
*19,881	*17,289	*1,386	*1,206	*41,099	*36,228	*3,804	..	*1,067
21,024	18,863	2,159	2	43,241	37,520	3,582	..	2,139
5,581	5,581	..	..	68,604	56,051	11,354	1,020	179
5,581	5,581	..	..	68,525	55,681	11,578	1,020	246
*5,753	*5,753	..	..	*70,816	*57,392	11,949	1,020	455
*5,905	*5,905	..	..	*72,889	*59,336	11,953	1,020	580

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Iraq	2015	31,148	28,598	2,513	..	..	37	..
	2016	32,214	29,664	2,513	..	..	37	..
	2017	26,133	24,300	1,796	..	..	37	..
	2018	27,412	25,400	1,796	..	..	216	..
Israel	2015	17,221	16,466	7	..	6	742	..
	2016	17,585	16,689	7	..	27	862	..
	2017	17,827	16,813	9	..	27	978	..
	2018	18,019	16,617	9	..	35	1,358	..
Japan	2015	326,444	194,388	50,034	42,048	2,808	34,150	*3,016
	2016	338,210	198,299	50,117	41,482	3,246	42,040	*3,026
	2017	342,198	197,092	50,014	39,132	3,483	49,500	*2,977
	2018	347,368	196,656	50,037	38,042	3,497	56,162	*2,974
Jordan	2015	4,455	4,320	12	..	118	5	..
	2016	4,475	3,969	12	..	198	296	..
	2017	4,506	3,890	12	..	198	406	..
	2018	4,736	3,745	12	..	280	699	..
Kazakhstan	2015	*25,149	*22,500	*2,500	..	*100	*49	..
	2016	*25,223	*22,500	*2,500	..	*170	*53	..
	2017	*25,256	*22,500	*2,500	..	*200	*56	..
	2018	24,658	21,902	*2,500	..	*200	*56	..
Korea, Dem.Ppl's.Rep.	2015	7,435	2,960	4,467	..	..	*8	..
	2016	7,671	2,960	4,701	..	..	*10	..
	2017	7,731	2,960	4,761	..	..	*10	..
	2018	8,160	3,360	4,790	..	..	*10	..
Korea, Republic of	2015	103,191	70,108	6,471	21,716	847	3,615	434
	2016	111,203	75,559	6,485	23,116	1,067	4,502	474
	2017	122,950	86,377	6,489	22,529	1,215	5,834	506
	2018	127,475	89,013	6,490	21,850	1,420	8,099	603
Kuwait	2015	18,279	18,279	..	..	..	..	..
	2016	18,892	18,890	..	..	..	*2	..
	2017	18,765	18,763	..	..	..	*2	..
	2018	18,867	18,863	..	..	..	*4	..
Kyrgyzstan	2015	*3,865	*801	*3,064	..	..	..	..
	2016	*3,786	*722	*3,064	..	..	..	..
	2017	3,869	*734	3,135	..	..	..	..
	2018	*3,869	*734	*3,135	..	..	..	..
Lao People's Dem. Rep.	2015	5,813	1,918	3,894	..	..	2	..
	2016	6,457	1,918	4,538	..	..	2	..
	2017	6,916	1,903	5,006	..	..	7	..
	2018	7,171	1,909	5,256	..	..	7	..
Lebanon	2015	3,643	3,359	*274	..	..	10	..
	2016	3,662	3,359	280	..	..	23	..
	2017	3,698	3,409	*253	..	..	36	..
	2018	3,704	3,409	*253	..	..	42	..
Malaysia	2015	30,440	23,519	5,716	..	..	226	979
	2016	33,090	25,732	6,137	..	..	280	940
	2017	33,334	26,848	6,128	..	..	358	..
	2018	34,389	26,432	6,168	..	..	1,004	786
Maldives	2015	271	266	..	..	1	4	..
	2016	274	266	..	..	1	7	..
	2017	*277	*266	..	..	1	10	..
	2018	*277	*266	..	..	1	10	..
Mongolia	2015	*1,171	*1,092	26	..	52	1	..
	2016	*1,189	*1,103	29	..	52	5	..
	2017	1,286	1,132	29	..	102	23	..
	2018	*1,461	*1,210	31	..	156	64	..

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
37	..	..	37	31,111	28,598	2,513	..	..
37	..	..	37	32,177	29,664	2,513	..	..
37	..	..	37	26,096	24,300	1,796	..	..
216	..	..	216	27,196	25,400	1,796	..	..
1,235	491	2	742	15,986	15,975	5	..	6
1,387	523	2	862	16,198	16,166	5	..	27
1,591	608	5	978	16,236	16,205	4	..	27
2,018	653	7	1,358	16,001	15,964	2	..	35
94,960	51,348	4,248	39,364	231,484	143,040	45,786	42,048	610
63,756	23,907	596	39,253	274,454	174,392	49,521	41,482	9,059
69,367	23,831	452	45,084	272,831	173,261	49,562	39,132	10,876
75,725	25,187	455	50,083	271,643	171,469	49,582	38,042	12,550
*199	*199	..	..	4,256	4,121	12	..	123
*199	*199	..	..	4,276	3,770	12	..	494
*199	*199	..	..	4,307	3,691	12	..	604
*199	*199	..	..	4,537	3,546	12	..	979
*1	..	..	*1	*25,148	*22,500	*2,500	..	*148
*1	..	..	*1	*25,222	*22,500	*2,500	..	*222
*1	..	..	*1	*25,255	*22,500	*2,500	..	*255
*1	..	..	*1	24,657	21,902	*2,500	..	*255
..	..	..	..	7,435	2,960	4,467	..	*8
..	..	..	..	7,671	2,960	4,701	..	*10
..	..	..	..	7,731	2,960	4,761	..	*10
..	..	..	..	8,160	3,360	4,790	..	*10
7,496	6,404	..	1,092	95,695	63,704	6,471	21,716	3,804
7,461	6,656	..	805	103,742	68,903	6,485	23,116	5,238
9,037	8,247	..	790	113,913	78,130	6,489	22,529	6,765
9,862	8,875	..	987	117,613	80,138	6,490	21,850	9,135
*20	*20	..	..	18,259	18,259	..	..	..
22	20	..	*2	18,870	18,870	..	..	..
22	20	..	*2	18,743	18,743	..	..	..
74	70	..	*4	18,793	18,793	..	..	..
*6	*6	..	..	*3,859	*795	*3,064	..	..
*6	*6	..	..	*3,780	*716	*3,064	..	..
*6	*6	..	..	3,863	*728	3,135	..	..
*6	*6	..	..	*3,863	*728	*3,135	..	..
..	..	..	..	5,813	1,918	3,894	..	2
..	..	..	..	6,457	1,918	4,538	..	2
..	..	..	..	6,916	1,903	5,006	..	7
..	..	..	..	7,171	1,909	5,256	..	7
*1,060	*1,050	..	10	2,583	2,309	*274	..	..
*1,073	*1,050	..	23	2,589	2,309	280	..	..
*1,136	*1,100	..	36	2,562	2,309	*253	..	..
*1,142	*1,100	..	42	2,562	2,309	*253	..	..
3,072	2,210	2	860	27,368	21,309	5,714	..	345
3,301	2,506	2	793	29,789	23,226	6,135	..	427
2,442	2,438	2	2	30,892	24,410	6,126	..	356
2,676	1,952	0	723	31,714	24,479	6,168	..	1,066
125	125	..	..	146	141	..	..	5
125	125	..	..	149	141	..	..	8
*125	*125	..	..	*152	*141	..	..	11
*125	*125	..	..	*152	*141	..	..	11
36	*10	26	..	*1,135	*1,082	..	..	53
39	*10	29	..	*1,150	*1,093	..	..	57
39	*10	29	..	1,247	1,122	..	..	125
41	*10	31	..	*1,420	*1,200	..	..	220

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Myanmar	2015	5,259	2,076	3,183	..	..	..	..
	2016	5,390	2,135	3,255	..	..	..	..
	2017	5,799	2,387	3,402	..	..	*10	..
	2018	5,828	2,392	3,436	..	..	..	..
Nepal	2015	798	53	738	..	*6	*1	..
	2016	979	53	919	..	*6	*1	..
	2017	*1,141	53	*1,081	..	*6	*1	..
	2018	1,189	53	1,129	..	*6	*1	..
Oman	2015	7,870	7,868	..	..	..	2	..
	2016	8,167	8,165	..	..	..	2	..
	2017	8,236	8,228	..	..	..	8	..
	2018	8,828	8,820	..	..	..	8	..
Other Asia	2015	48,702	37,026	4,691	5,144	941	900	..
	2016	49,618	37,544	4,691	5,144	976	1,263	..
	2017	49,324	36,717	4,691	5,144	986	1,786	..
	2018	52,484	39,510	4,694	4,508	1,016	2,756	..
Pakistan	2015	24,699	16,315	7,115	750	256	100	163
	2016	26,756	17,926	7,115	750	339	400	226
	2017	31,418	21,684	7,115	1,090	791	400	338
	2018	34,880	24,324	7,270	1,430	1,041	436	379
Philippines	2015	18,989	12,864	3,616	..	427	165	1,917
	2016	21,869	15,127	3,634	..	427	765	1,916
	2017	23,341	16,470	3,643	..	427	885	1,916
	2018	23,951	16,967	3,717	..	427	896	1,944
Qatar	2015	*8,561	*8,561	..	..	..	..	..
	2016	*8,559	*8,559	..	..	..	..	..
	2017	*10,170	*10,170	..	..	..	..	..
	2018	*10,590	*10,590	..	..	..	..	..
Saudi Arabia	2015	69,156	69,155	..	..	..	1	..
	2016	74,703	74,702	..	..	0	1	..
	2017	80,474	80,471	..	..	3	1	..
	2018	*76,944	*76,941	..	..	*3	*1	..
Singapore	2015	13,059	13,013	..	..	..	46	..
	2016	13,445	13,348	..	..	..	97	..
	2017	13,612	13,500	..	..	..	112	..
	2018	13,614	13,500	..	..	..	115	..
Sri Lanka	2015	3,948	2,108	1,684	..	127	29	..
	2016	4,010	2,088	1,722	..	129	71	..
	2017	4,094	2,144	1,720	..	128	102	..
	2018	4,124	2,069	1,793	..	128	134	..
State of Palestine	2015	172	160	..	..	..	12	..
	2016	185	160	..	..	..	25	..
	2017	190	160	..	..	..	30	..
	2018	200	160	..	..	..	40	..
Syrian Arab Republic	2015	*9,123	*7,550	1,572	..	1	..	..
	2016	9,687	8,192	1,494	..	1	..	..
	2017	*9,691	*8,199	1,490	..	1	1	..
	2018	10,059	8,567	1,490	..	1	1	..
Tajikistan	2015	6,283	422	5,861	..	..	..	..
	2016	6,577	719	5,858	..	..	..	..
	2017	*6,577	*719	*5,858	..	..	..	..
	2018	*6,619	*719	*5,900	..	..	..	..
Thailand	2015	58,508	51,403	3,453	..	233	*3,419	0
	2016	61,032	53,653	3,452	..	*507	*3,419	0
	2017	61,024	53,505	3,452	..	*628	*3,438	0
	2018	64,051	55,251	3,667	..	1,103	*4,029	0

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
*628	*456	*172	..	4,631	1,620	3,011	..	..
800	628	172	..	4,590	1,507	3,083	..	..
591	414	*177	..	5,208	1,973	3,225	..	*10
673	496	*177	..	5,155	1,896	3,259	..	..
97	..	97	..	701	53	641	..	*7
278	..	278	..	701	53	641	..	*7
513	..	513	0	*628	53	*568	..	*7
561	..	561	0	628	53	568	..	*7
..	..	..	..	7,870	7,868	..	..	2
..	..	..	..	8,167	8,165	..	..	2
..	..	..	..	8,236	8,228	..	..	8
..	..	..	..	8,828	8,820	..	..	8
16,996	15,465	..	1,531	31,706	21,561	4,691	5,144	310
17,113	15,186	..	1,927	32,505	22,358	4,691	5,144	312
17,536	15,076	..	2,460	31,788	21,641	4,691	5,144	312
19,028	15,577	..	3,451	33,456	23,933	4,694	4,508	321
630	467	..	163	24,069	15,848	7,115	750	356
693	467	..	226	26,063	17,459	7,115	750	739
831	493	..	338	30,587	21,191	7,115	1,090	1,191
872	493	..	379	34,008	23,831	7,270	1,430	1,477
*224	*208	*16	..	18,765	12,656	3,600	..	2,509
*444	*428	*16	..	21,425	14,699	3,618	..	3,108
*613	*597	*16	..	22,728	15,873	3,627	..	3,228
*136	*120	*16	..	23,815	16,847	3,701	..	3,267
*7,277	*7,277	..	..	*1,284	*1,284	..	..	..
*7,275	*7,275	..	..	*1,284	*1,284	..	..	..
*8,644	*8,644	..	..	*1,526	*1,526	..	..	..
*9,038	*9,038	..	..	*1,553	*1,553	..	..	..
10,979	10,979	..	..	58,177	58,176	..	..	1
12,124	12,124	..	..	62,579	62,578	..	..	1
14,626	14,626	..	..	65,848	65,845	..	..	3
*19,235	*19,235	..	..	*57,709	*57,706	..	..	*3
418	418	..	..	12,641	12,595	..	..	46
418	418	..	..	13,027	12,931	..	..	97
569	569	..	..	13,043	12,931	..	..	112
569	569	..	..	13,046	12,931	..	..	115
355	20	307	28	3,593	2,088	1,377	..	128
412	24	338	50	3,598	2,064	1,384	..	150
436	29	356	51	3,658	2,115	1,364	..	179
482	*32	394	*56	3,642	2,037	1,399	..	206
26	20	..	6	146	140	..	..	6
33	20	..	13	153	140	..	..	13
35	20	..	15	155	140	..	..	15
40	20	..	20	160	140	..	..	20
*1,095	*1,095	..	..	*8,028	*6,455	1,572	..	1
912	912	..	..	8,775	7,280	1,494	..	1
*912	*912	..	..	*8,779	*7,287	1,490	..	2
972	972	..	..	9,087	7,595	1,490	..	2
..	..	..	..	6,283	422	5,861	..	..
..	..	..	..	6,577	719	5,858	..	..
..	..	..	..	*6,577	*719	*5,858	..	..
42	..	42	..	*6,577	*719	*5,858	..	..
*17,974	*15,974	..	*2,000	40,534	35,429	3,453	..	1,652
*17,974	*15,974	..	*2,000	43,058	37,679	3,452	..	*1,926
*16,949	*14,949	..	*2,000	44,075	38,556	3,452	..	*2,066
*17,755	*15,755	..	*2,000	46,296	39,496	3,667	..	*3,132

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Timor-Leste	2015	283	283	0	..	..	1	..
	2016	283	283	0	..	..	1	..
	2017	283	283	0	..	..	1	..
	2018	283	283	0	..	..	1	..
Turkey	2015	73,147	41,810	25,868	..	4,503	249	717
	2016	78,497	44,278	26,681	..	5,751	833	954
	2017	85,201	46,762	27,273	..	6,516	3,421	1,229
	2018	88,551	46,712	28,291	..	7,006	5,062	1,480
Turkmenistan	2015	*4,400	*4,400	..	..	..	..	..
	2016	4,674	4,674	..	..	..	..	..
	2017	5,200	5,200	..	..	..	..	..
	2018	5,200	5,200	..	..	..	..	..
United Arab Emirates	2015	28,745	28,622	..	..	..	123	..
	2016	28,761	28,638	..	..	..	123	..
	2017	30,371	30,048	..	..	..	323	..
	2018	*30,934	*30,349	..	..	..	585	..
Uzbekistan	2015	13,217	11,335	1,880	..	..	1	..
	2016	14,104	12,222	1,880	..	..	2	..
	2017	14,377	12,516	1,858	..	..	3	..
	2018	14,195	12,276	1,915	..	..	4	..
Viet Nam	2015	*39,133	*22,779	16,213	..	135	6	..
	2016	*43,416	*25,783	17,461	..	166	6	..
	2017	*44,334	*25,953	18,161	..	211	9	..
	2018	*44,815	*26,125	18,341	..	243	106	..
Yemen	2015	1,579	1,519	..	..	..	60	..
	2016	1,769	1,519	..	..	..	*250	..
	2017	*1,769	*1,519	..	..	..	*250	..
	2018	*1,769	*1,519	..	..	..	*250	..
Europe	2015	1,390,982	714,059	265,692	165,429	142,803	99,521	3,478
	2016	1,408,833	708,178	269,123	166,408	155,594	105,992	3,537
	2017	1,431,665	708,160	271,098	166,004	170,462	112,281	3,660
	2018	1,457,716	711,517	272,455	166,820	182,039	121,180	3,705
Albania	2015	1,922	123	1,799	..	..	0	..
	2016	1,925	*123	1,801	..	..	1	..
	2017	2,172	123	2,048	..	..	1	..
	2018	2,229	123	2,105	..	..	1	..
Andorra	2015	51	5	46	..	..	0	..
	2016	51	5	46	..	..	0	..
	2017	52	5	46	..	..	1	..
	2018	53	5	46	..	..	2	..
Austria	2015	24,742	7,665	13,650	..	2,489	937	1
	2016	25,217	7,273	14,117	..	2,730	1,096	1
	2017	24,920	6,613	14,150	..	2,887	1,269	1
	2018	25,620	6,532	14,516	..	3,133	1,438	1
Belarus	2015	9,798	9,750	34	..	7	7	..
	2016	10,009	9,826	74	..	62	47	..
	2017	10,151	9,884	103	..	84	80	..
	2018	*10,269	*9,907	*105	..	101	157	..
Belgium	2015	21,167	8,520	1,422	5,913	2,176	3,132	4
	2016	21,668	8,629	1,425	5,913	2,370	3,327	4
	2017	22,236	8,483	1,417	5,918	2,797	3,617	4
	2018	22,793	8,205	1,418	5,918	3,261	3,987	4
Bosnia and Herzegovina	2015	*4,304	*2,187	*2,117	..	..	..	..
	2016	4,364	2,200	2,155	..	..	9	..
	2017	4,522	2,295	2,211	..	..	16	..
	2018	4,440	2,135	2,236	..	51	18	..

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	283	283	0	..	1
..	..	..	..	283	283	0	..	1
..	..	..	..	283	283	0	..	1
..	..	..	..	283	283	0	..	1
4,453	3,811	544	98	68,694	37,999	25,324	..	5,371
5,277	4,223	550	504	73,220	40,055	26,131	..	7,034
6,190	4,417	551	1,222	79,011	42,345	26,722	..	9,944
6,437	4,450	551	1,436	82,114	42,262	27,740	..	12,112
..	..	..	..	*4,400	*4,400	..	..	..
..	..	..	..	4,674	4,674	..	..	..
..	..	..	..	5,200	5,200	..	..	..
..	..	..	..	5,200	5,200	..	..	..
..	..	..	..	28,745	28,622	..	..	123
..	..	..	..	28,761	28,638	..	..	123
..	..	..	..	30,371	30,048	..	..	323
..	..	..	..	*30,934	*30,349	..	..	585
..	..	..	..	13,217	11,335	1,880	..	1
..	..	..	..	14,104	12,222	1,880	..	2
..	..	..	..	14,377	12,516	1,858	..	3
..	..	..	..	14,195	12,276	1,915	..	4
*3,128	*2,814	*308	*6	*36,005	*19,965	15,905	..	135
*5,391	*5,055	*330	*6	*38,025	*20,728	17,131	..	166
*5,483	*5,125	*352	*6	*38,851	*20,828	17,809	..	214
*5,483	*5,125	*352	*6	*39,332	*21,000	17,989	..	343
*177	*117	..	60	1,402	1,402	..	..	..
*367	*117	..	*250	1,402	1,402	..	..	..
*367	*117	..	*250	*1,402	*1,402	..	..	..
*367	*117	..	*250	*1,402	*1,402	..	..	..
112,462	84,309	3,055	25,098	1,278,520	629,750	262,637	165,429	220,704
116,752	84,473	3,261	29,018	1,292,081	623,705	265,862	166,408	236,106
126,077	91,609	3,231	31,237	1,305,588	616,551	267,867	166,004	255,166
132,225	94,678	3,221	34,326	1,325,491	616,839	269,234	166,820	272,598
*25	*25	..	..	1,897	98	1,799	..	0
*25	*25	..	..	1,900	*98	1,801	..	1
25	25	..	..	2,147	98	2,048	..	1
25	25	..	..	2,204	98	2,105	..	1
..	..	..	..	51	5	46	..	0
..	..	..	..	51	5	46	..	0
..	..	..	..	52	5	46	..	1
..	..	..	..	53	5	46	..	2
2,238	1,701	537	..	22,504	5,964	13,113	..	3,427
2,258	1,712	546	..	22,959	5,561	13,571	..	3,827
1,773	1,341	432	..	23,147	5,272	13,718	..	4,157
1,716	1,288	428	..	23,904	5,244	14,088	..	4,572
809	797	6	6	8,989	8,953	28	..	8
856	841	6	9	9,153	8,985	68	..	100
854	806	6	42	9,297	9,078	97	..	122
*900	*810	*7	83	*9,369	*9,097	*98	..	175
4,470	1,321	..	3,149	16,697	7,199	1,422	5,913	2,163
4,817	1,467	..	3,350	16,851	7,162	1,425	5,913	2,351
5,115	1,466	..	3,649	17,121	7,017	1,417	5,918	2,769
5,564	1,545	..	4,019	17,229	6,660	1,418	5,918	3,233
*230	*230	..	..	*4,074	*1,957	*2,117	..	..
*230	*230	..	..	4,134	1,970	2,155	..	9
*230	*230	..	..	4,292	2,065	2,211	..	16
70	70	..	..	4,370	2,065	2,236	..	69

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Bulgaria	2015	11,016	3,991	3,219	1,975	699	1,029	103
	2016	10,904	3,822	3,223	1,967	699	1,028	165
	2017	11,069	3,785	3,372	*1,967	698	1,036	211
	2018	11,286	4,017	3,379	*1,967	699	1,033	191
Croatia	2015	4,764	2,124	2,207	..	*375	*58	..
	2016	4,794	2,082	2,175	..	482	56	..
	2017	4,982	2,141	2,205	..	576	60	..
	2018	4,999	2,142	2,202	..	586	68	*1
Czechia	2015	21,866	12,960	2,260	4,290	281	2,075	..
	2016	21,989	13,087	2,262	4,290	282	2,068	..
	2017	22,267	13,334	2,265	4,290	308	2,070	..
	2018	22,276	13,331	2,264	4,290	316	2,075	..
Denmark	2015	14,002	8,136	7	..	5,077	782	..
	2016	14,226	8,120	9	..	5,246	851	..
	2017	14,321	7,916	9	..	5,490	906	..
	2018	15,073	7,945	9	..	6,121	998	..
Estonia	2015	2,857	2,551	6	..	300	..	..
	2016	2,577	2,251	6	..	310	10	..
	2017	2,542	2,208	7	..	312	15	..
	2018	2,819	2,470	7	..	310	32	..
Faeroe Islands	2015	*128	*69	39	..	20	..	..
	2016	*129	*70	*39	..	*20	..	..
	2017	125	69	40	..	16	..	..
	2018	125	69	40	..	16	..	..
Finland	2015	16,616	9,593	3,249	2,752	1,005	17	..
	2016	16,289	8,672	3,249	2,764	1,565	39	..
	2017	17,174	8,997	3,272	2,779	2,044	82	..
	2018	17,154	8,902	3,287	2,784	2,041	140	..
France	2015	132,219	25,867	25,552	63,130	10,298	7,137	235
	2016	133,150	24,895	25,620	63,130	11,567	7,702	236
	2017	133,089	21,907	25,707	63,130	13,499	8,611	235
	2018	133,457	19,783	25,793	63,130	14,900	9,617	234
Germany	2015	203,255	96,967	11,255	10,799	44,580	39,222	432
	2016	208,215	95,716	11,207	10,799	49,435	40,677	381
	2017	215,324	95,134	11,120	10,799	55,580	42,291	400
	2018	229,195	103,030	10,940	10,799	58,843	45,179	404
Gibraltar	2015	*43	*43	..	..	..	..	..
	2016	*43	*43	..	..	..	..	0
	2017	*43	*43	..	..	..	..	0
	2018	*43	*43	..	..	..	..	0
Greece	2015	18,942	10,855	3,392	..	2,091	2,604	..
	2016	19,165	10,799	3,392	..	2,370	2,604	..
	2017	19,427	10,805	3,392	..	2,624	2,606	..
	2018	19,582	10,644	3,409	..	2,877	2,652	..
Guernsey	2015	*115	*115	..	..	..	..	..
	2016	*115	*115	..	..	..	..	..
	2017	*132	*132	..	..	..	..	..
	2018	*132	*132	..	..	..	0	..
Hungary	2015	8,634	6,062	57	2,000	329	172	14
	2016	8,758	6,100	57	2,000	329	235	37
	2017	8,860	6,090	57	2,000	329	344	40
	2018	9,249	6,083	57	2,013	329	726	41
Iceland	2015	2,772	117	1,987	..	3	..	665
	2016	2,772	117	1,987	..	3	..	665
	2017	2,823	116	1,995	..	2	..	710
	2018	2,973	116	2,099	..	2	..	756

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
240	137	..	103	10,776	3,854	3,219	1,975	1,728
352	187	..	165	10,552	3,635	3,223	1,967	1,727
445	234	..	211	10,624	3,551	3,372	*1,967	1,734
425	234	..	191	10,861	3,783	3,379	*1,967	1,732
167	165	*2	..	4,597	1,959	2,205	..	*433
*167	*165	*2	..	4,627	1,917	2,173	..	537
160	157	3	..	4,822	1,984	2,202	..	636
165	162	*3	..	4,834	1,980	2,199	..	655
1,876	1,685	191	..	19,990	11,275	2,069	4,290	2,356
1,893	1,702	191	..	20,096	11,385	2,071	4,290	2,350
1,936	1,752	184	..	20,331	11,582	2,081	4,290	2,378
1,928	1,745	183	..	20,348	11,586	2,081	4,290	2,391
1,397	615	..	782	12,605	7,521	7	..	5,077
1,470	619	..	851	12,756	7,501	9	..	5,246
1,536	630	..	906	12,785	7,286	9	..	5,490
1,637	639	..	998	13,436	7,306	9	..	6,121
31	25	..	6	2,826	2,526	6	..	294
31	25	..	6	2,546	2,226	6	..	314
27	25	..	2	2,515	2,183	7	..	325
26	25	..	1	2,793	2,445	7	..	341
..	..	..	..	*128	*69	39	..	20
..	..	..	..	*129	*70	*39	..	*20
..	..	..	..	125	69	40	..	16
..	..	..	..	125	69	40	..	16
2,052	1,850	186	16	14,564	7,743	3,063	2,752	1,006
2,068	1,846	186	36	14,221	6,826	3,063	2,764	1,568
2,306	2,039	188	79	14,868	6,958	3,084	2,779	2,047
2,364	2,038	189	137	14,790	6,864	3,098	2,784	2,044
7,918	3,705	184	4,029	124,301	22,162	25,368	63,130	13,641
8,334	3,830	185	4,319	124,816	21,065	25,435	63,130	15,186
8,683	3,703	189	4,791	124,406	18,204	25,518	63,130	17,554
9,210	3,720	184	5,306	124,247	16,063	25,609	63,130	19,445
10,718	10,415	43	260	192,537	86,552	11,212	10,799	83,974
10,588	10,307	43	238	197,627	85,409	11,164	10,799	90,255
11,579	11,310	42	227	203,745	83,824	11,078	10,799	98,044
11,988	11,729	32	227	217,207	91,301	10,908	10,799	104,199
..	..	..	..	*43	*43	..	..	..
..	..	..	..	*43	*43	..	..	0
..	..	..	..	*43	*43	..	..	0
..	..	..	..	*43	*43	..	..	0
561	561	..	..	18,381	10,294	3,392	..	4,695
568	568	..	..	18,597	10,231	3,392	..	4,974
571	571	..	..	18,856	10,234	3,392	..	5,230
568	568	..	..	19,014	10,076	3,409	..	5,529
..	..	..	..	*115	*115	..	..	..
..	..	..	..	*115	*115	..	..	..
..	..	..	..	*132	*132	..	..	..
..	..	..	..	*132	*132	..	..	0
376	206	..	170	8,258	5,856	57	2,000	345
468	222	..	246	8,290	5,878	57	2,000	355
592	253	..	339	8,268	5,837	57	2,000	374
899	246	..	653	8,350	5,837	57	2,013	443
..	..	..	..	2,772	117	1,987	..	668
..	..	..	..	2,772	117	1,987	..	668
..	..	..	..	2,823	116	1,995	..	712
..	..	..	..	2,973	116	2,099	..	758

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Ireland	2015	9,679	6,697	529	..	2,451	2	..
	2016	10,017	6,696	529	..	2,786	6	..
	2017	10,608	6,745	529	..	3,318	16	..
	2018	10,981	6,752	529	..	3,676	24	..
Isle of Man	2015	194	193	1	..	..	..	..
	2016	184	183	1	..	..	..	..
	2017	187	186	1	..	..	..	..
	2018	187	186	1	..	..	..	..
Italy	2015	116,964	65,617	22,220	..	9,137	18,901	1,089
	2016	114,162	62,096	22,298	..	9,384	19,283	1,101
	2017	114,240	61,289	22,426	..	9,737	19,682	1,106
	2018	115,220	61,276	22,498	..	10,230	20,108	1,108
Jersey	2015	78	78	..	..	..	..	..
	2016	78	78	..	..	..	..	..
	2017	78	78	..	..	..	..	..
	2018	78	78	..	..	..	..	..
Kosovo	2015	959	915	43	..	1	..	..
	2016	1,009	915	86	..	1	7	..
	2017	1,409	1,288	80	..	34	7	..
	2018	1,409	1,288	80	..	34	7	..
Latvia	2015	2,931	1,275	1,588	..	68	..	0
	2016	2,927	1,292	1,564	..	70	1	0
	2017	2,942	1,299	1,564	..	78	1	..
	2018	2,915	1,269	1,565	..	79	2	..
Liechtenstein	2015	*16	*1	*10	..	..	*5	..
	2016	*16	*1	*10	..	..	*5	..
	2017	*16	*1	*10	..	..	*5	..
	2018	*16	*1	*10	..	..	*5	..
Lithuania	2015	3,587	2,180	877	..	436	69	25
	2016	3,665	2,184	877	..	509	70	25
	2017	3,326	1,832	877	..	518	74	25
	2018	3,354	1,837	877	..	533	82	25
Luxembourg	2015	2,024	514	1,330	..	64	116	..
	2016	1,710	138	1,330	..	120	122	..
	2017	1,711	133	1,330	..	120	128	..
	2018	1,718	134	1,330	..	123	131	..
Malta	2015	668	593	..	..	0	75	..
	2016	573	480	..	..	0	94	..
	2017	707	595	..	..	0	112	..
	2018	726	595	..	..	0	131	..
Montenegro	2015	870	219	651	..	..	..	..
	2016	870	219	651	..	..	..	..
	2017	949	225	652	..	72	..	..
	2018	*999	*225	*652	..	118	3	..
Netherlands	2015	33,866	28,401	37	485	3,391	1,515	37
	2016	34,176	27,311	37	485	4,257	2,049	37
	2017	33,815	26,150	37	485	4,202	2,904	37
	2018	35,024	25,550	37	485	4,393	4,522	37
North Macedonia	2015	1,790	1,074	658	..	37	17	4
	2016	1,823	1,104	660	..	37	17	5
	2017	1,836	1,104	671	..	37	17	7
	2018	1,839	1,104	674	..	37	17	7
Norway	2015	33,837	1,563	31,372	..	867	..	35
	2016	33,808	1,073	31,817	..	883	..	35
	2017	34,228	1,074	31,912	..	1,207	..	35
	2018	35,348	1,073	32,530	..	1,710	..	35

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
361	343	..	18	9,318	6,354	529	..	2,435
367	345	..	22	9,650	6,351	529	..	2,770
386	350	..	36	10,222	6,395	529	..	3,298
403	356	..	47	10,578	6,396	529	..	3,653
*8	*8	..	..	186	185	1	..	..
8	8	..	..	176	175	1	..	..
8	8	..	..	180	179	1	..	..
8	8	..	..	180	179	1	..	..
5,258	5,042	121	95	111,706	60,575	22,099	..	29,032
4,834	4,658	117	59	109,328	57,438	22,181	..	29,709
5,034	4,863	119	52	109,206	56,426	22,307	..	30,473
5,521	5,347	105	69	109,699	55,929	22,393	..	31,377
*28	*28	..	..	50	50	..	..	..
*28	*28	..	..	50	50	..	..	..
*28	*28	..	..	50	50	..	..	..
*28	*28	..	..	50	50	..	..	..
..	..	..	..	959	915	43	..	1
..	..	..	..	1,009	915	86	..	8
..	..	..	..	1,409	1,288	80	..	40
..	..	..	..	1,409	1,288	80	..	40
42	41	1	0	2,889	1,234	1,587	..	68
44	41	1	2	2,883	1,251	1,563	..	69
34	31	1	2	2,908	1,268	1,563	..	77
35	30	2	3	2,880	1,239	1,563	..	78
..	..	..	..	*16	*1	*10	..	*5
..	..	..	..	*16	*1	*10	..	*5
..	..	..	..	*16	*1	*10	..	*5
..	..	..	..	*16	*1	*10	..	*5
274	249	..	25	3,313	1,931	877	..	505
278	253	..	25	3,387	1,931	877	..	579
280	255	..	25	3,046	1,577	877	..	592
280	255	..	25	3,074	1,582	877	..	615
180	62	2	116	1,844	452	1,328	..	64
201	77	2	122	1,509	61	1,328	..	120
188	58	2	128	1,523	75	1,328	..	120
188	55	2	131	1,530	79	1,328	..	123
78	3	..	75	590	590	..	..	..
98	5	..	94	475	475	..	..	..
117	5	..	112	590	590	..	..	..
136	5	..	131	590	590	..	..	..
..	..	..	..	870	219	651	..	..
..	..	..	..	870	219	651	..	..
..	..	..	..	949	225	652	..	72
..	..	..	..	*999	*225	*652	..	121
7,041	5,001	..	2,040	26,825	23,400	37	485	2,903
7,446	4,920	..	2,526	26,730	22,391	37	485	3,817
8,258	4,919	..	3,339	25,557	21,231	37	485	3,804
10,058	5,444	..	4,614	24,966	20,106	37	485	4,338
0	0	..	..	1,790	1,074	658	..	58
0	0	..	..	1,823	1,104	660	..	59
0	0	..	..	1,836	1,104	671	..	61
..	..	..	..	1,839	1,104	674	..	61
588	553	..	35	33,249	1,010	31,372	..	867
588	553	..	35	33,220	520	31,817	..	883
574	539	..	35	33,654	535	31,912	..	1,207
587	552	..	35	34,761	521	32,530	..	1,710

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Poland	2015	37,327	29,961	2,370	..	4,886	108	2
	2016	38,105	29,783	2,386	..	5,747	187	2
	2017	42,850	34,412	2,391	..	5,758	287	2
	2018	43,046	34,314	2,392	..	5,766	562	12
Portugal	2015	19,624	8,048	6,168	..	4,936	447	25
	2016	20,613	7,990	6,960	..	5,125	513	25
	2017	20,933	7,974	7,226	..	5,125	579	29
	2018	21,185	8,080	7,236	..	5,173	667	29
Republic of Moldova	2015	*1,091	473	16	..	1	1	*600
	2016	*1,063	443	16	..	2	2	*600
	2017	*1,077	450	16	..	9	2	*600
	2018	*1,078	425	16	..	34	3	*600
Romania	2015	23,830	11,233	6,730	1,411	3,130	1,326	..
	2016	23,580	11,038	6,734	1,411	3,025	1,372	..
	2017	23,572	11,067	6,691	1,411	3,029	1,374	..
	2018	23,551	11,022	6,700	1,411	3,032	1,386	..
Russian Federation	2015	257,075	179,148	50,998	26,304	101	446	78
	2016	264,730	185,815	51,016	27,189	96	536	78
	2017	267,639	187,701	51,241	27,952	98	574	74
	2018	271,600	190,215	51,333	29,140	161	678	74
Serbia	2015	7,358	4,327	3,022	..	..	9	..
	2016	7,410	4,352	3,030	..	17	11	..
	2017	7,416	4,343	3,038	..	25	10	..
	2018	8,088	4,873	2,936	..	264	*15	..
Slovakia	2015	7,782	2,754	2,522	1,940	3	533	30
	2016	7,742	2,710	2,524	1,940	3	533	32
	2017	7,671	2,645	2,523	1,940	4	528	31
	2018	7,625	2,651	2,528	1,940	4	471	31
Slovenia	2015	3,360	1,133	1,295	688	5	239	..
	2016	3,536	1,318	1,293	688	5	232	..
	2017	3,619	1,332	1,347	688	5	247	..
	2018	3,798	1,514	1,344	688	5	247	..
Spain	2015	114,057	56,350	20,253	7,399	22,947	7,018	*90
	2016	113,252	55,454	20,280	7,399	22,994	7,030	*95
	2017	111,144	53,510	20,279	7,117	23,104	7,039	*95
	2018	111,093	53,063	20,280	7,117	23,460	7,078	*95
Sweden	2015	40,885	8,945	16,329	9,688	5,819	104	..
	2016	41,511	8,689	16,466	9,768	6,435	153	..
	2017	39,798	7,442	16,502	8,999	6,611	244	..
	2018	41,223	8,408	16,431	8,656	7,300	428	..
Switzerland	2015	19,618	1,016	13,815	3,333	60	1,394	..
	2016	20,839	961	14,806	3,333	75	1,664	..
	2017	21,614	946	15,354	3,333	75	1,906	..
	2018	22,061	940	15,542	3,333	75	2,171	..
Ukraine	2015	55,904	35,335	5,883	13,835	428	423	..
	2016	57,335	36,475	6,172	13,835	428	425	..
	2017	52,764	31,492	6,213	13,835	465	759	..
	2018	51,508	29,753	6,243	13,835	476	1,201	..
United Kingdom	2015	96,395	58,316	4,677	9,487	14,305	9,601	9
	2016	97,739	55,437	4,736	9,497	16,125	11,931	13
	2017	109,286	62,767	4,773	9,361	19,585	12,782	18
	2018	108,280	59,278	4,779	9,314	21,770	13,119	20
Oceania	2015	81,257	55,010	14,184	..	4,975	6,074	1,014
	2016	80,064	52,934	14,179	..	5,079	6,858	1,014
	2017	79,587	51,247	14,188	..	5,584	7,553	1,014
	2018	82,182	51,383	14,440	..	6,448	8,873	1,038

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
2,138	2,027	1	110	35,189	27,934	2,369	..	4,886
2,078	1,888	1	189	36,027	27,895	2,385	..	5,747
2,773	2,483	1	289	40,077	31,929	2,390	..	5,758
3,669	3,094	1	574	39,377	31,220	2,391	..	5,766
2,049	1,843	6	200	17,575	6,205	6,162	..	5,208
2,043	1,781	6	256	18,570	6,209	6,954	..	5,407
2,084	1,769	6	309	18,849	6,205	7,220	..	5,424
2,236	1,872	6	358	18,949	6,208	7,230	..	5,511
143	143	..	..	*948	330	16	..	*602
113	113	..	..	*950	330	16	..	*604
124	120	..	4	*953	330	16	..	*607
120	95	..	25	*958	330	16	..	*612
3,333	2,338	111	884	20,497	8,895	6,619	1,411	3,572
3,164	2,151	90	923	20,416	8,887	6,644	1,411	3,474
3,022	2,159	81	782	20,550	8,908	6,610	1,411	3,621
2,985	2,150	83	752	20,566	8,872	6,617	1,411	3,666
24,852	24,375	477	..	232,223	154,773	50,521	26,304	625
24,471	24,021	450	..	240,259	161,794	50,566	27,189	710
25,250	24,789	461	..	242,389	162,912	50,779	27,952	746
25,623	25,161	462	..	245,977	165,054	50,871	29,140	913
77	77	..	..	7,281	4,250	3,022	..	9
129	129	..	..	7,281	4,223	3,030	..	28
120	120	..	..	7,296	4,223	3,038	..	35
140	140	..	..	7,948	4,733	2,936	..	279
1,124	635	27	462	6,658	2,119	2,495	1,940	104
1,099	604	31	464	6,643	2,106	2,493	1,940	104
1,076	633	30	413	6,595	2,012	2,493	1,940	150
1,107	769	32	306	6,518	1,882	2,496	1,940	200
395	47	116	232	2,965	1,086	1,179	688	12
388	46	116	226	3,148	1,272	1,177	688	11
402	46	116	240	3,217	1,286	1,231	688	12
403	47	116	240	3,395	1,467	1,228	688	12
*7,304	*7,000	*200	*104	106,753	49,350	20,053	7,399	29,951
*7,304	*7,000	*200	*104	105,948	48,454	20,080	7,399	30,015
*7,304	*7,000	*200	*104	103,840	46,510	20,079	7,117	30,134
*7,355	*7,000	*200	*155	103,738	46,063	20,080	7,117	30,478
*1,202	*1,194	8	..	39,683	7,751	16,321	9,688	5,923
*1,206	*1,194	12	..	40,305	7,495	16,454	9,768	6,588
1,285	1,267	18	..	38,513	6,175	16,484	8,999	6,855
1,448	1,430	18	..	39,775	6,978	16,413	8,656	7,728
2,661	756	511	1,394	16,957	260	13,304	3,333	60
3,103	744	695	1,664	17,736	217	14,111	3,333	75
3,328	689	733	1,906	18,286	257	14,621	3,333	75
3,605	683	751	2,171	18,456	257	14,791	3,333	75
2,759	2,751	5	3	53,145	32,584	5,878	13,835	848
3,469	3,462	5	2	53,866	33,013	6,167	13,835	851
2,265	2,227	7	31	50,499	29,265	6,206	13,835	1,193
2,139	2,091	5	43	49,369	27,662	6,238	13,835	1,634
17,459	6,355	320	10,784	78,936	51,961	4,357	9,487	13,131
20,168	6,707	376	13,085	77,571	48,730	4,360	9,497	14,984
26,306	12,710	412	13,184	82,980	50,057	4,361	9,361	19,201
26,668	13,223	413	13,032	81,612	46,055	4,366	9,314	21,877
12,077	6,002	105	5,969	69,181	49,008	14,078	..	6,094
12,357	5,764	105	6,487	67,707	47,170	14,073	..	6,464
12,829	5,676	99	7,055	66,758	45,572	14,089	..	7,097
13,503	5,984	99	7,420	68,680	45,399	14,342	..	8,939

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
American Samoa	2015	46	44	..	..	..	2	..
	2016	50	46	..	..	..	4	..
	2017	50	46	..	..	..	4	..
	2018	*51	*46	..	..	..	5	..
Australia	2015	68,435	49,983	8,271	..	4,234	5,946	1
	2016	67,265	47,977	8,271	..	4,327	6,689	1
	2017	66,761	46,319	8,271	..	4,816	7,354	1
	2018	69,274	46,445	8,523	..	5,679	8,626	1
Cook Islands	2015	*14	*11	..	..	..	3	..
	2016	*15	*11	..	..	..	4	..
	2017	*15	*11	..	..	..	4	..
	2018	*17	*11	..	..	..	6	..
Fiji	2015	304	156	135	..	10	3	..
	2016	328	*172	130	..	21	5	..
	2017	*360	*194	138	..	*21	7	..
	2018	*363	*194	138	..	*21	10	..
French Polynesia	2015	*252	*177	47	..	..	28	..
	2016	*263	*185	47	..	..	32	..
	2017	*267	*185	47	..	..	35	..
	2018	*268	*186	47	..	0	35	..
Guam	2015	498	472	..	..	0	26	..
	2016	498	472	..	..	0	26	..
	2017	446	420	..	..	0	26	..
	2018	446	420	..	..	0	26	..
Kiribati	2015	*10	*8	..	..	..	2	..
	2016	*11	*8	..	..	..	3	..
	2017	*11	*8	..	..	..	3	..
	2018	*11	*8	..	..	..	3	..
Marshall Islands	2015	37	36	..	..	..	1	..
	2016	*38	*36	..	..	..	2	..
	2017	*39	*37	..	..	..	2	..
	2018	*39	*37	..	..	..	2	..
Micronesia (Fed. States of)	2015	*34	*32	2	..	..	1	..
	2016	*34	*32	2	..	..	1	..
	2017	*34	*32	*2	..	..	1	..
	2018	*36	*32	*2	..	1	2	..
Nauru	2015	*6	*6	..	..	..	0	..
	2016	*7	*6	..	..	..	1	..
	2017	*8	*7	..	..	..	1	..
	2018	*14	*13	..	..	..	1	..
New Caledonia	2015	998	875	78	..	38	7	..
	2016	1,001	875	78	..	38	10	..
	2017	*1,020	*875	78	..	54	13	..
	2018	*1,040	*875	78	..	54	*33	..
New Zealand	2015	9,448	2,384	5,381	..	689	37	957
	2016	9,290	2,210	5,381	..	689	53	957
	2017	9,306	2,209	5,381	..	689	70	957
	2018	9,353	2,212	5,381	..	689	90	981
Niue	2015	*2	*2	..	..	..	0	..
	2016	*2	*2	..	..	..	0	..
	2017	*2	*2	..	..	..	0	..
	2018	*2	*2	..	..	..	0	..
Northern Mariana Islands	2015	*95	*95	..	..	..	..	..
	2016	95	95	..	..	..	..	..
	2017	*95	*95	..	..	..	..	..
	2018	*95	*95	..	..	..	..	..

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	46	44	..	..	2
..	..	..	..	50	46	..	..	4
..	..	..	..	50	46	..	..	4
..	..	..	..	*51	*46	..	..	5
11,073	5,221	..	5,852	57,362	44,762	8,271	..	4,329
11,336	4,983	..	6,353	55,929	42,994	8,271	..	4,664
11,785	4,883	..	6,902	54,976	41,436	8,271	..	5,269
12,433	5,191	..	7,242	56,841	41,254	8,523	..	7,064
..	..	..	..	*14	*11	..	..	3
..	..	..	..	*15	*11	..	..	4
..	..	..	..	*15	*11	..	..	4
..	..	..	..	*17	*11	..	..	6
*42	*42	..	..	263	114	135	..	14
*42	*42	..	..	286	*130	130	..	26
*54	*54	..	..	*306	*140	138	..	*28
54	54	..	..	*309	*140	138	..	*31
..	..	..	..	*252	*177	47	..	28
..	..	..	..	*263	*185	47	..	32
..	..	..	..	*267	*185	47	..	35
..	..	..	..	*268	*186	47	..	35
..	..	..	..	498	472	..	..	26
..	..	..	..	498	472	..	..	26
..	..	..	..	446	420	..	..	26
..	..	..	..	446	420	..	..	26
*1	*1	..	..	*9	*7	..	..	2
*1	*1	..	..	*10	*7	..	..	3
*1	*1	..	..	*10	*7	..	..	3
*1	*1	..	..	*10	*7	..	..	3
..	..	..	..	37	36	..	..	1
..	..	..	..	*38	*36	..	..	2
..	..	..	..	*39	*37	..	..	2
..	..	..	..	*39	*37	..	..	2
..	..	..	..	*34	*32	2	..	1
..	..	..	..	*34	*32	2	..	1
..	..	..	..	*34	*32	*2	..	1
..	..	..	..	*36	*32	*2	..	3
..	..	..	..	*6	*6	..	..	0
..	..	..	..	*7	*6	..	..	1
..	..	..	..	*8	*7	..	..	1
..	..	..	..	*14	*13	..	..	1
*60	*60	..	0	937	815	78	..	44
*61	*60	..	1	940	815	78	..	46
*63	*60	..	3	*957	*815	78	..	64
*68	*60	..	*8	*972	*815	78	..	79
285	221	3	61	9,163	2,163	5,378	..	1,622
301	221	3	77	8,989	1,989	5,378	..	1,622
318	221	3	94	8,988	1,988	5,378	..	1,622
338	221	3	114	9,015	1,991	5,378	..	1,646
..	..	..	..	*2	*2	..	..	0
..	..	..	..	*2	*2	..	..	0
..	..	..	..	*2	*2	..	..	0
..	..	..	..	*2	*2	..	..	0
..	..	..	..	*95	*95	..	..	..
..	..	..	..	95	95	..	..	..
..	..	..	..	*95	*95	..	..	..
..	..	..	..	*95	*95	..	..	..

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Palau	2015	31	30	..	..	..	1	..
	2016	40	39	..	..	..	*1	..
	2017	*40	*39	..	..	..	*1	..
	2018	*40	*39	..	..	..	*2	..
Papua New Guinea	2015	*905	*590	*258	..	..	1	56
	2016	*971	*656	*258	..	..	1	56
	2017	*971	*656	*258	..	..	1	56
	2018	*971	*656	*258	..	..	1	56
Samoa	2015	*44	*23	11	..	1	10	..
	2016	*52	*23	*11	..	1	17	..
	2017	*53	*23	*12	..	1	17	..
	2018	*54	*23	*12	..	1	*18	..
Solomon Islands	2015	*37	*36	0	..	..	1	..
	2016	*38	*36	0	..	..	2	..
	2017	*39	*36	0	..	..	3	..
	2018	*39	*36	0	..	..	3	..
Tonga	2015	*17	*15	..	..	0	*2	..
	2016	20	17	..	..	0	2	..
	2017	24	18	..	..	0	6	..
	2018	24	18	..	..	0	6	..
Tuvalu	2015	*5	*3	..	..	..	2	..
	2016	*5	*3	..	..	..	2	..
	2017	*5	*3	..	..	..	2	..
	2018	5	3	..	..	..	2	..
Vanuatu	2015	30	25	1	..	4	0	..
	2016	32	25	1	..	4	1	..
	2017	*33	*25	1	..	3	3	..
	2018	*33	*25	1	..	3	3	..
Wallis and Futuna Is.	2015	9	9	0	..	..	0	..
	2016	*9	*9	0	..	..	0	..
	2017	*9	*9	0	..	..	0	..
	2018	*9	*9	0	..	..	0	..

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
*2	*2	..	..	29	28	..	..	1
*2	*2	..	..	38	37	..	..	*1
*2	*2	..	..	*38	*37	..	..	*1
*2	*2	..	..	*38	*37	..	..	*2
*608	*450	*102	56	*296	*140	*155	..	1
*608	*450	*102	56	*363	*206	*155	..	1
*602	*450	*96	56	*369	*206	*162	..	1
*602	*450	*96	56	*369	*206	*162	..	1
0	..	..	0	*44	*23	11	..	11
0	..	..	0	*52	*23	*11	..	18
0	..	..	0	*53	*23	*12	..	18
0	..	..	0	*54	*23	*12	..	*19
*5	*5	..	..	*32	*31	0	..	1
*5	*5	..	..	*33	*31	0	..	2
*5	*5	..	..	*34	*31	0	..	3
*5	*5	..	..	*34	*31	0	..	3
..	..	..	..	*17	*15	..	..	*2
..	..	..	..	20	17	..	..	2
..	..	..	..	24	18	..	..	6
..	..	..	..	24	18	..	..	6
..	..	..	..	*5	*3	..	..	2
..	..	..	..	*5	*3	..	..	2
..	..	..	..	*5	*3	..	..	2
..	..	..	..	5	3	..	..	2
..	..	..	..	30	25	1	..	4
..	..	..	..	32	25	1	..	5
..	..	..	..	*33	*25	1	..	6
..	..	..	..	*33	*25	1	..	6
..	..	..	..	9	9	0	..	0
..	..	..	..	*9	*9	0	..	0
..	..	..	..	*9	*9	0	..	0
..	..	..	..	*9	*9	0	..	0

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Table Notes

Data on utilization are derived by dividing the data on electricity production shown in Table 32 by the net installed capacity shown in Table 30, and then by the total number of hours in a year to yield a percentage of theoretical maximal utilization.

For this table, **Other** under total producers refers to geothermal, tide, wave, marine and other non-specified sources. **Other** under autoproducers refers to nuclear (if any), wind, solar, tide, wave, marine and other non-specified sources. **Other** under main activity producers refers to wind, solar, tide, wave, marine and other non-specified sources.

For Austria data are given in gross maximum capacity.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description /classification, and xvi to xvii for the descriptions of relevant flows.

Figure 74: Utilization of installed electric generating capacity by source and region, 2018

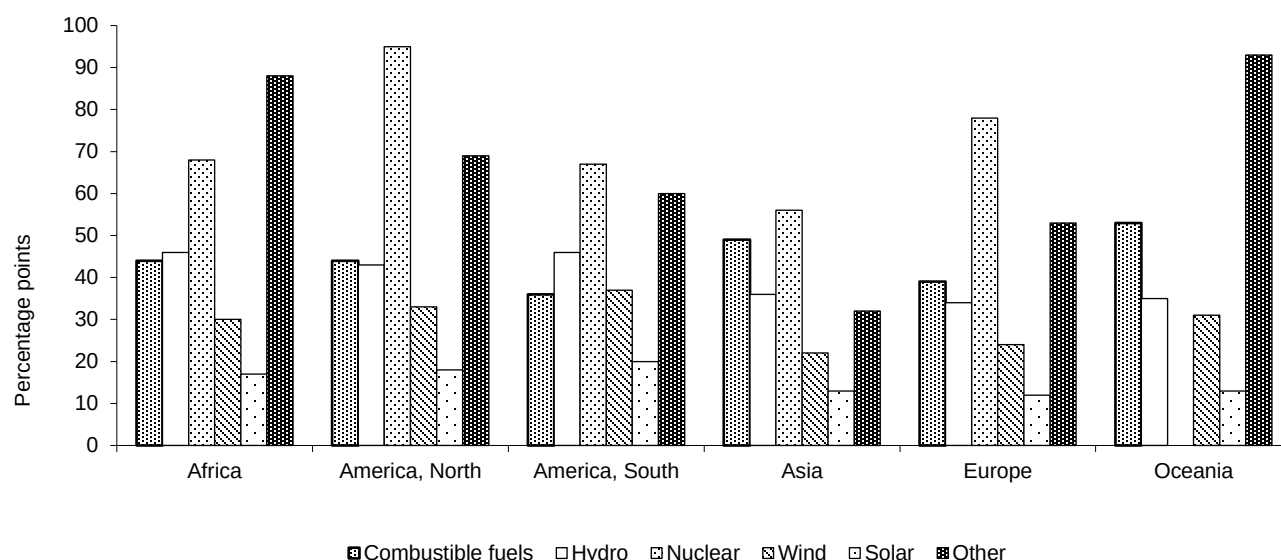


Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
World	2015	44	46	37	75	23	13	63
	2016	42	45	38	74	23	12	60
	2017	42	45	37	75	25	13	58
	2018	42	46	38	76	26	13	44
Africa	2015	51	52	50	75	21	16	79
	2016	48	49	47	98	25	14	75
	2017	46	46	45	93	28	17	79
	2018	44	44	46	68	30	17	88
Algeria	2015	46	46	7	..	22	17	..
	2016	43	43	7	..	22	1	..
	2017	45	46	26	..	78	2	..
	2018	42	42	56	..	96	2	..
Angola	2015	44	48	41	..	..	16	..
	2016	41	40	42	..	..	16	..
	2017	28	17	37	..	..	16	..
	2018	27	15	37	..	..	16	..
Benin	2015	10	12	0	..	..	11	..
	2016	8	10	1	..	..	11	..
	2017	10	12	0	..	..	11	..
	2018	6	7	..	..	..	11	..
Botswana	2015	55	55	..	..	..	11	..
	2016	49	49	..	..	..	18	..
	2017	46	46	..	..	..	18	..
	2018	45	45	..	..	..	44	..
Burkina Faso	2015	35	35	33	..	..	..	..
	2016	34	32	50	..	..	..	..
	2017	38	37	46	..	..	27	..
	2018	33	34	33	..	..	26	..
Burundi	2015	31	36	31	..	..	18	..
	2016	32	39	32	..	..	18	..
	2017	31	56	24	..	..	18	..
	2018	40	71	31	..	..	18	..
Cabo Verde	2015	30	30	..	..	35	9	..
	2016	30	30	..	..	34	9	..
	2017	28	28	..	..	32	10	..
	2018	27	27	..	..	34	13	..
Cameroon	2015	48	35	68	..	..	11	..
	2016	42	26	68	..	..	11	..
	2017	45	27	75	..	..	15	..
	2018	59	45	78	..	..	11	..
Central African Rep.	2015	37	1	64	..	..	16	..
	2016	37	1	65	..	..	16	..
	2017	37	1	66	..	..	16	..
	2018	38	1	67	..	..	16	..
Chad	2015	30	30	..	..	..	..	..
	2016	31	31	..	..	..	..	..
	2017	31	31	..	..	..	..	..
	2018	31	31	..	..	..	..	..
Comoros	2015	23	23	..	..	..	..	..
	2016	26	26	..	..	..	..	..
	2017	30	30	..	..	..	..	..
	2018	33	33	..	..	..	..	..
Congo	2015	53	49	60	..	..	25	..
	2016	56	53	62	..	..	25	..
	2017	65	66	64	..	..	20	..
	2018	66	66	66	..	..	20	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
37	42	33	16	44	47	38	75	21
38	44	29	16	43	45	38	74	21
40	48	27	16	42	45	38	75	21
40	48	29	15	43	46	38	76	21
24	26	12	14	54	55	51	75	38
29	32	9	16	51	51	48	98	37
25	26	15	21	48	49	46	93	36
26	26	15	21	47	46	47	68	35
11	11	..	..	57	58	7	..	18
13	13	..	..	51	53	7	..	2
14	14	..	..	53	55	26	..	4
10	10	..	..	55	56	56	..	5
35	35	..	..	45	50	41	..	16
31	31	..	..	42	42	42	..	16
20	20	..	..	28	17	37	..	16
19	19	..	..	27	14	37	..	16
28	28	..	..	7	9	0	..	11
24	24	..	..	6	7	1	..	11
25	25	..	..	8	10	0	..	11
29	29	..	..	3	4	..	..	11
..	..	..	..	56	56	..	..	11
..	..	..	..	51	51	..	..	18
..	..	..	..	47	47	..	..	18
..	..	..	..	45	45	..	..	44
..	..	..	..	35	35	33	..	..
..	..	..	..	34	32	50	..	..
..	..	..	..	38	37	46	..	27
..	..	..	..	33	34	33	..	26
34	34	..	..	31	36	31	..	18
40	40	..	..	32	39	32	..	18
38	38	..	..	31	60	24	..	18
23	23	..	..	41	81	31	..	18
15	15	..	..	30	30	..	..	29
14	14	..	..	30	30	..	..	29
17	17	..	..	28	28	..	..	27
18	18	..	..	27	27	..	..	29
57	57	..	..	43	8	68	..	11
44	44	..	..	41	6	68	..	11
48	48	..	..	44	5	75	..	15
58	58	..	..	60	13	78	..	11
..	..	..	..	37	1	64	..	16
..	..	..	..	37	1	65	..	16
..	..	..	..	37	1	66	..	16
..	..	..	..	38	1	67	..	16
..	..	..	..	30	30	..	..	..
..	..	..	..	31	31	..	..	..
..	..	..	..	31	31	..	..	..
..	..	..	..	31	31	..	..	..
..	..	..	..	23	23	..	..	..
..	..	..	..	26	26	..	..	..
..	..	..	..	30	30	..	..	..
..	..	..	..	33	33	..	..	..
55	55	..	..	50	..	60	..	25
60	60	..	..	51	..	62	..	25
74	74	..	..	54	..	64	..	20
74	74	..	..	55	..	66	..	20

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Côte d'Ivoire	2015	52	64	26	..	..	..	..
	2016	61	76	29	..	..	..	..
	2017	53	70	27	..	..	..	..
	2018	53	62	38	..	..	..	..
Dem. Rep. of the Congo	2015	40	4	42	..	..	..	..
	2016	39	3	41	..	..	..	..
	2017	35	3	36	..	..	..	..
	2018	43	72	42	..	..	16	..
Djibouti	2015	16	16	..	..	..	..	..
	2016	8	8	..	..	..	..	..
	2017	5	5	..	..	..	..	..
	2018	5	5	..	..	..	..	..
Egypt	2015	57	58	55	..	28	21	..
	2016	55	56	55	..	31	14	..
	2017	49	49	52	..	34	47	..
	2018	42	42	51	..	26	32	..
Equatorial Guinea	2015	28	33	18	..	..	..	..
	2016	28	33	18	..	..	..	..
	2017	18	33	7	..	..	..	..
	2018	15	28	7	..	..	..	..
Eritrea	2015	25	25	..	..	23	23	..
	2016	26	26	..	..	23	23	..
	2017	21	21	..	..	23	13	..
	2018	25	25	..	..	23	25	..
Eswatini	2015	30	26	36	..	..	..	..
	2016	24	26	19	..	..	..	..
	2017	25	29	18	..	..	13	..
	2018	31	30	33	..	..	13	..
Ethiopia	2015	49	3	57	..	27	21	..
	2016	34	5	35	..	28	17	..
	2017	36	4	38	..	19	21	..
	2018	36	5	39	..	19	21	..
Gabon	2015	48	41	62	..	..	23	..
	2016	51	45	64	..	..	23	..
	2017	49	43	61	..	..	23	..
	2018	40	42	36	..	..	23	..
Gambia	2015	27	28	..	..	1	18	..
	2016	29	29	..	..	1	18	..
	2017	30	30	..	..	1	18	..
	2018	29	30	..	..	1	18	..
Ghana	2015	34	29	42	..	..	2	..
	2016	38	36	40	..	..	14	..
	2017	35	33	41	..	..	14	..
	2018	37	34	43	..	..	9	..
Guinea	2015	21	12	27	..	..	..	..
	2016	31	26	34	..	..	..	..
	2017	31	23	38	..	..	..	..
	2018	36	34	37	..	..	..	..
Guinea-Bissau	2015	29	29	..	..	..	..	..
	2016	31	34	..	..	..	15	..
	2017	31	34	..	..	..	15	..
	2018	31	35	..	..	..	15	..
Kenya	2015	48	20	50	..	26	..	83
	2016	51	21	57	..	25	..	79
	2017	51	38	38	..	27	..	83
	2018	48	22	55	..	13	..	93

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
52	52	..	..	52	65	26	..	..
86	86	..	..	61	76	29	..	..
86	86	..	..	52	70	27	..	..
30	30	..	..	53	63	38	..	..
1	14	0	..	49	1	51	..	..
0	11	0	..	49	1	52	..	..
4	3	4	..	42	2	42	..	..
25	90	8	..	48	2	48	..	16
..	..	..	..	16	16	..	..	..
..	..	..	..	8	8	..	..	..
..	..	..	..	5	5	..	..	..
..	..	..	..	5	5	..	..	..
91	91	..	..	57	58	55	..	27
93	93	..	..	55	55	55	..	29
93	93	..	..	48	48	52	..	36
78	78	..	..	41	41	51	..	27
..	..	..	..	28	33	18	..	..
..	..	..	..	28	33	18	..	..
..	..	..	..	18	33	7	..	..
..	..	..	..	15	28	7	..	..
13	13	..	..	26	26	..	..	23
13	13	..	..	27	27	..	..	23
16	16	..	..	21	21	..	..	13
16	16	..	..	25	26	..	..	24
28	29	..	..	34	0	38	..	..
28	29	..	..	18	0	20	..	..
31	32	..	13	17	..	19	..	..
31	33	..	13	30	..	34	..	..
..	..	..	..	49	0	57	..	26
..	..	..	..	34	0	35	..	27
..	..	..	..	35	0	38	..	18
..	..	..	..	36	1	39	..	18
35	36	..	23	49	42	62	..	..
36	37	..	23	53	47	64	..	..
37	38	29	23	51	44	62	..	..
22	22	29	23	42	48	36	..	..
12	12	..	..	34	35	..	..	12
12	12	..	..	35	36	..	..	12
12	12	..	..	37	38	..	..	12
12	12	..	..	36	37	..	..	12
10	10	..	..	36	31	42	..	2
10	10	..	..	39	39	40	..	14
10	10	..	..	37	34	41	..	14
10	10	..	..	38	36	43	..	9
20	20	..	..	22	6	27	..	..
36	36	..	..	29	5	34	..	..
29	29	..	..	32	9	38	..	..
48	48	..	..	32	14	37	..	..
33	33	..	..	28	28	..	..	..
40	40	..	..	29	32	..	..	15
39	39	..	..	29	33	..	..	15
41	41	..	..	29	33	..	..	15
..	..	..	..	48	20	50	..	81
..	..	..	..	51	21	57	..	77
..	..	..	..	51	38	38	..	81
76	76	..	..	48	21	55	..	65

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Lesotho	2015	76	..	76	..	..	..	..
	2016	72	9	72	..	..	..	..
	2017	76	14	77	..	..	..	..
	2018	79	14	80	..	..	..	..
Liberia	2015	39	38	50	..	..	..	..
	2016	47	47	50	..	..	..	..
	2017	45	45	51	..	..	17	..
	2018	26	36	15	..	..	15	..
Libya	2015	45	45	..	..	..	18	..
	2016	35	35	..	..	..	18	..
	2017	37	37	..	..	..	18	..
	2018	37	37	..	..	..	18	..
Madagascar	2015	36	23	65	..	..	11	..
	2016	41	31	64	..	..	1	..
	2017	34	27	54	..	..	1	..
	2018	36	25	67	..	..	1	..
Malawi	2015	43	10	63	..	..	..	..
	2016	43	10	63	..	..	..	..
	2017	40	10	58	..	..	..	..
	2018	39	10	53	..	..	..	..
Mali	2015	30	38	24	..	..	17	..
	2016	29	35	24	..	..	22	..
	2017	31	39	23	..	..	16	..
	2018	33	43	23	..	..	17	..
Mauritania	2015	25	24	..	..	35	19	..
	2016	26	25	..	..	37	19	..
	2017	27	28	..	..	34	13	..
	2018	25	26	..	..	35	19	..
Mauritius	2015	43	46	23	..	24	16	..
	2016	41	44	19	..	19	13	..
	2017	43	46	17	..	16	15	..
	2018	41	46	24	..	16	8	..
Morocco	2015	31	33	15	..	36	0	..
	2016	32	34	11	..	38	28	..
	2017	31	34	10	..	34	23	..
	2018	33	35	13	..	38	42	..
Mozambique	2015	89	71	93	..	..	10	..
	2016	86	86	86	..	..	14	..
	2017	71	81	69	..	..	2	..
	2018	69	67	71	..	..	1	..
Namibia	2015	35	3	51	..	30	21	..
	2016	32	5	44	..	30	18	..
	2017	36	5	52	..	11	18	..
	2018	27	2	38	..	40	23	..
Niger	2015	22	22	..	..	..	19	..
	2016	18	17	..	..	..	19	..
	2017	22	22	..	..	..	19	..
	2018	18	18	..	..	..	19	..
Nigeria	2015	35	36	33	..	..	25	..
	2016	31	28	47	..	..	26	..
	2017	31	30	37	..	..	27	..
	2018	34	34	34	..	..	27	..
Rwanda	2015	35	32	40	..	..	18	..
	2016	38	39	38	..	..	19	..
	2017	37	39	37	..	..	15	..
	2018	38	40	39	..	..	17	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	76	..	76	..	..
..	..	..	..	72	9	72	..	..
..	..	..	..	76	14	77	..	..
..	..	..	..	79	14	80	..	..
33	33	..	..	52	53	50	..	..
43	43	..	..	54	55	50	..	..
46	46	..	..	45	45	51	..	17
34	34	..	..	21	41	15	..	15
..	..	..	..	45	45	..	..	18
..	..	..	..	35	35	..	..	18
..	..	..	..	37	37	..	..	18
..	..	..	..	37	37	..	..	18
61	61	..	..	34	20	65	..	1
61	61	..	..	39	27	64	..	1
51	51	..	..	32	24	54	..	1
52	52	..	..	34	22	67	..	1
10	10	11	..	63	63	63	..	..
10	10	11	..	64	63	64	..	..
10	10	11	..	59	63	59	..	..
10	10	11	..	53	63	53	..	..
66	66	..	..	25	27	24	..	17
40	40	..	..	27	32	24	..	22
43	43	..	..	28	36	23	..	16
52	52	..	..	28	36	23	..	17
45	45	..	..	21	19	..	..	29
51	51	..	..	20	19	..	..	28
49	49	..	..	23	23	..	..	22
46	46	..	..	22	21	..	..	23
65	69	..	16	29	30	23	..	24
60	65	..	14	28	29	19	..	31
65	72	..	15	28	30	17	..	24
56	69	..	9	30	31	24	..	22
5	0	..	..	42	53	15	..	30
5	..	..	..	43	54	11	..	37
5	..	..	..	41	53	10	..	32
5	..	..	..	44	54	13	..	38
40	25	60	10	90	74	93	..	..
28	25	61	14	86	90	86	..	..
29	16	38	2	73	86	71	..	..
1	..	2	1	73	72	74	..	..
..	..	..	..	35	3	51	..	21
..	..	..	..	32	5	44	..	18
..	..	..	..	36	5	52	..	17
..	..	..	..	27	2	38	..	24
5	3	..	19	26	26	..	..	..
5	3	..	19	21	21	..	..	..
5	2	..	19	27	27	..	..	..
7	2	..	19	21	21	..	..	..
22	22	33	25	41	44	33	..	..
20	19	48	26	35	32	47	..	..
21	21	45	27	35	34	37	..	..
24	23	38	27	37	38	34	..	..
23	23	..	..	35	32	40	..	18
23	23	..	..	38	40	38	..	19
23	23	..	..	37	39	37	..	15
23	23	..	..	38	41	39	..	17

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Sao Tome and Principe	2015	36	36	38	..	..	14	..
	2016	36	36	38	..	..	14	..
	2017	36	37	34	..	..	14	..
	2018	36	37	29	..	..	14	..
Senegal	2015	49	52	..	..	..	2	..
	2016	52	55	..	..	..	3	..
	2017	50	55	..	..	..	11	..
	2018	44	49	..	..	..	6	..
Seychelles	2015	45	47	..	..	13	34	..
	2016	41	43	..	..	13	13	..
	2017	38	39	..	..	11	11	..
	2018	38	40	..	..	14	11	..
Sierra Leone	2015	22	10	38	..	..	17	..
	2016	25	12	42	..	..	16	..
	2017	25	12	42	..	..	17	..
	2018	14	12	16	..	..	15	..
Somalia	2015	50	50	..	..	..	..	..
	2016	50	50	..	..	..	..	..
	2017	50	50	..	..	..	..	..
	2018	50	50	..	..	..	..	..
South Africa	2015	60	64	57	75	12	17	..
	2016	58	61	61	98	18	15	..
	2017	55	57	80	93	25	18	..
	2018	55	57	85	68	32	16	..
South Sudan	2015	79	82	..	..	..	16	..
	2016	61	63	..	..	..	16	..
	2017	47	51	..	..	..	4	..
	2018	51	55	..	..	..	4	..
St. Helena and Depend.	2015	13	12	..	..	14	11	..
	2016	12	13	..	..	11	15	..
	2017	12	13	..	..	8	11	..
	2018	11	12	..	..	11	11	..
Sudan	2015	45	32	60	..	..	..	..
	2016	47	38	58	..	..	..	..
	2017	47	36	61	..	..	..	..
	2018	47	38	58	..	..	..	..
Togo	2015	22	27	10	..	..	..	..
	2016	51	54	43	..	..	..	..
	2017	35	35	35	..	..	..	..
	2018	30	28	34	..	..	11	..
Tunisia	2015	41	42	13	..	21	19	..
	2016	41	42	8	..	23	19	..
	2017	41	42	3	..	21	31	..
	2018	41	43	3	..	22	14	..
Uganda	2015	44	17	50	..	..	..	..
	2016	46	17	54	..	..	4	..
	2017	48	24	55	..	..	13	..
	2018	47	23	55	..	..	9	..
United Rep. of Tanzania	2015	56	66	42	..	..	13	..
	2016	59	68	48	..	..	20	..
	2017	59	67	48	..	..	20	..
	2018	52	55	45	..	..	40	..
Zambia	2015	64	33	66	..	..	..	..
	2016	47	17	53	..	..	..	..
	2017	56	46	58	..	..	..	..
	2018	64	81	60	..	..	10	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	36	36	38	..	14
..	..	..	..	36	36	38	..	14
..	..	..	..	36	37	34	..	14
..	..	..	..	36	37	29	..	14
22	24	..	1	70	70	..	..	..
26	28	..	1	72	72	..	..	..
24	28	..	9	71	71	..	..	..
26	33	..	5	57	57	..	..	..
35	35	..	..	49	51	..	..	15
35	35	..	..	43	46	..	..	13
35	35	..	..	38	41	..	..	11
35	35	..	..	39	41	..	..	13
39	39	..	..	22	10	38	..	17
39	39	..	..	25	12	42	..	16
39	39	..	..	25	12	42	..	17
39	39	..	..	13	12	16	..	15
..	..	..	..	50	50	..	..	..
..	..	..	..	50	50	..	..	..
..	..	..	..	50	50	..	..	..
..	..	..	..	50	50	..	..	..
31	60	32	14	65	65	59	75	30
42	70	26	16	62	60	63	98	38
32	54	26	21	59	57	85	93	39
35	63	14	22	58	57	92	68	78
92	94	..	11	65	70	..	..	27
72	73	..	11	50	54	..	..	25
11	11	..	23	64	72	..	..	2
12	11	..	23	68	77	..	..	2
..	..	..	..	13	12	..	..	13
..	..	..	..	12	13	..	..	12
..	..	..	..	12	13	..	..	9
..	..	..	..	11	12	..	..	11
6	7	..	..	48	35	60	..	..
6	7	..	..	49	42	58	..	..
7	7	..	..	50	39	61	..	..
6	7	..	..	50	42	58	..	..
17	17	..	..	23	28	10	..	..
19	19	..	..	52	55	43	..	..
19	19	..	..	36	36	35	..	..
7	6	..	11	31	29	34	..	..
50	42	..	19	41	42	13	..	21
57	51	..	19	40	42	8	..	23
55	47	..	31	40	42	3	..	21
49	58	..	14	41	42	3	..	22
42	31	54	..	44	8	50	..	..
42	31	52	..	47	7	54	..	4
29	22	37	..	52	26	58	..	14
35	25	45	..	50	22	57	..	9
5	..	..	13	57	68	42	..	..
10	..	..	20	60	70	48	..	..
8	..	..	20	61	70	48	..	..
5	..	..	40	59	68	45	..	..
..	..	..	..	64	33	66	..	..
..	..	..	..	47	17	53	..	..
..	..	..	..	56	46	58	..	..
..	..	..	..	64	81	60	..	10

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Zimbabwe	2015	55	42	74	..	..	..	..
	2016	40	38	44	..	..	..	..
	2017	43	32	60	..	..	..	..
	2018	46	39	55	..	..	..	..
America, North	2015	47	45	40	94	30	16	73
	2016	46	44	41	94	32	17	73
	2017	45	42	44	94	33	19	62
	2018	46	44	43	95	33	18	69
Anguilla	2015	32	33	..	..	..	2	..
	2016	35	36	..	..	..	5	..
	2017	38	38	..	..	..	7	..
	2018	41	41	..	..	..	7	..
Antigua and Barbuda	2015	34	35	..	..	..	13	..
	2016	34	35	..	..	..	17	..
	2017	34	35	..	..	..	17	..
	2018	45	49	..	..	..	16	..
Aruba	2015	37	35	..	..	53	..	..
	2016	38	35	..	..	55	..	..
	2017	39	37	..	..	55	..	..
	2018	39	36	..	..	67	..	..
Bahamas	2015	40	40	..	..	..	..	..
	2016	39	39	..	..	..	..	..
	2017	39	39	..	..	..	..	..
	2018	45	45	..	..	..	..	..
Barbados	2015	46	47	..	..	..	18	..
	2016	45	48	..	..	..	16	..
	2017	43	44	..	..	..	23	..
	2018	47	49	..	..	..	20	..
Belize	2015	31	21	49	..	..	..	..
	2016	32	19	58	..	..	..	..
	2017	44	37	60	..	..	..	..
	2018	45	40	56	..	..	..	..
Bermuda	2015	45	45	..	..	..	..	..
	2016	44	44	..	..	..	..	..
	2017	45	45	..	..	..	..	..
	2018	42	43	..	..	..	..	..
Bonaire, St Eustatius, Saba	2015	54	61	..	..	42	..	..
	2016	47	54	..	..	39	27	..
	2017	48	58	..	..	36	27	..
	2018	49	54	..	..	43	27	..
British Virgin Islands	2015	53	54	..	..	24	11	..
	2016	54	55	..	..	24	11	..
	2017	54	55	..	..	23	9	..
	2018	51	52	..	..	23	11	..
Canada	2015	52	45	55	83	27	10	25
	2016	52	43	55	83	29	17	33
	2017	51	40	56	82	29	14	25
	2018	50	40	54	82	30	14	26
Cayman Islands	2015	55	55	..	..	..	..	..
	2016	47	47	..	..	..	..	..
	2017	48	48	..	..	..	..	..
	2018	47	47	..	..	..	..	..
Costa Rica	2015	34	5	43	..	22	29	64
	2016	32	7	39	..	19	2	74
	2017	36	4	43	..	39	12	62
	2018	36	6	40	..	50	14	53

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
14	14	..	..	56	43	74	..	..
70	70	..	..	39	36	44	..	..
42	42	..	..	43	32	60	..	..
52	52	..	..	46	39	55	..	..
49	57	71	18	47	44	39	94	30
45	54	62	17	46	43	41	94	31
45	56	64	17	45	41	43	94	32
44	56	63	16	46	43	42	95	31
..	..	..	..	32	33	..	..	2
..	..	..	..	35	36	..	..	5
..	..	..	..	38	38	..	..	7
..	..	..	..	41	41	..	..	7
11	11	..	..	34	35	..	..	13
11	11	..	..	35	36	..	..	17
11	11	..	..	34	35	..	..	17
11	11	..	..	46	49	..	..	16
..	..	..	..	37	35	..	..	53
..	..	..	..	38	35	..	..	55
..	..	..	..	39	37	..	..	55
..	..	..	..	39	36	..	..	67
22	22	..	..	41	41	..	..	..
22	22	..	..	40	40	..	..	..
22	22	..	..	41	41	..	..	..
23	23	..	..	47	47	..	..	..
20	20	..	..	47	48	..	..	18
20	20	..	..	46	49	..	..	16
20	20	..	..	43	45	..	..	23
20	20	..	..	48	51	..	..	20
54	54	..	..	25	4	49	..	..
44	44	..	..	29	4	58	..	..
83	83	..	..	29	6	60	..	..
87	87	..	..	29	10	56	..	..
36	36	..	..	45	45	..	..	..
36	36	..	..	45	45	..	..	..
39	39	..	..	45	45	..	..	..
17	33	..	..	43	43	..	..	..
..	..	..	..	54	61	..	..	42
..	..	..	..	47	54	..	..	37
..	..	..	..	48	58	..	..	34
..	..	..	..	49	54	..	..	40
..	..	..	..	53	54	..	..	16
..	..	..	..	54	55	..	..	17
..	..	..	..	54	55	..	..	15
..	..	..	..	51	52	..	..	17
64	65	73	5	51	41	54	83	25
59	63	63	16	51	40	54	83	28
60	64	67	15	51	36	55	82	27
54	55	65	15	50	37	53	82	28
..	..	..	..	55	55	..	..	..
..	..	..	..	47	47	..	..	..
..	..	..	..	48	48	..	..	..
..	..	..	..	47	47	..	..	..
61	82	98	35	29	2	37	..	34
54	78	88	33	28	4	35	..	31
36	47	0	13	36	1	43	..	47
26	34	0	13	36	3	40	..	51

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Cuba	2015	37	37	9	..	17	17	..
	2016	36	37	11	..	15	15	..
	2017	36	37	14	..	11	11	..
	2018	36	36	26	..	14	14	..
Curaçao	2015	33	32	..	..	47	22	..
	2016	33	32	..	..	49	14	..
	2017	40	40	..	..	41	21	..
	2018	38	35	..	..	57	20	..
Dominica	2015	38	41	28	..	..	..	..
	2016	40	39	42	..	..	..	..
	2017	33	34	31	..	..	..	..
	2018	28	28	28	..	..	..	..
Dominican Republic	2015	39	42	17	..	39	16	..
	2016	41	44	28	..	27	13	..
	2017	42	44	41	..	33	15	..
	2018	43	46	33	..	31	13	..
El Salvador	2015	41	37	33	..	..	7	86
	2016	40	35	31	..	..	23	88
	2017	33	23	34	..	..	28	88
	2018	31	21	32	..	..	20	86
Greenland	2015	32	12	53	..	..	..	..
	2016	30	11	50	..	..	..	..
	2017	32	15	49	..	..	..	..
	2018	32	15	50	..	..	..	..
Grenada	2015	49	49	..	..	..	3	..
	2016	51	52	..	..	..	3	..
	2017	51	52	..	..	..	3	..
	2018	50	50	..	..	..	3	..
Guatemala	2015	41	41	43	..	16	20	86
	2016	39	42	35	..	32	26	98
	2017	42	36	50	..	33	25	86
	2018	44	49	40	..	34	26	73
Haiti	2015	36	40	16	..	..	..	..
	2016	37	42	13	..	..	..	..
	2017	35	38	24	..	..	18	..
	2018	34	33	37	..	..	18	..
Honduras	2015	47	61	42	..	50	12	..
	2016	43	52	40	..	37	25	..
	2017	41	44	53	..	29	23	30
	2018	41	39	54	..	47	22	97
Jamaica	2015	50	52	50	..	22	..	..
	2016	48	52	46	..	23	6	..
	2017	48	51	61	..	33	13	..
	2018	48	51	70	..	34	13	..
Mexico	2015	53	58	29	88	31	16	80
	2016	50	56	28	75	29	15	76
	2017	49	55	29	77	29	19	69
	2018	50	57	30	97	30	9	60
Montserrat	2015	50	50	..	..	..	..	..
	2016	42	42	..	..	..	..	..
	2017	40	40	..	..	..	..	..
	2018	41	41	..	..	..	..	..
Nicaragua	2015	39	36	24	..	53	17	50
	2016	38	34	34	..	45	17	52
	2017	35	31	38	..	39	11	55
	2018	36	30	33	..	49	20	59

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
19	19	..	..	38	39	9	..	17
22	22	..	..	37	38	11	..	15
21	21	..	..	38	38	14	..	11
16	16	..	..	38	38	26	..	14
16	16	..	..	50	53	..	..	41
13	13	..	..	51	57	..	..	38
10	10	..	..	54	62	..	..	38
15	15	..	..	49	49	..	..	50
28	34	..	..	46	47	42	..	..
28	34	..	..	48	43	63	..	..
28	34	..	..	37	33	47	..	..
28	34	..	..	28	23	42	..	..
15	15	49	15	49	56	17	..	39
16	16	50	15	50	56	28	..	24
17	17	50	14	51	54	41	..	30
18	18	50	14	51	57	33	..	24
33	35	32	7	43	37	33	..	86
32	31	42	23	42	37	30	..	88
34	32	43	39	33	20	33	..	72
28	30	42	17	31	17	32	..	72
..	..	..	..	35	14	53	..	..
..	..	..	..	33	13	50	..	..
..	..	..	..	35	19	49	..	..
..	..	..	..	35	19	50	..	..
48	48	..	..	49	49	..	..	3
52	52	..	..	51	52	..	..	3
51	51	..	..	51	52	..	..	3
92	92	..	..	50	50	..	..	3
14	14	73	..	48	56	42	..	30
15	15	52	..	45	57	35	..	41
13	13	56	..	49	49	50	..	38
18	18	63	..	50	67	40	..	37
5	5	..	..	48	59	16	..	..
4	4	..	..	50	63	13	..	..
3	3	..	..	48	56	24	..	18
2	2	..	..	47	50	37	..	18
60	60	..	..	45	61	42	..	23
30	30	..	..	44	56	40	..	28
57	57	..	..	40	41	53	..	26
76	76	..	..	38	31	54	..	33
59	68	..	23	45	45	50	..	..
55	68	..	23	44	46	46	..	..
55	65	..	32	44	45	61	..	..
55	65	..	34	44	44	70	..	..
43	48	45	27	55	61	29	88	63
37	40	44	26	54	62	28	75	59
43	47	46	28	51	57	29	77	48
43	49	52	28	52	59	29	97	27
..	..	..	..	50	50	..	..	..
..	..	..	..	42	42	..	..	..
..	..	..	..	40	40	..	..	..
..	..	..	..	41	41	..	..	..
43	43	13	..	38	35	25	..	52
38	38	13	..	37	33	34	..	48
46	46	0	..	33	27	38	..	45
47	48	0	..	34	26	33	..	52

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Panama	2015	36	34	41	..	19	4	..
	2016	37	34	42	..	26	9	..
	2017	37	29	47	..	21	12	13
	2018	32	17	50	..	25	14	25
Puerto Rico	2015	40	41	6	..	22	12	..
	2016	38	40	8	..	18	10	..
	2017	30	31	6	..	17	11	..
	2018	30	32	4	..	12	6	..
Sint Maarten (Dutch part)	2015	43	43	..	..	..	..	..
	2016	44	44	..	..	..	..	..
	2017	43	43	..	..	..	..	..
	2018	36	36	..	..	..	..	..
St. Kitts-Nevis	2015	39	39	..	..	42	19	..
	2016	40	41	..	..	42	17	..
	2017	41	42	..	..	42	17	..
	2018	37	38	..	..	46	17	..
St. Lucia	2015	49	49	..	..	..	..	..
	2016	51	51	..	..	..	..	..
	2017	52	52	..	..	..	..	..
	2018	50	52	..	..	..	19	..
St. Pierre-Miquelon	2015	22	22	..	..	..	..	..
	2016	22	22	..	..	..	..	..
	2017	22	22	..	..	..	..	..
	2018	22	22	..	..	..	..	..
St. Vincent-Grenadines	2015	31	32	30	..	..	15	..
	2016	33	34	32	..	..	14	..
	2017	36	36	41	..	..	12	..
	2018	38	38	48	..	..	11	..
Trinidad and Tobago	2015	47	47	..	..	..	18	..
	2016	46	46	..	..	..	22	..
	2017	45	45	..	..	..	22	..
	2018	49	49	..	..	..	22	..
Turks and Caicos Islands	2015	33	33	..	..	..	..	..
	2016	35	35	..	..	..	..	..
	2017	33	33	..	..	..	..	..
	2018	35	35	..	..	..	..	..
United States	2015	46	44	30	96	30	17	73
	2016	45	43	32	96	32	17	73
	2017	44	41	36	96	34	19	61
	2018	45	43	35	97	33	19	72
United States Virgin Is.	2015	27	28	..	..	..	16	..
	2016	27	28	..	..	..	15	..
	2017	21	21	..	..	..	12	..
	2018	21	22	..	..	..	12	..
America, South	2015	47	45	49	67	31	23	0
	2016	44	40	47	73	36	25	23
	2017	42	37	46	67	38	17	30
	2018	42	36	46	67	37	20	60
Argentina	2015	44	43	47	46	32	19	..
	2016	45	45	43	54	29	18	..
	2017	42	42	42	40	31	23	..
	2018	41	42	42	42	21	6	..
Bolivia (Plur. State of)	2015	43	39	57	..	46	11	..
	2016	43	45	40	..	15	13	..
	2017	42	43	41	..	25	6	..
	2018	41	41	43	..	25	20	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
2	2	..	..	39	40	43	..	17
2	2	..	..	39	39	44	..	22
2	2	..	..	39	34	48	..	18
8	11	..	..	33	17	52	..	20
47	47	..	..	39	41	6	..	18
47	47	..	..	38	40	8	..	14
39	39	..	..	30	31	6	..	13
42	42	..	..	30	32	4	..	8
..	..	..	..	43	43	..	..	..
..	..	..	..	44	44	..	..	..
..	..	..	..	43	43	..	..	..
..	..	..	..	36	36	..	..	..
3	3	..	..	41	42	..	..	33
3	3	..	..	43	44	..	..	30
3	3	..	..	44	45	..	..	30
3	3	..	..	39	40	..	..	31
..	..	..	..	49	49	..	..	..
..	..	..	..	51	51	..	..	..
..	..	..	..	52	52	..	..	..
..	..	..	..	50	52	..	..	19
..	..	..	..	22	22	..	..	..
..	..	..	..	22	22	..	..	..
..	..	..	..	22	22	..	..	..
..	..	..	..	22	22	..	..	..
23	..	..	23	31	32	30	..	13
25	..	..	25	33	34	32	..	12
23	..	..	23	36	36	41	..	9
24	..	..	24	38	38	48	..	8
10	10	..	..	48	49	..	..	18
9	9	..	..	47	47	..	..	22
9	9	..	..	47	47	..	..	22
8	8	..	..	51	51	..	..	22
..	..	..	..	33	33	..	..	..
..	..	..	..	35	35	..	..	..
..	..	..	..	33	33	..	..	..
..	..	..	..	35	35	..	..	..
50	63	54	16	46	43	30	96	31
47	63	49	15	45	42	32	96	31
45	64	53	14	44	41	36	96	32
43	64	57	14	46	43	35	97	32
15	..	..	15	27	28	..	..	17
15	..	..	15	27	28	..	..	17
10	..	..	10	21	21	..	..	17
11	..	..	11	22	22	..	..	17
46	46	49	24	47	45	49	67	31
44	44	49	14	44	39	47	73	35
42	42	44	10	42	36	47	67	34
42	42	46	11	42	34	46	67	33
44	44	15	..	44	43	47	46	31
47	47	26	..	44	45	43	54	29
47	47	26	..	41	41	42	40	31
47	47	26	..	41	41	42	42	18
20	20	46	..	44	41	57	..	23
17	17	46	..	46	48	40	..	15
21	20	46	..	44	45	41	..	20
22	22	53	..	42	43	43	..	22

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Brazil	2015	47	53	45	85	32	32	..
	2016	44	41	45	91	38	11	..
	2017	43	43	42	90	39	9	..
	2018	42	41	43	90	38	17	..
Chile	2015	40	41	42	..	27	25	..
	2016	37	37	40	..	27	27	..
	2017	34	35	37	..	31	24	30
	2018	34	34	40	..	27	24	61
Colombia	2015	51	56	48	..	43	4	..
	2016	50	53	48	..	32	4	..
	2017	51	33	60	..	2	4	..
	2018	51	37	58	..	27	2	..
Ecuador	2015	45	37	59	..	53	16	..
	2016	36	32	40	..	45	17	..
	2017	38	24	49	..	40	17	..
	2018	37	25	45	..	43	16	..
Falkland Is. (Malvinas)	2015	20	18	..	..	30	..	..
	2016	22	20	..	..	35	..	..
	2017	21	19	..	..	30	..	..
	2018	21	18	..	..	31	..	..
Guyana	2015	31	31	..	..	50	16	..
	2016	34	34	..	..	50	16	..
	2017	36	37	..	..	50	16	..
	2018	37	38	..	..	50	16	..
Paraguay	2015	73	1	73	..	..	..	..
	2016	83	29	83	..	..	..	..
	2017	78	34	78	..	..	..	..
	2018	77	35	77	..	..	..	..
Peru	2015	46	36	66	..	28	26	..
	2016	41	34	55	..	51	28	..
	2017	41	28	63	..	51	13	..
	2018	41	27	65	..	46	28	..
Suriname	2015	47	51	42	..	..	10	..
	2016	46	46	47	..	..	10	..
	2017	48	44	56	..	..	10	..
	2018	52	47	60	..	..	10	..
Uruguay	2015	39	25	61	..	28	9	..
	2016	41	31	58	..	28	19	..
	2017	36	26	56	..	29	13	..
	2018	34	21	49	..	36	19	..
Venezuela (Bolivar. Rep.)	2015	46	36	56	..	33	48	23
	2016	41	35	47	..	38	48	23
	2017	36	28	46	..	38	27	23
	2018	35	27	44	..	16	23	..
Asia	2015	43	48	35	47	16	11	58
	2016	42	47	36	48	18	11	56
	2017	42	48	35	52	20	11	55
	2018	43	49	36	56	22	13	32
Afghanistan	2015	29	13	35	..	..	..	..
	2016	31	13	37	..	..	..	..
	2017	31	15	37	..	..	..	..
	2018	28	17	32	..	..	..	..
Armenia	2015	25	17	20	78	11	11	..
	2016	23	16	20	67	8	11	..
	2017	25	18	20	73	8	7	..
	2018	25	21	20	58	7	12	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
48	48	49	48	47	58	45	85	32
46	46	49	11	43	37	45	91	38
45	46	42	14	42	41	42	90	37
45	47	44	13	41	35	43	90	36
53	53	63	34	39	39	42	..	26
32	32	51	0	37	38	40	..	27
22	23	63	0	36	38	37	..	28
18	19	62	1	37	39	40	..	26
62	66	15	4	50	53	49	..	9
64	68	16	4	48	48	49	..	32
65	69	18	4	49	22	60	..	3
71	75	20	4	49	25	59	..	6
48	46	62	..	45	34	59	..	33
50	48	66	..	34	27	39	..	30
62	58	82	..	35	15	48	..	27
65	60	87	..	33	16	44	..	28
11	11	..	..	22	20	..	..	29
11	11	..	..	25	22	..	..	34
11	11	..	..	23	21	..	..	29
11	11	..	..	23	20	..	..	30
13	13	..	..	34	34	..	..	17
17	17	..	..	37	38	..	..	17
19	19	..	..	39	40	..	..	17
19	19	..	..	41	41	..	..	17
..	..	..	..	73	1	73	..	..
..	..	..	..	83	29	83	..	..
..	..	..	..	78	34	78	..	..
..	..	..	..	77	35	77	..	..
19	15	65	..	50	40	66	..	28
17	14	63	..	44	37	54	..	44
18	14	60	12	43	31	63	..	32
19	15	65	13	44	30	65	..	39
48	58	42	..	46	47	..	..	10
53	62	47	..	35	36	..	..	10
53	49	56	..	40	41	..	..	10
62	65	60	..	35	35	..	..	10
40	42	..	4	39	18	61	..	27
39	42	..	3	41	23	58	..	28
39	43	..	4	36	16	56	..	27
42	46	..	5	33	11	49	..	34
24	23	..	..	47	37	56	..	17
23	22	..	..	41	36	47	..	22
22	21	..	..	36	28	46	..	21
21	21	..	..	35	27	44	..	0
36	40	16	17	44	50	36	47	16
37	42	10	18	42	47	36	48	17
42	51	8	18	42	48	36	52	17
42	51	6	16	43	49	36	56	18
18	1	26	..	36	24	40	..	..
19	1	27	..	38	24	42	..	..
19	1	28	..	39	27	42	..	..
17	1	25	..	34	31	35	..	..
..	..	..	..	25	17	20	78	11
..	..	..	..	23	16	20	67	9
13	..	..	13	25	18	20	73	5
16	..	..	16	25	21	20	58	7

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Azerbaijan	2015	36	39	17	..	7	12	..
	2016	36	39	20	..	17	16	..
	2017	35	38	18	..	16	15	..
	2018	37	40	18	..	14	13	..
Bahrain	2015	47	47	..	..	..	21	..
	2016	47	47	..	..	11	21	..
	2017	48	48	..	..	11	21	..
	2018	48	48	..	..	11	21	..
Bangladesh	2015	61	62	30	..	68	18	..
	2016	66	67	51	..	68	19	..
	2017	68	69	52	..	68	19	..
	2018	59	59	54	..	68	25	..
Bhutan	2015	55	0	55	..	..	63	..
	2016	56	0	56	..	14	63	..
	2017	54	0	55	..	21	63	..
	2018	49	0	49	..	21	15	..
Brunei Darussalam	2015	59	59	..	..	..	19	..
	2016	59	60	..	..	..	10	..
	2017	48	48	..	..	..	19	..
	2018	49	49	..	..	..	19	..
Cambodia	2015	30	38	25	..	..	17	..
	2016	38	45	32	..	..	17	..
	2017	43	55	32	..	..	6	..
	2018	43	46	41	..	..	18	..
China	2015	41	45	39	72	16	10	50
	2016	40	44	40	72	18	9	36
	2017	41	46	38	79	21	10	10
	2018	42	49	39	75	23	12	10
China, Hong Kong SAR	2015	34	34	..	..	..	..	..
	2016	34	34	..	..	..	..	..
	2017	34	34	..	..	..	..	..
	2018	34	34	..	..	..	..	..
China, Macao SAR	2015	21	21	..	..	..	..	..
	2016	22	22	..	..	..	..	..
	2017	33	33	..	..	..	..	..
	2018	17	17	..	..	..	..	..
Cyprus	2015	30	31	..	..	16	19	..
	2016	32	34	..	..	16	20	..
	2017	32	35	..	..	15	18	..
	2018	32	35	..	..	16	19	..
Georgia	2015	41	44	41	..	..	..	..
	2016	40	30	44	..	5	..	..
	2017	37	30	39	..	50	..	..
	2018	39	28	42	..	48	..	..
India	2015	54	63	34	74	14	15	..
	2016	44	51	31	64	11	11	49
	2017	42	50	32	65	12	11	54
	2018	42	50	34	64	19	16	..
Indonesia	2015	41	42	32	..	..	6	45
	2016	45	44	50	..	10	19	68
	2017	53	54	41	..	10	19	67
	2018	52	53	39	..	..	5	71
Iran (Islamic Rep. of)	2015	43	49	14	33	16	1	16
	2016	45	50	16	74	15	1	21
	2017	46	52	14	84	13	5	23
	2018	45	50	14	84	24	11	23

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
37	37	..	..	36	40	17	..	9
35	35	..	24	36	39	20	..	14
31	31	..	28	35	39	18	..	13
28	28	..	0	38	42	18	..	14
42	42	..	..	50	50	..	..	17
43	43	..	..	50	50	..	..	19
42	42	..	..	52	52	..	..	19
44	44	..	..	52	52	..	..	19
77	77	..	..	56	57	30	..	18
86	86	..	..	61	62	51	..	19
82	82	..	..	65	66	52	..	19
75	75	..	..	55	56	54	..	25
..	..	..	..	55	0	55	..	63
..	..	..	..	56	0	56	..	22
..	..	..	..	54	0	55	..	28
..	..	..	..	49	0	49	..	19
48	48	..	..	60	60	..	..	19
44	44	..	..	62	62	..	..	10
42	42	..	..	49	49	..	..	19
43	43	..	..	50	50	..	..	19
..	..	..	..	30	38	25	..	17
..	..	..	..	38	45	32	..	17
..	..	..	..	43	55	32	..	6
..	..	..	..	43	46	41	..	18
39	44	..	..	41	45	40	72	15
37	41	..	..	40	44	41	72	15
75	97	..	..	39	44	40	79	16
79	92	..	..	41	47	40	75	17
..	..	..	..	34	34	..	..	..
..	..	..	..	34	34	..	..	..
..	..	..	..	34	34	..	..	..
..	..	..	..	34	34	..	..	..
60	60	..	..	18	18	..	..	..
57	57	..	..	19	19	..	..	..
59	59	..	..	30	30	..	..	..
52	52	..	..	13	13	..	..	..
15	12	..	18	30	32	..	..	17
17	14	..	20	32	35	..	..	17
17	14	..	20	33	35	..	..	16
18	16	..	20	33	35	..	..	17
..	..	..	..	41	44	41	..	..
..	..	..	..	40	30	44	..	5
..	..	..	..	37	30	39	..	50
..	..	..	..	39	28	42	..	48
30	31	30	20	63	83	34	74	13
43	46	25	12	44	52	31	64	17
37	39	26	13	43	53	32	65	17
34	35	23	9	44	54	34	64	16
66	66	67	64	32	33	23	..	36
40	35	67	75	48	48	44	..	57
34	29	51	82	62	65	37	..	49
9	10	..	..	73	74	63	..	71
13	13	..	..	46	52	14	33	15
13	13	..	..	47	53	16	74	13
16	16	..	..	48	55	14	84	10
15	15	..	..	47	53	14	84	18

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Iraq	2015	25	26	12	..	..	18	..
	2016	28	30	15	..	..	18	..
	2017	37	38	14	..	..	18	..
	2018	34	36	12	..	..	20	..
Israel	2015	43	44	39	..	13	17	..
	2016	43	45	0	..	0	20	..
	2017	43	45	0	..	76	18	..
	2018	44	46	0	..	60	13	..
Japan	2015	37	53	21	3	23	12	88
	2016	36	51	20	5	22	12	87
	2017	36	50	21	10	21	13	89
	2018	35	47	20	19	24	13	83
Jordan	2015	49	50	50	..	12	4	..
	2016	50	54	40	..	22	19	..
	2017	49	54	36	..	26	17	..
	2018	45	53	22	..	29	14	..
Kazakhstan	2015	48	49	42	..	15	11	..
	2016	48	48	53	..	18	19	..
	2017	47	46	51	..	19	19	..
	2018	50	50	47	..	24	24	..
Korea, Dem.Ppl's.Rep.	2015	21	14	26	..	..	16	..
	2016	25	16	31	..	..	15	..
	2017	22	12	29	..	..	16	..
	2018	22	9	31	..	..	17	..
Korea, Republic of	2015	61	61	10	87	18	13	42
	2016	58	58	12	80	18	13	39
	2017	53	53	12	75	20	14	44
	2018	53	56	13	70	20	13	43
Kuwait	2015	43	43	..	..	..	..	..
	2016	42	42	..	..	..	0	..
	2017	44	44	..	..	..	11	..
	2018	45	45	..	..	..	11	..
Kyrgyzstan	2015	38	28	41	..	..	..	..
	2016	40	28	43	..	..	..	..
	2017	46	20	52	..	..	..	..
	2018	46	22	52	..	..	..	..
Lao People's Dem. Rep.	2015	33	15	42	..	..	16	..
	2016	44	42	45	..	..	16	..
	2017	52	70	45	..	..	16	..
	2018	55	75	47	..	..	20	..
Lebanon	2015	65	69	20	..	..	17	..
	2016	67	72	16	..	..	14	..
	2017	72	77	19	..	..	13	..
	2018	71	76	16	..	..	13	..
Malaysia	2015	56	66	28	..	..	14	..
	2016	54	60	37	..	..	13	..
	2017	56	59	50	..	..	11	..
	2018	57	62	49	..	..	7	..
Maldives	2015	26	26	..	..	23	17	..
	2016	28	28	..	..	23	16	..
	2017	30	30	..	..	23	16	..
	2018	32	32	..	..	23	16	..
Mongolia	2015	54	58	..	..	..	..	..
	2016	54	59	..	..	..	..	..
	2017	54	61	..	..	..	..	..
	2018	51	62	..	..	..	..	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
18	..	..	18	25	26	12	..	..
18	..	..	18	28	30	15	..	..
18	..	..	18	37	38	14	..	..
20	..	..	20	34	36	12	..	..
35	61	51	17	43	43	34	..	13
33	55	0	20	44	44	0	..	0
31	44	0	20	45	45	0	..	0
29	55	0	15	46	46	0	..	0
28	35	44	18	41	59	19	3	48
27	40	72	18	38	52	19	5	18
25	39	68	17	38	51	20	10	18
24	39	83	16	38	48	20	19	18
27	27	..	..	50	51	50	..	12
11	11	..	..	52	56	40	..	20
11	11	..	..	51	56	36	..	20
8	8	..	..	47	55	22	..	18
11	..	..	11	48	49	42	..	14
11	..	..	11	48	48	53	..	19
11	..	..	11	47	46	51	..	19
11	..	..	11	50	50	47	..	24
..	..	..	..	21	14	26	..	16
..	..	..	..	25	16	31	..	15
..	..	..	..	22	12	29	..	16
..	..	..	..	22	9	31	..	17
45	52	..	5	62	62	10	87	19
54	59	..	9	58	58	12	80	17
43	45	..	12	53	54	12	75	17
41	45	..	12	54	57	13	70	16
..	..	..	..	43	43	..	..	..
0	..	..	0	42	42	..	..	..
1	..	..	11	44	44	..	..	..
1	..	..	11	45	45	..	..	..
46	46	..	..	38	27	41	..	..
49	49	..	..	40	28	43	..	..
29	29	..	..	46	20	52	..	..
74	74	..	..	46	21	52	..	..
..	..	..	..	33	15	42	..	16
..	..	..	..	44	42	45	..	16
..	..	..	..	52	70	45	..	16
..	..	..	..	55	75	47	..	20
91	92	..	17	54	58	20	..	..
89	91	..	14	58	63	16	..	..
90	92	..	13	65	70	19	..	..
79	82	..	13	68	74	16	..	..
19	26	..	..	61	70	28	..	9
22	28	..	..	58	64	37	..	8
25	25	27	1	59	62	50	..	11
31	42	..	1	59	64	49	..	6
21	21	..	..	31	31	..	..	18
22	22	..	..	33	34	..	..	17
24	24	..	..	35	36	..	..	17
26	26	..	..	37	39	..	..	17
..	..	..	..	55	58	..	..	..
..	..	..	..	56	59	..	..	..
..	..	..	..	55	61	..	..	..
..	..	..	..	53	62	..	..	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Myanmar	2015	35	36	34	..	..	..	..
	2016	38	43	34	..	..	..	..
	2017	39	42	38	..	..	..	..
	2018	52	57	49	..	..	..	..
Nepal	2015	50	..	53	..	11	11	..
	2016	49	..	53	..	11	11	..
	2017	46	0	49	..	11	10	..
	2018	47	0	50	..	27	10	..
Oman	2015	48	48	..	..	..	21	..
	2016	48	48	..	..	..	21	..
	2017	50	50	..	..	..	5	..
	2018	49	49	..	..	..	6	..
Other Asia	2015	61	65	18	81	19	11	..
	2016	61	67	24	70	17	10	..
	2017	63	73	21	50	20	11	..
	2018	60	68	19	70	19	11	..
Pakistan	2015	51	49	53	88	21	..	31
	2016	49	48	55	70	27	6	32
	2017	45	43	52	72	21	19	34
	2018	44	44	44	79	23	19	31
Philippines	2015	50	55	27	..	20	10	66
	2016	48	53	26	..	26	16	66
	2017	47	51	30	..	29	15	61
	2018	48	52	29	..	31	16	61
Qatar	2015	55	55	..	..	..	..	..
	2016	56	56	..	..	..	..	..
	2017	51	51	..	..	..	..	..
	2018	52	52	..	..	..	..	..
Saudi Arabia	2015	56	56	..	..	..	17	..
	2016	53	53	..	..	..	16	..
	2017	50	50	..	..	14	14	..
	2018	51	51	..	..	14	23	..
Singapore	2015	44	44	..	..	..	17	..
	2016	44	44	..	..	..	17	..
	2017	44	44	..	..	..	17	..
	2018	45	45	..	..	..	17	..
Sri Lanka	2015	38	37	40	..	31	23	..
	2016	41	53	28	..	31	12	..
	2017	42	55	27	..	33	24	..
	2018	44	50	41	..	29	16	..
State of Palestine	2015	34	36	..	..	..	9	..
	2016	33	35	..	..	..	19	..
	2017	33	36	..	..	..	17	..
	2018	24	26	..	..	..	17	..
Syrian Arab Republic	2015	23	27	3	..	..	..	..
	2016	21	24	7	..	..	..	..
	2017	22	25	6	..	..	..	..
	2018	21	23	6	..	..	..	..
Tajikistan	2015	31	8	33	..	..	..	..
	2016	30	10	32	..	..	..	..
	2017	31	16	33	..	..	..	..
	2018	34	21	36	..	..	..	..
Thailand	2015	34	38	12	..	16	8	38
	2016	35	38	12	..	8	11	38
	2017	34	37	16	..	20	15	38
	2018	32	35	24	..	17	13	38

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
33	28	45	..	35	38	33	..	..
50	52	39	..	36	40	34	..	..
36	34	43	..	40	44	37	..	..
37	34	45	..	54	63	49	..	..
18	..	18	..	54	..	59	..	11
6	..	6	..	67	..	73	..	11
3	..	3	..	81	0	90	..	11
3	..	3	..	86	0	95	..	24
..	..	..	..	48	48	..	..	21
..	..	..	..	48	48	..	..	21
..	..	..	..	50	50	..	..	5
..	..	..	..	49	49	..	..	6
25	27	..	6	80	93	18	81	58
24	27	..	6	80	94	24	70	55
23	26	..	7	84	106	21	50	66
26	30	..	9	79	93	19	70	64
47	53	..	31	51	49	53	88	15
38	41	..	32	50	48	55	70	15
37	40	..	34	45	43	52	72	20
39	45	..	31	44	44	44	79	22
25	26	12	..	50	56	27	..	54
25	26	12	..	48	54	26	..	48
26	26	12	..	47	52	30	..	44
30	32	12	..	48	53	29	..	45
61	61	..	..	22	22	..	..	..
62	62	..	..	23	23	..	..	..
57	57	..	..	21	21	..	..	..
59	59	..	..	11	11	..	..	..
78	78	..	..	52	52	..	..	17
80	80	..	..	48	48	..	..	16
70	70	..	..	46	46	..	..	14
90	90	..	..	38	38	..	..	16
88	88	..	..	43	43	..	..	17
96	96	..	..	42	42	..	..	17
80	80	..	..	42	43	..	..	17
95	95	..	..	42	43	..	..	17
38	33	40	24	38	37	41	..	31
25	43	25	17	43	53	29	..	27
31	34	31	30	43	56	26	..	29
33	31	36	18	46	50	42	..	23
68	86	..	9	28	29	..	..	9
62	89	..	19	27	28	..	..	19
50	75	..	17	29	30	..	..	17
39	61	..	17	20	21	..	..	17
6	6	..	..	25	30	3	..	..
8	8	..	..	23	26	7	..	..
9	9	..	..	23	27	6	..	..
8	8	..	..	22	25	6	..	..
..	..	..	..	31	8	33	..	..
..	..	..	..	30	10	32	..	..
..	..	..	..	31	16	33	..	..
..	..	..	..	34	21	36	..	..
23	24	..	12	40	44	12	..	4
33	35	..	17	36	40	12	..	4
38	39	..	23	33	35	16	..	9
41	44	..	23	29	31	24	..	8

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Timor-Leste	2015	14	14	53	..	..	18	..
	2016	17	17	53	..	..	18	..
	2017	17	17	53	..	..	18	..
	2018	18	18	53	..	..	18	..
Turkey	2015	41	49	30	..	30	9	62
	2016	40	48	29	..	31	14	66
	2017	40	52	24	..	31	10	65
	2018	39	51	24	..	33	18	65
Turkmenistan	2015	58	58	..	..	..	..	..
	2016	55	55	..	..	..	..	..
	2017	49	49	..	..	..	..	..
	2018	49	49	..	..	..	..	..
United Arab Emirates	2015	51	51	..	..	..	27	..
	2016	51	52	..	..	..	29	..
	2017	51	51	..	..	..	28	..
	2018	50	51	..	..	..	25	..
Uzbekistan	2015	50	51	41	..	..	0	..
	2016	47	48	42	..	..	2	..
	2017	48	48	49	..	..	3	..
	2018	50	53	35	..	..	1	..
Viet Nam	2015	48	53	40	..	22	..	..
	2016	48	51	43	..	15	..	..
	2017	51	48	56	..	15	..	..
	2018	54	56	52	..	15	2	..
Yemen	2015	45	46	..	..	..	21	..
	2016	33	37	..	..	..	7	..
	2017	28	31	..	..	..	8	..
	2018	23	24	..	..	..	21	..
Europe	2015	40	39	33	80	25	13	54
	2016	39	40	34	78	23	12	53
	2017	39	40	31	78	25	12	52
	2018	38	39	34	78	24	12	53
Albania	2015	35	..	37	..	..	..	..
	2016	42	..	45	..	..	..	..
	2017	24	..	25	..	..	..	..
	2018	44	..	46	..	..	..	..
Andorra	2015	22	32	21	..	..	11	..
	2016	22	32	21	..	..	17	..
	2017	23	39	22	..	..	16	..
	2018	30	46	29	..	..	7	..
Austria	2015	30	28	34	..	22	11	0
	2016	31	30	35	..	22	11	0
	2017	33	37	34	..	26	11	..
	2018	31	35	32	..	22	11	..
Belarus	2015	40	40	36	..	42	13	..
	2016	38	39	22	..	14	7	..
	2017	39	39	45	..	13	13	..
	2018	43	44	35	..	11	9	..
Belgium	2015	38	44	11	50	29	11	31
	2016	45	42	12	84	26	11	31
	2017	45	44	11	81	27	10	31
	2018	38	46	11	55	26	11	26
Bosnia and Herzegovina	2015	41	53	30	..	..	..	..
	2016	46	63	30	..	..	30	..
	2017	41	62	21	..	..	15	..
	2018	49	67	33	..	23	13	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	14	14	53	..	18
..	..	..	..	17	17	53	..	18
..	..	..	..	17	17	53	..	18
..	..	..	..	18	18	53	..	18
48	51	26	59	40	49	30	..	32
45	50	18	27	40	47	29	..	34
37	46	20	15	40	52	24	..	30
35	42	22	20	40	52	24	..	32
..	..	..	..	58	58	..	..	..
..	..	..	..	55	55	..	..	..
..	..	..	..	49	49	..	..	..
..	..	..	..	49	49	..	..	..
..	..	..	..	51	51	..	..	27
..	..	..	..	51	52	..	..	29
..	..	..	..	51	51	..	..	28
..	..	..	..	50	51	..	..	25
..	..	..	..	50	51	41	..	0
..	..	..	..	47	48	42	..	2
..	..	..	..	48	48	49	..	3
..	..	..	..	50	53	35	..	1
14	16	3	4	51	58	41	..	22
10	11	3	4	53	61	43	..	15
9	9	3	4	57	58	57	..	14
9	9	3	4	61	68	53	..	11
28	32	..	21	48	48	..	..	..
13	27	..	7	38	38	..	..	..
14	26	..	8	31	31	..	..	..
22	25	..	21	24	24	..	..	..
37	44	40	13	40	39	33	80	21
37	45	37	13	40	39	34	78	20
35	43	35	13	39	40	31	78	21
35	43	37	13	39	38	34	78	21
..	..	..	..	35	..	37	..	..
..	..	..	..	43	..	45	..	..
..	..	..	..	24	..	25	..	..
..	..	..	..	44	..	46	..	..
..	..	..	..	22	32	21	..	11
..	..	..	..	22	32	21	..	17
..	..	..	..	23	39	22	..	16
..	..	..	..	30	46	29	..	7
40	49	10	..	29	22	35	..	19
40	49	11	..	30	24	36	..	19
53	66	13	..	31	29	35	..	22
53	66	13	..	29	27	33	..	19
48	49	11	25	39	39	41	..	30
46	46	27	14	38	38	21	..	11
50	53	17	13	38	38	47	..	13
50	55	13	10	43	43	37	..	9
26	56	..	11	41	42	11	50	29
25	53	..	11	51	40	12	84	26
26	59	..	10	50	41	11	81	27
25	57	..	11	42	44	11	55	26
21	21	..	..	43	56	30	..	..
20	20	..	..	48	68	30	..	30
22	22	..	..	43	66	21	..	15
71	71	..	..	49	67	33	..	21

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Bulgaria	2015	51	71	22	89	24	15	..
	2016	47	66	16	92	23	15	..
	2017	47	71	12	90	25	15	..
	2018	47	64	18	94	22	15	..
Croatia	2015	27	21	34	..	24	11	..
	2016	31	26	37	..	24	14	..
	2017	27	28	29	..	24	15	..
	2018	31	24	40	..	26	13	23
Czechia	2015	44	45	16	71	23	12	..
	2016	43	46	16	64	20	12	..
	2017	45	45	15	75	22	12	..
	2018	45	45	14	80	22	13	..
Denmark	2015	24	20	29	..	32	9	..
	2016	25	24	24	..	28	10	..
	2017	25	22	23	..	31	9	..
	2018	23	22	19	..	26	11	..
Estonia	2015	42	43	51	..	27	..	..
	2016	54	59	67	..	22	11	..
	2017	58	63	42	..	26	11	..
	2018	50	54	24	..	23	11	..
Faeroe Islands	2015	28	21	39	..	32	..	..
	2016	28	26	31	..	30	..	..
	2017	30	27	32	..	42	..	..
	2018	32	30	31	..	45	..	..
Finland	2015	47	31	59	96	26	7	..
	2016	48	35	56	96	22	6	..
	2017	45	32	52	92	27	7	..
	2018	47	36	46	93	33	7	..
France	2015	50	23	27	79	24	12	63
	2016	48	29	29	73	21	13	56
	2017	48	38	24	72	21	13	67
	2018	50	33	31	75	22	13	62
Germany	2015	36	48	25	97	21	11	52
	2016	36	50	27	89	18	11	62
	2017	35	49	27	81	22	11	53
	2018	32	43	25	80	21	12	49
Gibraltar	2015	59	59	..	..	..	..	..
	2016	57	57	..	..	..	..	11
	2017	48	48	..	..	..	..	11
	2018	57	57	..	..	..	..	11
Greece	2015	31	39	21	..	25	17	..
	2016	32	42	19	..	25	17	..
	2017	32	44	14	..	24	17	..
	2018	31	40	19	..	25	16	..
Guernsey	2015	16	16	..	..	..	..	..
	2016	9	9	..	..	..	..	..
	2017	7	7	..	..	..	..	..
	2018	5	5	..	..	..	..	..
Hungary	2015	40	25	47	90	24	9	51
	2016	42	27	52	92	24	12	24
	2017	42	29	44	92	26	12	24
	2018	40	28	44	89	21	10	42
Iceland	2015	77	0	79	..	42	..	86
	2016	76	0	77	..	34	..	87
	2017	78	0	80	..	46	..	83
	2018	76	0	75	..	23	..	91

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
18	30	..	..	52	72	22	89	19
16	28	..	..	48	68	16	92	19
18	32	..	..	48	74	12	90	19
19	33	..	..	48	66	18	94	18
22	21	34	..	28	21	34	..	22
23	23	40	..	31	26	37	..	23
30	30	25	..	27	28	29	..	23
26	26	25	..	31	23	40	..	25
56	59	34	..	43	43	14	71	14
57	59	36	..	42	45	14	64	13
54	55	38	..	44	44	13	75	13
52	54	31	..	44	43	12	80	14
23	41	..	9	24	18	29	..	32
22	38	..	10	25	23	24	..	28
21	38	..	9	25	21	23	..	31
22	38	..	11	23	21	19	..	26
58	65	..	27	41	43	51	..	27
88	103	..	25	54	58	67	..	21
51	55	..	..	58	63	42	..	26
52	54	..	11	50	54	24	..	22
..	..	..	..	28	21	39	..	32
..	..	..	..	28	26	31	..	30
..	..	..	..	30	27	32	..	42
..	..	..	..	32	30	31	..	45
56	54	66	8	46	25	58	96	27
53	51	64	8	48	30	55	96	22
49	48	61	7	44	27	51	92	28
52	53	57	7	46	31	46	93	33
27	41	33	14	51	19	27	79	21
25	38	37	14	50	28	29	73	20
26	40	32	14	50	37	24	72	19
25	41	38	13	52	32	31	75	20
53	54	42	54	35	48	25	97	16
59	59	47	62	34	49	27	89	15
56	56	47	56	33	48	27	81	17
52	52	31	55	31	41	25	80	17
..	..	..	..	59	59	..	..	..
..	..	..	..	57	57	..	..	11
..	..	..	..	48	48	..	..	11
..	..	..	..	57	57	..	..	11
48	48	..	..	31	39	21	..	21
39	39	..	..	32	42	19	..	21
39	39	..	..	32	44	14	..	21
45	45	..	..	31	40	19	..	21
..	..	..	..	16	16	..	..	..
..	..	..	..	9	9	..	..	..
..	..	..	..	7	7	..	..	..
..	..	..	..	5	5	..	..	..
24	33	..	14	41	25	47	90	23
25	37	..	13	43	27	52	92	23
24	39	..	13	44	28	44	92	24
21	44	..	12	42	27	44	89	18
..	..	..	..	77	0	79	..	86
..	..	..	..	76	0	77	..	87
..	..	..	..	78	0	80	..	83
..	..	..	..	76	0	75	..	91

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Ireland	2015	34	35	24	..	31	..	..
	2016	35	40	21	..	25	..	..
	2017	33	38	19	..	26	..	..
	2018	32	36	20	..	27	..	..
Isle of Man	2015	26	26	40	..	..	..	..
	2016	27	27	28	..	..	..	..
	2017	28	28	36	..	..	..	..
	2018	30	30	29	..	..	..	..
Italy	2015	28	33	24	..	19	14	71
	2016	29	37	23	..	22	13	73
	2017	30	39	19	..	21	14	71
	2018	29	36	26	..	20	13	69
Jersey	2015	7	7	..	..	..	..	..
	2016	10	10	..	..	..	..	..
	2017	7	7	..	..	..	..	..
	2018	7	7	..	..	..	..	..
Kosovo	2015	73	75	38	..	..	..	..
	2016	68	72	33	..	..	..	..
	2017	48	51	25	..	0	1	..
	2018	48	50	39	..	10	3	..
Latvia	2015	22	32	13	..	25	..	..
	2016	25	33	18	..	21	..	..
	2017	29	26	32	..	22	..	..
	2018	26	38	18	..	18	6	..
Liechtenstein	2015	50	25	56	..	..	43	..
	2016	64	27	77	..	..	45	..
	2017	66	26	78	..	..	50	..
	2018	63	22	71	..	..	58	..
Lithuania	2015	16	14	13	..	21	12	..
	2016	13	9	14	..	25	11	..
	2017	14	8	15	..	30	10	..
	2018	12	7	12	..	25	12	..
Luxembourg	2015	16	23	13	..	18	10	..
	2016	15	39	13	..	10	9	..
	2017	15	40	12	..	22	10	..
	2018	15	42	11	..	24	10	..
Malta	2015	22	23	..	..	..	14	..
	2016	17	17	..	..	..	16	..
	2017	27	29	..	..	7	16	..
	2018	31	34	..	..	7	17	..
Montenegro	2015	39	79	26	..	..	..	..
	2016	41	68	32	..	..	..	..
	2017	30	68	18	..	15	..	..
	2018	42	73	37	..	14	8	..
Netherlands	2015	37	39	29	96	25	8	46
	2016	38	42	31	93	22	9	43
	2017	40	44	19	80	29	9	39
	2018	37	43	22	83	27	9	32
North Macedonia	2015	36	38	32	..	37	15	58
	2016	35	37	33	..	34	16	82
	2017	35	45	19	..	34	16	84
	2018	35	38	30	..	30	15	88
Norway	2015	49	24	50	..	33	..	..
	2016	50	34	51	..	27	..	..
	2017	50	34	51	..	27	..	..
	2018	47	34	49	..	26	..	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
69	72	..	23	32	33	24	..	31
69	73	..	17	33	38	21	..	25
66	71	..	11	32	36	19	..	26
62	69	..	10	31	35	20	..	27
35	35	..	..	25	25	40	..	..
37	37	..	..	26	26	28	..	..
36	36	..	..	28	28	36	..	..
49	49	..	..	29	29	29	..	..
41	41	57	32	27	33	24	..	17
44	43	55	42	28	36	22	..	18
45	45	47	31	29	38	19	..	18
47	47	51	34	28	35	26	..	17
17	17	..	..	2	2	..	..	..
18	18	..	..	6	6	..	..	..
18	18	..	..	1	1	..	..	..
17	17	..	..	1	1	..	..	..
..	..	..	..	73	75	38	..	..
..	..	..	..	68	72	33	..	..
..	..	..	..	48	51	25	..	0
..	..	..	..	48	50	39	..	9
70	70	23	..	21	30	13	..	24
55	58	23	11	25	32	18	..	21
65	69	46	11	29	25	32	..	22
62	71	11	8	26	37	18	..	18
..	..	..	..	50	25	56	..	43
..	..	..	..	64	27	77	..	45
..	..	..	..	66	26	78	..	50
..	..	..	..	63	22	71	..	58
39	31	..	..	14	12	13	..	20
36	28	..	..	11	7	14	..	24
34	26	..	..	13	5	15	..	28
26	19	..	..	11	5	12	..	23
17	30	34	10	15	22	13	..	18
16	26	46	9	14	54	13	..	10
17	33	23	10	15	46	12	..	22
17	33	23	10	14	48	11	..	24
15	27	..	14	23	23	..	..	..
16	20	..	16	17	17	..	..	..
17	25	..	16	29	29	..	..	..
17	23	..	17	34	34	..	..	..
..	..	..	..	39	79	26	..	..
..	..	..	..	41	68	32	..	..
..	..	..	..	30	68	18	..	15
..	..	..	..	42	73	37	..	13
37	47	..	13	37	38	29	96	25
35	47	..	12	39	41	31	93	22
35	51	..	11	41	43	19	80	29
30	47	..	11	40	42	22	83	26
..	..	..	..	36	38	32	..	32
..	..	..	..	35	37	33	..	33
..	..	..	..	35	45	19	..	35
..	..	..	..	35	38	30	..	33
57	54	..	..	49	7	50	..	33
56	54	..	..	50	13	51	..	27
57	53	..	..	50	14	51	..	27
57	53	..	1	47	13	49	..	26

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Poland	2015	50	58	12	..	25	6	51
	2016	50	58	13	..	25	8	57
	2017	45	51	14	..	30	7	46
	2018	45	51	11	..	25	6	57
Portugal	2015	30	43	18	..	27	20	93
	2016	33	43	28	..	28	19	79
	2017	32	55	12	..	27	20	85
	2018	32	45	22	..	28	17	91
Republic of Moldova	2015	10	21	36	..	23	23	..
	2016	10	22	28	..	17	11	..
	2017	9	21	34	..	9	11	..
	2018	10	24	31	..	8	4	..
Romania	2015	32	29	29	94	26	17	..
	2016	32	28	31	91	25	15	..
	2017	31	30	25	93	28	15	..
	2018	31	28	31	92	24	15	..
Russian Federation	2015	47	45	38	85	17	9	67
	2016	47	43	42	83	18	10	65
	2017	47	43	42	83	16	11	67
	2018	47	43	43	80	16	12	66
Serbia	2015	59	73	41	..	..	14	..
	2016	61	73	43	..	17	12	..
	2017	57	72	37	..	22	15	..
	2018	53	61	44	..	6	10	..
Slovakia	2015	39	29	19	89	23	11	38
	2016	40	30	21	87	23	11	46
	2017	41	32	21	89	17	11	57
	2018	40	32	18	87	17	14	43
Slovenia	2015	51	51	36	94	14	13	..
	2016	53	50	42	95	14	13	..
	2017	51	48	35	104	14	13	..
	2018	49	41	42	96	13	12	..
Spain	2015	28	26	18	88	25	23	27
	2016	28	23	22	90	24	22	13
	2017	28	28	12	93	24	23	11
	2018	28	25	21	89	25	21	11
Sweden	2015	45	18	53	66	32	11	..
	2016	43	20	43	74	27	11	..
	2017	47	24	45	83	30	11	..
	2018	45	21	43	90	26	11	..
Switzerland	2015	39	40	33	79	21	9	..
	2016	35	46	28	72	17	9	..
	2017	33	47	28	70	20	10	..
	2018	36	45	28	87	19	10	..
Ukraine	2015	33	22	14	72	29	13	..
	2016	33	23	17	67	25	13	..
	2017	34	21	19	71	24	11	..
	2018	35	23	22	70	28	11	..
United Kingdom	2015	40	42	22	85	32	9	3
	2016	40	44	20	86	26	10	0
	2017	35	36	21	86	29	10	3
	2018	35	37	19	80	30	11	5
Oceania	2015	43	50	32	..	32	10	94
	2016	45	52	35	..	33	11	94
	2017	45	53	35	..	30	13	94
	2018	44	53	35	..	31	13	93

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
50	52	34	7	50	58	12	..	25
57	62	34	8	49	58	13	..	25
49	54	46	7	45	50	14	..	30
46	53	34	7	45	51	11	..	25
46	49	29	20	29	41	18	..	27
46	50	38	17	32	41	28	..	28
46	51	21	18	31	56	12	..	27
43	48	36	16	31	45	21	..	28
3	3	..	..	11	29	36	..	0
4	4	..	..	10	28	28	..	0
5	5	..	6	10	27	34	..	0
7	7	..	6	11	29	31	..	0
25	31	42	8	33	29	29	94	27
26	33	41	6	32	26	31	91	26
26	33	34	7	32	29	25	93	28
28	36	33	5	32	26	31	92	24
33	33	36	..	49	47	38	85	17
35	35	34	..	48	45	42	83	17
33	33	30	..	48	44	42	83	17
34	34	29	..	48	44	43	80	17
47	47	..	..	60	73	41	..	14
40	40	..	..	61	74	43	..	15
50	50	..	..	57	72	37	..	20
44	44	..	..	53	61	44	..	7
31	45	36	11	41	24	19	89	16
32	47	36	13	41	25	21	87	17
33	45	38	13	43	28	21	89	14
36	43	40	19	41	28	17	87	11
20	65	15	13	55	51	38	94	13
22	66	22	13	57	49	44	95	13
21	66	19	13	55	47	37	104	13
21	63	22	12	52	40	43	96	12
52	53	43	28	26	22	17	88	24
53	54	46	17	26	19	22	90	24
56	58	27	15	26	24	12	93	24
58	59	52	21	26	20	20	89	24
55	56	16	..	45	12	53	66	32
54	55	10	..	43	14	43	74	27
55	56	8	..	47	17	45	83	30
48	49	7	..	45	15	43	90	25
30	47	64	9	41	19	32	79	21
26	49	43	9	36	36	28	72	17
26	53	41	10	35	29	27	70	20
25	52	44	10	38	26	27	87	19
9	9	39	8	35	23	14	72	21
19	19	53	34	34	23	17	67	19
20	20	7	10	34	21	19	71	16
14	14	5	2	36	24	22	70	16
32	62	50	14	42	39	20	85	30
30	62	44	13	42	41	18	86	25
24	33	48	15	39	37	18	86	26
25	33	46	16	39	38	17	80	27
28	45	38	11	46	51	32	..	41
27	44	39	11	48	53	35	..	41
30	51	41	13	48	54	35	..	38
31	51	25	15	47	53	35	..	34

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
American Samoa	2015	40	41	..	..	..	11	..
	2016	39	41	..	..	..	9	..
	2017	38	40	..	..	..	13	..
	2018	38	41	..	..	..	11	..
Australia	2015	42	51	19	..	31	10	11
	2016	44	53	21	..	32	11	0
	2017	44	54	22	..	30	13	11
	2018	43	54	21	..	30	13	0
Cook Islands	2015	26	30	..	..	..	12	..
	2016	26	30	..	..	..	13	..
	2017	27	31	..	..	..	16	..
	2018	27	31	..	..	..	20	..
Fiji	2015	34	37	34	..	6	15	..
	2016	33	29	44	..	2	15	..
	2017	32	30	41	..	1	15	..
	2018	33	27	47	..	1	11	..
French Polynesia	2015	32	32	41	..	..	13	..
	2016	30	30	45	..	..	12	..
	2017	30	30	43	..	..	12	..
	2018	30	30	40	..	9	12	..
Guam	2015	39	41	..	..	..	10	..
	2016	39	40	..	..	21	23	..
	2017	45	46	..	..	21	23	..
	2018	44	45	..	..	21	23	..
Kiribati	2015	34	39	..	..	..	19	..
	2016	33	38	..	..	..	19	..
	2017	33	38	..	..	..	19	..
	2018	33	38	..	..	..	19	..
Marshall Islands	2015	27	27	..	..	..	11	..
	2016	26	27	..	..	..	11	..
	2017	26	27	..	..	..	11	..
	2018	26	27	..	..	..	11	..
Micronesia (Fed. States of)	2015	22	24	1	..	..	16	..
	2016	22	24	1	..	..	16	..
	2017	22	24	1	..	..	16	..
	2018	22	23	1	..	16	16	..
Nauru	2015	58	59	..	..	..	13	..
	2016	54	60	..	..	..	6	..
	2017	51	55	..	..	..	19	..
	2018	30	31	..	..	..	16	..
New Caledonia	2015	33	33	50	..	19	11	..
	2016	36	37	34	..	14	13	..
	2017	36	36	53	..	10	25	..
	2018	38	40	46	..	10	16	..
New Zealand	2015	53	45	52	..	39	11	94
	2016	54	39	55	..	39	12	95
	2017	54	46	53	..	35	12	95
	2018	54	41	56	..	34	13	93
Niue	2015	16	18	..	..	..	2	..
	2016	16	18	..	..	..	2	..
	2017	16	18	..	..	..	2	..
	2018	18	18	..	..	..	16	..
Northern Mariana Islands	2015	52	52	..	..	..	..	..
	2016	47	47	..	..	..	..	..
	2017	46	46	..	..	..	..	..
	2018	47	47	..	..	..	..	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	40	41	..	..	11
..	..	..	..	39	41	..	..	9
..	..	..	..	38	40	..	..	13
..	..	..	..	38	41	..	..	11
25	43	..	10	45	51	19	..	31
24	42	..	10	47	54	21	..	31
28	50	..	12	48	55	22	..	29
29	51	..	14	46	54	21	..	26
..	..	..	..	26	30	..	..	12
..	..	..	..	26	30	..	..	13
..	..	..	..	27	31	..	..	16
..	..	..	..	27	31	..	..	20
6	6	..	..	39	48	34	..	9
3	3	..	..	37	37	44	..	5
5	5	..	..	37	40	41	..	5
9	9	..	..	37	35	47	..	5
..	..	..	..	32	32	41	..	13
..	..	..	..	30	30	45	..	12
..	..	..	..	30	30	43	..	12
..	..	..	..	30	30	40	..	12
..	..	..	..	39	41	..	..	9
..	..	..	..	39	40	..	..	23
..	..	..	..	45	46	..	..	23
..	..	..	..	44	45	..	..	23
23	23	..	..	36	41	..	..	19
21	21	..	..	34	41	..	..	19
21	21	..	..	34	41	..	..	19
21	21	..	..	34	41	..	..	19
..	..	..	..	27	27	..	..	11
..	..	..	..	26	27	..	..	11
..	..	..	..	26	27	..	..	11
..	..	..	..	26	27	..	..	11
..	..	..	..	22	24	1	..	16
..	..	..	..	22	24	1	..	16
..	..	..	..	22	24	1	..	16
..	..	..	..	22	23	1	..	16
..	..	..	..	58	59	..	..	13
..	..	..	..	54	60	..	..	6
..	..	..	..	51	55	..	..	19
..	..	..	..	30	31	..	..	16
..	..	..	..	35	35	50	..	18
..	..	..	..	38	40	34	..	14
..	..	..	..	38	39	53	..	13
..	..	..	..	41	43	46	..	13
58	66	15	30	53	43	52	..	71
53	63	15	27	54	36	55	..	71
52	65	15	24	54	44	53	..	70
48	61	15	22	54	39	56	..	69
..	..	..	..	16	18	..	..	2
..	..	..	..	16	18	..	..	2
..	..	..	..	16	18	..	..	2
..	..	..	..	18	18	..	..	16
..	..	..	..	52	52	..	..	..
..	..	..	..	47	47	..	..	..
..	..	..	..	46	46	..	..	..
..	..	..	..	47	47	..	..	..

Table 31**Utilization of installed electricity capacity - by type**

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Palau	2015	33	34	..	..	..	..	..
	2016	27	28	..	..	..	2	..
	2017	27	28	..	..	..	2	..
	2018	27	28	..	..	..	2	..
Papua New Guinea	2015	58	60	45	..	..	17	86
	2016	56	59	45	..	..	17	86
	2017	54	55	45	..	..	17	86
	2018	53	55	39	..	..	13	87
Samoa	2015	35	47	34	..	6	9	..
	2016	33	50	34	..	4	10	..
	2017	33	53	25	..	3	13	..
	2018	33	44	41	..	3	13	..
Solomon Islands	2015	30	30	30	..	..	15	..
	2016	31	32	30	..	..	11	..
	2017	32	33	30	..	..	15	..
	2018	32	33	30	..	..	13	..
Tonga	2015	38	40	..	..	11	23	..
	2016	35	36	..	..	10	22	..
	2017	30	37	..	..	10	8	..
	2018	32	41	..	..	11	8	..
Tuvalu	2015	15	23	..	..	..	5	..
	2016	18	22	..	..	..	11	..
	2017	18	23	..	..	..	11	..
	2018	19	24	..	..	..	12	..
Vanuatu	2015	25	23	67	..	26	16	..
	2016	27	28	48	..	17	17	..
	2017	28	28	64	..	17	19	..
	2018	28	28	62	..	17	22	..
Wallis and Futuna Is.	2015	24	24	16	..	..	10	..
	2016	26	26	17	..	..	10	..
	2017	25	26	19	..	..	10	..
	2018	26	27	19	..	..	10	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
35	35	..	..	33	34	..	..	..
35	35	..	..	27	28	..	..	2
40	40	..	..	26	27	..	..	2
40	40	..	..	26	27	..	..	2
64	67	39	86	44	40	49	..	17
66	70	40	86	40	34	48	..	17
63	64	42	86	40	34	47	..	17
61	65	25	87	40	34	47	..	13
10	..	..	10	35	47	34	..	9
10	..	..	10	33	50	34	..	10
10	..	..	10	33	53	25	..	13
10	..	..	10	33	44	41	..	13
21	21	..	..	31	32	30	..	15
21	21	..	..	33	34	30	..	11
21	21	..	..	33	35	30	..	15
21	21	..	..	34	35	30	..	13
..	..	..	..	38	40	..	..	23
..	..	..	..	35	36	..	..	22
..	..	..	..	30	37	..	..	8
..	..	..	..	32	41	..	..	8
..	..	..	..	15	23	..	..	5
..	..	..	..	18	22	..	..	11
..	..	..	..	18	23	..	..	11
..	..	..	..	19	24	..	..	12
..	..	..	..	25	23	67	..	26
..	..	..	..	27	28	48	..	17
..	..	..	..	28	28	64	..	18
..	..	..	..	28	28	62	..	19
..	..	..	..	24	24	16	..	10
..	..	..	..	26	26	17	..	10
..	..	..	..	25	26	19	..	10
..	..	..	..	26	27	19	..	10

Table 32

Production of electricity - by type
Gigawatt-hours

Table Notes

For this table, **Other** under total producers refers to geothermal, tide, wave, marine, electricity from chemical heat, and other non-specified sources. **Other** under autoproducers refers to nuclear (if any), wind, solar, tide, wave, marine, electricity from chemical heat, and other non-specified sources. **Other** under main activity producers refers to wind, solar, tide, wave, marine, electricity from chemical heat, and other non-specified sources.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description /classification, and xvi to xvii for the descriptions of relevant flows.

Figure 75: World electricity generation by source, 1990-2018

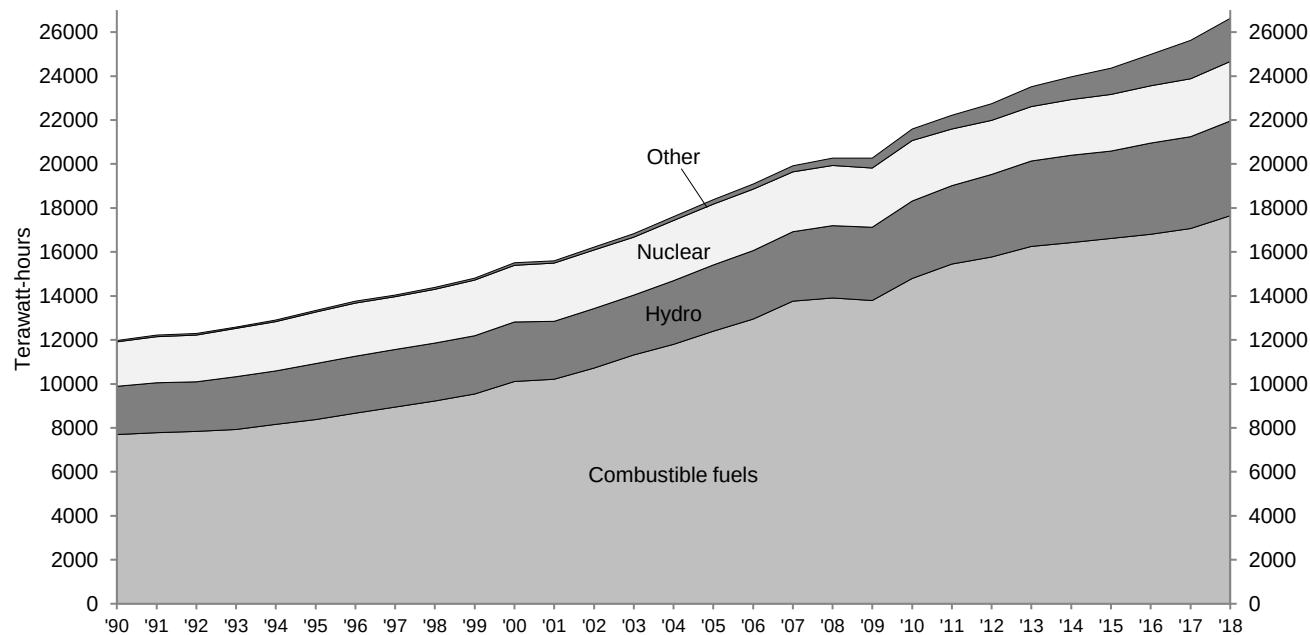


Figure 76: World production of electricity by source and region, 2018

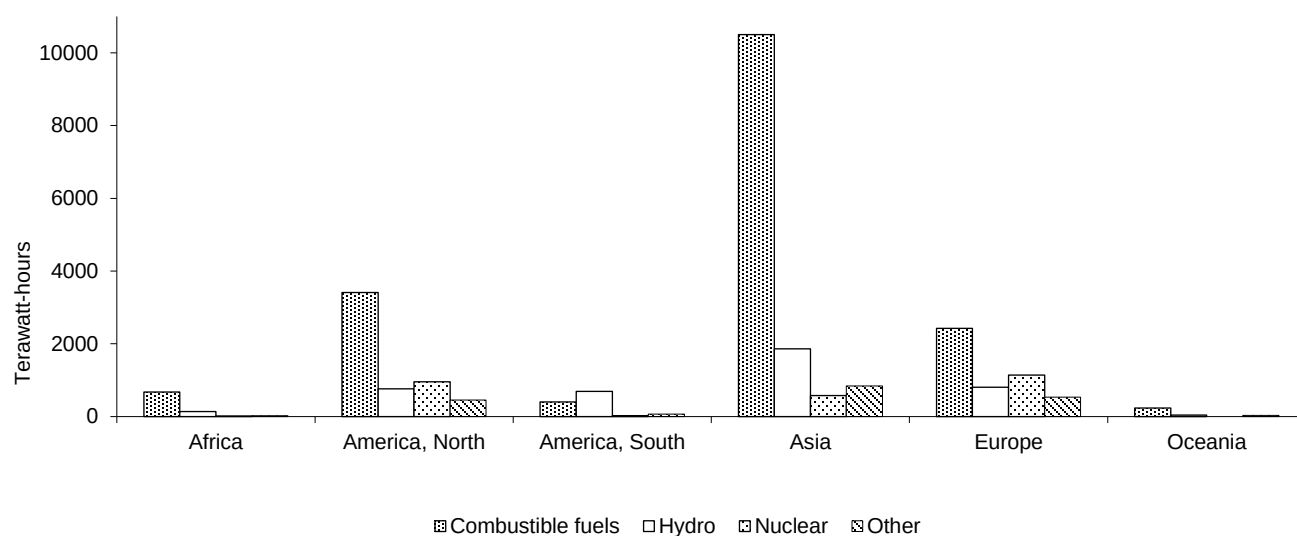


Figure 77: Major countries producing electricity from combustible fuels, 2018

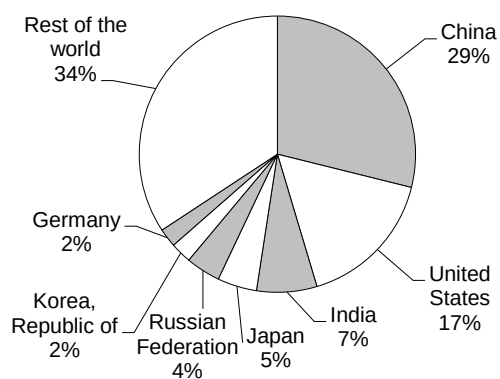


Figure 78: Major countries producing hydro electricity, 2018

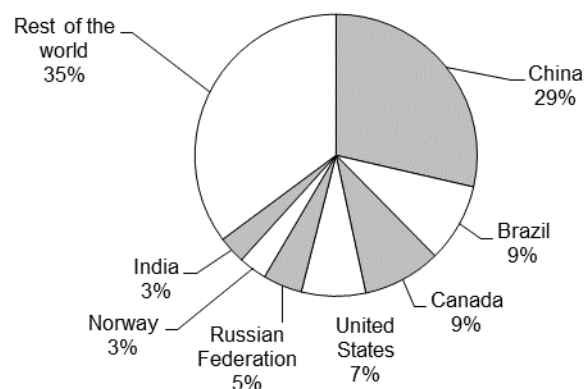


Figure 79: Major countries producing nuclear electricity, 2018

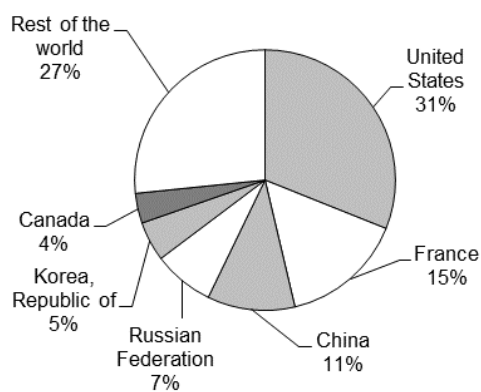


Figure 80: Major countries producing electricity from other sources, 2018

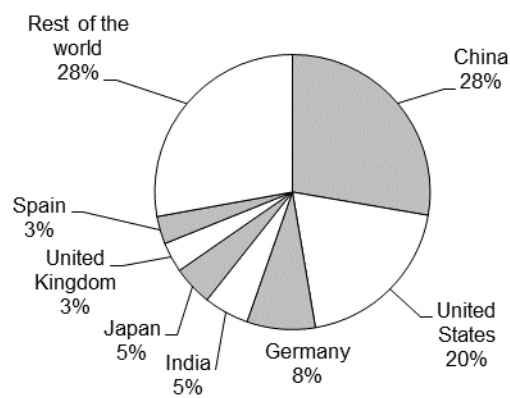


Table 32

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
World	2015	24,363,404	16,614,921	3,977,804	2,571,369	828,054	250,282	120,973
	2016	24,988,266	16,803,964	4,149,665	2,606,892	949,632	319,402	158,711
	2017	25,621,700	17,062,346	4,187,902	2,634,658	1,125,262	439,708	171,824
	2018	26,626,091	17,649,688	4,305,553	2,708,655	1,272,283	565,067	124,845
Africa	2015	785,873	633,570	123,163	12,237	7,847	2,985	6,072
	2016	805,295	645,567	123,309	15,913	10,329	4,120	6,057
	2017	829,432	660,538	129,481	15,743	11,689	5,641	6,340
	2018	854,629	678,673	136,436	11,580	14,230	6,907	6,802
Algeria	2015	68,798	68,576	145	..	19	58	..
	2016	70,839	70,661	145	..	19	14	..
	2017	76,018	75,383	*517	..	*68	*50	..
	2018	76,664	75,880	*638	..	*84	*62	..
Angola	2015	9,783	4,572	5,193	..	..	18	..
	2016	10,379	4,546	5,815	..	..	18	..
	2017	10,737	3,066	7,653	..	..	18	..
	2018	11,753	3,001	8,734	..	..	18	..
Benin	2015	330	324	1	..	..	5	..
	2016	276	266	5	..	..	5	..
	2017	331	325	1	..	..	5	..
	2018	202	197	..	..	..	5	..
Botswana	2015	*2,967	*2,966	..	..	..	1	..
	2016	2,688	2,686	..	..	..	2	..
	2017	3,022	3,020	..	..	..	2	..
	2018	3,105	3,100	..	..	..	5	..
Burkina Faso	2015	999	906	93	..	..	..	..
	2016	973	834	140	..	..	..	..
	2017	1,095	958	128	..	..	9	..
	2018	1,021	875	91	..	..	54	..
Burundi	2015	177	35	137	..	..	5	..
	2016	181	31	143	..	..	6	..
	2017	192	84	100	..	..	8	..
	2018	246	105	133	..	..	8	..
Cabo Verde	2015	421	336	..	..	78	6	..
	2016	444	361	..	..	77	6	..
	2017	492	409	..	..	76	7	..
	2018	*497	*394	..	..	*93	*10	..
Cameroon	2015	7,985	3,616	4,359	..	..	10	..
	2016	7,167	2,782	4,373	..	..	12	..
	2017	8,099	2,993	5,090	..	..	16	..
	2018	8,626	3,584	5,023	..	..	19	..
Central African Rep.	2015	142	*1	141	..	..	0	..
	2016	143	*1	142	..	..	0	..
	2017	145	*1	144	..	..	0	..
	2018	147	*1	146	..	..	0	..
Chad	2015	*228	*228	..	..	..	..	..
	2016	*230	*230	..	..	..	..	..
	2017	*230	*230	..	..	..	..	..
	2018	*234	*234	..	..	..	..	..
Comoros	2015	*53	*53	..	..	..	..	..
	2016	*58	*58	..	..	..	..	..
	2017	*91	*91	..	..	..	..	..
	2018	*98	*98	..	..	..	..	..
Congo	2015	2,770	1,671	1,098	..	..	1	..
	2016	2,953	1,825	1,127	..	..	1	..
	2017	3,473	2,269	1,203	..	..	1	..
	2018	3,509	2,269	1,239	..	..	1	..

Table 32

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
2,097,520	1,855,746	100,482	141,292	22,265,884	14,759,175	3,877,323	2,571,369	1,058,017
2,039,453	1,799,694	81,900	157,860	22,948,813	15,004,271	4,067,765	2,606,892	1,269,885
2,068,903	1,808,162	77,872	182,869	23,552,796	15,254,184	4,110,031	2,634,658	1,553,924
2,185,753	1,917,946	73,339	194,468	24,440,337	15,731,742	4,232,213	2,708,655	1,767,727
46,149	39,208	656	6,284	739,724	594,362	122,507	12,237	10,619
64,290	55,460	574	8,257	741,006	590,108	122,735	15,913	12,249
52,535	40,910	1,013	10,612	776,897	619,628	128,468	15,743	13,057
59,582	46,393	1,018	12,171	795,047	632,281	135,418	11,580	15,769
4,135	4,135	..	..	64,663	64,441	145	..	77
4,764	4,764	..	..	66,075	65,897	145	..	33
5,120	5,120	..	..	70,898	70,263	*517	..	*118
5,437	5,437	..	..	71,227	70,443	*638	..	*146
562	562	..	..	9,221	4,010	5,193	..	18
596	596	..	..	9,783	3,950	5,815	..	18
430	430	..	..	10,307	2,636	7,653	..	18
421	421	..	..	11,332	2,580	8,734	..	18
112	112	..	..	218	212	1	..	5
96	96	..	..	180	170	5	..	5
98	98	..	..	233	227	1	..	5
114	114	..	..	88	83	..	..	5
..	..	..	..	*2,967	*2,966	..	..	1
..	..	..	..	2,688	2,686	..	..	2
..	..	..	..	3,022	3,020	..	..	2
..	..	..	..	3,105	3,100	..	..	5
..	..	..	..	999	906	93	..	..
..	..	..	..	973	834	140	..	..
..	..	..	..	1,095	958	128	..	9
..	..	..	..	1,021	875	91	..	54
*6	*6	..	..	171	29	137	..	5
*7	*7	..	..	174	24	143	..	6
*10	*10	..	..	182	74	100	..	8
*6	*6	..	..	240	99	133	..	8
*1	*1	..	..	420	336	..	..	85
*1	*1	..	..	443	361	..	..	83
*1	*1	..	..	491	408	..	..	83
*1	*1	..	..	*496	*393	..	..	*103
3,237	3,237	..	..	4,748	379	4,359	..	10
2,504	2,504	..	..	4,663	278	4,373	..	12
2,707	2,707	..	..	5,392	286	5,090	..	16
3,291	3,291	..	..	5,335	293	5,023	..	19
..	..	..	..	142	*1	141	..	0
..	..	..	..	143	*1	142	..	0
..	..	..	..	145	*1	144	..	0
..	..	..	..	147	*1	146	..	0
..	..	..	..	*228	*228	..	..	..
..	..	..	..	*230	*230	..	..	..
..	..	..	..	*230	*230	..	..	..
..	..	..	..	*234	*234	..	..	..
..	..	..	..	*53	*53	..	..	..
..	..	..	..	*58	*58	..	..	..
..	..	..	..	*91	*91	..	..	..
..	..	..	..	*98	*98	..	..	..
1,671	1,671	..	..	1,099	..	1,098	..	1
1,825	1,825	..	..	1,128	..	1,127	..	1
2,269	2,269	..	..	1,204	..	1,203	..	1
2,269	2,269	..	..	1,240	..	1,239	..	1

Table 32

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Côte d'Ivoire	2015	8,711	7,359	1,352	..	..	..	..
	2016	10,253	8,724	1,529	..	..	..	..
	2017	10,121	8,074	2,047	..	..	..	..
	2018	10,059	7,097	2,962	..	..	..	..
Dem. Rep. of the Congo	2015	8,953	37	8,916	..	..	..	..
	2016	9,135	36	9,099	..	..	..	..
	2017	9,510	28	9,482	..	..	..	..
	2018	12,067	976	11,064	..	..	27	..
Djibouti	2015	178	178	..	..	..	..	..
	2016	88	88	..	..	..	..	..
	2017	*59	*59	..	..	..	..	..
	2018	*58	*58	..	..	..	..	..
Egypt	2015	180,377	165,347	13,432	..	1,345	253	..
	2016	191,920	176,234	13,460	..	2,058	168	..
	2017	195,150	179,520	12,850	..	2,200	580	..
	2018	202,838	187,341	12,726	..	2,234	537	..
Equatorial Guinea	2015	848	648	*200	..	..	..	..
	2016	*850	*650	*200	..	..	..	..
	2017	*850	*650	*200	..	..	..	..
	2018	*736	*536	*200	..	..	..	..
Eritrea	2015	356	352	..	..	2	2	..
	2016	363	359	..	..	2	2	..
	2017	391	378	..	..	2	11	..
	2018	495	450	..	..	2	43	..
Eswatini	2015	*496	*265	231	..	..	..	..
	2016	388	265	123	..	..	..	..
	2017	414	297	117	..	..	0	..
	2018	519	311	208	..	..	0	..
Ethiopia	2015	10,493	42	9,674	..	759	18	..
	2016	12,596	40	11,753	..	782	21	..
	2017	13,276	40	12,681	..	533	22	..
	2018	13,612	41	13,018	..	533	20	..
Gabon	2015	2,127	1,207	918	..	..	2	..
	2016	2,338	1,383	953	..	..	2	..
	2017	2,277	1,346	929	..	..	2	..
	2018	2,614	1,555	1,057	..	..	*2	..
Gambia	2015	286	283	..	..	0	*4	..
	2016	302	299	..	..	0	*4	..
	2017	317	314	..	..	0	*4	..
	2018	*321	*318	..	..	0	*4	..
Ghana	2015	11,672	5,824	5,845	..	..	3	..
	2016	13,203	7,615	5,561	..	..	27	..
	2017	14,248	8,604	5,616	..	..	28	..
	2018	16,425	10,375	6,017	..	..	33	..
Guinea	2015	1,118	238	881	..	..	..	..
	2016	1,596	512	1,084	..	..	..	..
	2017	1,753	541	1,212	..	..	..	..
	2018	1,914	732	1,182	..	..	..	..
Guinea-Bissau	2015	*58	*58	..	..	..	..	..
	2016	*84	*79	..	..	..	*6	..
	2017	*86	*79	..	..	..	*7	..
	2018	*87	*80	..	..	..	*7	..
Kenya	2015	9,515	1,462	*3,472	..	60	..	4,521
	2016	9,971	1,471	3,960	..	56	..	4,484
	2017	10,129	2,534	2,777	..	61	..	4,756
	2018	11,163	1,673	3,986	..	376	..	5,128

Table 32

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
105	105	..	..	8,606	7,254	1,352	..	..
173	173	..	..	10,080	8,551	1,529	..	..
173	173	..	..	9,948	7,901	2,047	..	..
61	61	..	..	9,998	7,036	2,962	..	..
25	25	0	..	8,928	12	8,916	..	..
24	24	0	..	9,111	12	9,099	..	..
180	22	158	..	9,330	6	9,324	..	..
1,311	971	340	..	10,756	5	10,724	..	27
..	..	..	..	178	178	..	..	..
..	..	..	..	88	88	..	..	..
..	..	..	..	*59	*59	..	..	..
..	..	..	..	*58	*58	..	..	..
*5,502	*5,502	..	..	174,875	159,845	13,432	..	1,598
*5,600	*5,600	..	..	186,320	170,634	13,460	..	2,226
*5,600	*5,600	..	..	189,550	173,920	12,850	..	2,780
6,078	6,078	..	..	196,760	181,263	12,726	..	2,771
..	..	..	..	848	648	*200	..	..
..	..	..	..	*850	*650	*200	..	..
..	..	..	..	*850	*650	*200	..	..
..	..	..	..	*736	*536	*200	..	..
11	11	..	..	345	341	..	..	4
11	11	..	..	352	348	..	..	4
14	14	..	..	377	364	..	..	13
14	14	..	..	481	436	..	..	45
*265	*265	..	..	231	0	231	..	..
265	265	..	..	123	0	123	..	..
297	297	..	0	117	..	117	..	..
311	311	..	0	208	..	208	..	..
38	38	..	..	10,455	4	9,674	..	777
36	36	..	..	12,560	4	11,753	..	803
36	36	..	..	13,240	4	12,681	..	555
36	36	..	..	13,576	5	13,018	..	553
220	218	..	2	1,907	989	918	..	..
226	224	..	2	2,112	1,159	953	..	..
238	231	5	2	2,039	1,115	924	..	..
170	163	5	*2	2,443	1,392	1,052	..	..
*36	*36	..	..	250	246	..	..	*4
*37	*37	..	..	265	262	..	..	*4
*37	*37	..	..	280	277	..	..	*4
*37	*37	..	..	*284	*280	..	..	*4
*180	*180	..	..	11,492	5,644	5,845	..	3
*180	*180	..	..	13,023	7,435	5,561	..	27
*180	*180	..	..	14,068	8,424	5,616	..	28
*180	*180	..	..	16,245	10,195	6,017	..	33
174	174	..	..	945	64	881	..	..
478	478	..	..	1,117	34	1,084	..	..
465	465	..	..	1,288	76	1,212	..	..
619	619	..	..	1,295	114	1,182	..	..
*13	*13	..	..	*45	*45	..	..	..
*18	*18	..	..	*66	*60	..	..	*6
*19	*19	..	..	*67	*60	..	..	*7
*19	*19	..	..	*68	*61	..	..	*7
..	..	..	..	9,515	1,462	*3,472	..	4,580
..	..	..	..	9,971	1,471	3,960	..	4,541
..	..	..	..	10,129	2,534	2,777	..	4,818
127	127	..	..	11,036	1,546	3,986	..	5,504

Table 32

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Lesotho	2015	532	..	532	..	..	..	..
	2016	508	0	508	..	..	..	..
	2017	502	*1	501	..	..	..	..
	2018	517	1	517	..	..	..	..
Liberia	2015	*350	*310	*40	..	..	..	..
	2016	*440	*400	*40	..	..	..	..
	2017	*440	*397	*40	..	..	*3	..
	2018	*444	*318	*122	..	..	*4	..
Libya	2015	37,511	37,503	..	..	..	8	..
	2016	31,420	31,412	..	..	..	8	..
	2017	33,282	33,274	..	..	..	8	..
	2018	34,171	34,163	..	..	..	8	..
Madagascar	2015	1,712	777	935	..	..	0	..
	2016	1,867	980	887	..	..	0	..
	2017	1,971	1,182	789	..	..	0	..
	2018	2,072	1,104	968	..	..	0	..
Malawi	2015	*2,136	*183	*1,953	..	..	..	..
	2016	*2,160	*183	*1,977	..	..	..	..
	2017	*1,991	*183	*1,809	..	..	..	..
	2018	*2,266	*185	*2,081	..	..	..	..
Mali	2015	2,370	1,356	1,012	..	..	2	..
	2016	2,613	1,509	1,102	..	..	2	..
	2017	3,068	*1,935	1,130	..	..	3	..
	2018	*3,261	*2,128	*1,130	..	..	*3	..
Mauritania	2015	975	841	..	..	104	30	..
	2016	1,042	875	..	..	111	57	..
	2017	1,183	1,022	..	..	104	57	..
	2018	1,271	1,023	..	..	104	144	..
Mauritius	2015	2,996	2,845	122	..	3	26	..
	2016	3,042	2,894	100	..	18	30	..
	2017	3,120	2,976	90	..	15	39	..
	2018	3,132	2,943	125	..	15	49	..
Morocco	2015	31,217	25,108	2,282	..	2,519	6	1,302
	2016	32,141	25,776	1,662	..	3,000	401	1,302
	2017	33,192	26,875	1,565	..	3,035	415	1,302
	2018	35,839	27,748	1,998	..	3,841	950	1,302
Mozambique	2015	19,641	2,547	17,093	..	..	1	..
	2016	18,697	3,103	15,592	..	..	2	..
	2017	16,992	2,930	14,060	..	..	2	..
	2018	16,659	2,736	13,921	..	..	2	..
Namibia	2015	1,576	34	1,502	..	1	39	..
	2016	1,479	62	1,359	..	1	57	..
	2017	1,772	66	1,593	..	5	108	..
	2018	1,363	21	1,144	..	18	180	..
Niger	2015	522	511	..	..	..	11	..
	2016	442	428	..	..	..	13	..
	2017	566	552	..	..	..	15	..
	2018	480	447	..	..	..	33	..
Nigeria	2015	32,442	26,697	5,721	..	..	24	..
	2016	33,586	25,408	8,151	..	..	27	..
	2017	34,445	26,670	7,747	..	..	28	..
	2018	36,278	29,792	6,458	..	..	28	..
Rwanda	2015	526	228	284	..	..	14	..
	2016	636	344	278	..	..	14	..
	2017	698	354	328	..	..	16	..
	2018	730	362	350	..	..	18	..

Table 32

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	532	..	532	..	..
..	..	..	..	508	0	508	..	..
..	..	..	..	502	*1	501	..	..
..	..	..	..	517	1	517	..	..
*205	*205	..	..	*145	*105	*40	..	..
*265	*265	..	..	*175	*135	*40	..	..
*280	*280	..	..	*160	*117	*40	..	*3
*210	*210	..	..	*234	*108	*122	..	*4
..	..	..	..	37,511	37,503	..	..	8
..	..	..	..	31,420	31,412	..	..	8
..	..	..	..	33,282	33,274	..	..	8
..	..	..	..	34,171	34,163	..	..	8
*170	*170	..	..	1,542	607	935	..	0
*215	*215	..	..	1,652	765	887	..	0
269	269	..	..	1,702	913	789	..	0
*275	*275	..	..	1,797	829	968	..	0
*183	*178	*5	..	*1,953	*5	*1,948	..	..
*183	*178	*5	..	*1,977	*5	*1,972	..	..
*183	*178	*5	..	*1,809	*5	*1,804	..	..
*185	*180	*5	..	*2,081	*5	*2,076	..	..
*658	*658	..	..	1,712	698	1,012	..	2
*708	*708	..	..	1,905	801	1,102	..	2
*986	*986	..	..	2,082	949	1,130	..	3
*1,178	*1,178	..	..	*2,083	*950	*1,130	..	*3
313	313	..	..	662	528	..	..	134
360	360	..	..	683	515	..	..	168
342	342	..	..	841	680	..	..	161
*346	*346	..	..	925	677	..	..	248
1,738	1,712	..	26	1,258	1,133	122	..	3
1,827	1,782	..	45	1,215	1,112	100	..	4
1,843	1,792	..	51	1,277	1,184	90	..	3
1,781	1,719	..	62	1,350	1,223	125	..	3
1,362	60	..	1,302	29,855	25,048	2,282	..	2,525
1,302	..	..	1,302	30,839	25,776	1,662	..	3,401
1,302	..	..	1,302	31,890	26,875	1,565	..	3,450
1,302	..	..	1,302	34,537	27,748	1,998	..	4,791
170	54	114	1	19,471	2,493	16,978	..	..
77	58	17	2	18,620	3,045	15,575	..	..
323	39	282	2	16,669	2,891	13,778	..	..
19	..	17	2	16,640	2,736	13,904	..	..
..	..	..	..	1,576	34	1,502	..	40
..	..	..	..	1,479	62	1,359	..	58
..	..	..	..	1,772	66	1,593	..	113
..	..	..	..	1,363	21	1,144	..	198
26	15	..	11	496	496	..	..	..
26	13	..	13	415	415	..	..	..
25	10	..	15	541	541	..	..	..
43	*11	..	33	437	437	..	..	..
5,975	5,834	117	24	26,467	20,863	5,604	..	..
5,746	5,552	167	27	27,840	19,856	7,984	..	..
6,015	5,828	159	28	28,430	20,842	7,588	..	..
6,670	6,510	132	28	29,608	23,282	6,326	..	..
*2	*2	..	..	524	226	284	..	14
*2	*2	..	..	634	342	278	..	14
*2	*2	..	..	696	352	328	..	16
*2	*2	..	..	728	360	350	..	18

Table 32

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Sao Tome and Principe	2015	*81	*75	7	..	..	0	..
	2016	86	79	*7	..	..	0	..
	2017	*91	*83	*7	..	..	0	..
	2018	*91	*85	6	..	..	0	..
Senegal	2015	3,818	3,779	..	..	..	4	35
	2016	4,097	4,044	..	..	..	6	47
	2017	4,418	4,270	..	..	..	99	49
	2018	4,502	4,333	..	..	..	80	89
Seychelles	2015	462	454	..	..	7	2	..
	2016	496	487	..	..	7	2	..
	2017	513	503	..	..	7	3	..
	2018	518	507	..	..	7	4	..
Sierra Leone	2015	*261	*71	*189	..	..	1	..
	2016	*303	*84	*219	..	..	1	..
	2017	*309	*84	*219	..	..	6	..
	2018	*164	*80	*78	..	..	*6	..
Somalia	2015	350	350	..	..	..	..	..
	2016	350	350	..	..	..	..	..
	2017	*350	*350	..	..	..	..	..
	2018	*350	*350	..	..	..	..	..
South Africa	2015	249,655	228,825	3,720	12,237	2,500	2,373	..
	2016	255,208	228,523	3,947	15,913	3,722	3,103	..
	2017	257,702	227,635	5,323	15,743	5,132	3,869	..
	2018	256,064	228,082	5,694	11,580	6,467	4,241	..
South Sudan	2015	578	576	..	..	..	2	..
	2016	447	445	..	..	..	2	..
	2017	542	539	..	..	..	3	..
	2018	583	580	..	..	..	3	..
St. Helena and Depend.	2015	11	8	..	..	2	1	..
	2016	12	8	..	..	2	1	..
	2017	11	9	..	..	2	1	..
	2018	12	8	..	..	3	2	..
Sudan	2015	13,158	4,738	8,420	..	..	..	..
	2016	14,540	6,489	8,051	..	..	..	..
	2017	15,659	6,312	9,347	..	..	..	..
	2018	16,374	6,717	9,657	..	..	..	..
Togo	2015	444	383	61	..	..	..	..
	2016	950	742	208	..	..	..	..
	2017	690	485	205	..	..	..	..
	2018	589	389	196	..	..	3	..
Tunisia	2015	19,676	18,904	69	..	448	41	214
	2016	19,808	19,002	45	..	474	63	224
	2017	20,589	19,758	17	..	449	133	232
	2018	21,012	20,085	17	..	453	174	283
Uganda	2015	3,300	247	3,052	..	..	..	..
	2016	3,508	244	3,261	..	..	4	..
	2017	3,854	381	3,447	..	..	25	..
	2018	4,040	405	3,602	..	..	32	..
United Rep. of Tanzania	2015	6,772	4,649	2,108	..	..	15	..
	2016	7,216	4,817	2,366	..	..	33	..
	2017	7,250	4,861	2,350	..	..	39	..
	2018	7,230	4,908	2,234	..	..	88	..
Zambia	2015	13,440	405	13,035	..	..	..	..
	2016	11,695	670	11,025	..	..	..	..
	2017	14,185	1,987	12,198	..	..	..	..
	2018	16,191	3,524	12,666	..	..	1	..

Table 32

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	*81	*75	7	..	0
..	..	..	..	86	79	*7	..	0
..	..	..	..	*91	*83	*7	..	0
..	..	..	..	*91	*85	6	..	0
713	674	..	39	3,105	3,105	..	..	..
858	805	..	53	3,239	3,239	..	..	..
969	821	..	148	3,449	3,449	..	..	..
1,134	965	..	169	3,368	3,368	..	..	..
*85	*85	..	..	378	369	..	..	8
*86	*86	..	..	409	400	..	..	9
*89	*89	..	..	424	414	..	..	10
*90	*90	..	..	428	417	..	..	11
*4	*4	..	..	*257	*67	*189	..	1
*4	*4	..	..	*299	*80	*219	..	1
*4	*4	..	..	*305	*80	*219	..	6
*4	*4	..	..	*160	*76	*78	..	*6
..	..	..	..	350	350	..	..	..
..	..	..	..	350	350	..	..	..
..	..	..	..	*350	*350	..	..	..
..	..	..	..	*350	*350	..	..	..
16,264	11,543	113	4,608	233,391	217,282	3,607	12,237	265
33,452	26,869	91	6,492	221,756	201,654	3,856	15,913	333
20,054	11,256	140	8,658	237,648	216,379	5,183	15,743	343
23,261	13,163	75	10,023	232,803	214,919	5,619	11,580	685
332	331	..	1	246	245	..	..	1
258	257	..	1	189	188	..	..	1
39	37	..	2	503	502	..	..	1
42	40	..	2	541	540	..	..	1
..	..	..	..	11	8	..	..	3
..	..	..	..	12	8	..	..	3
..	..	..	..	11	9	..	..	3
..	..	..	..	12	8	..	..	4
111	111	..	..	13,047	4,627	8,420	..	..
111	111	..	..	14,429	6,378	8,051	..	..
117	117	..	..	15,542	6,195	9,347	..	..
118	118	..	..	16,256	6,599	9,657	..	..
12	12	..	..	432	371	61	..	..
13	13	..	..	937	729	208	..	..
13	13	..	..	677	472	205	..	..
7	4	..	3	582	385	196	..	..
985	730	..	255	18,691	18,174	69	..	448
1,174	887	..	287	18,634	18,115	45	..	474
1,187	822	..	365	19,402	18,936	17	..	449
1,467	1,010	..	457	19,545	19,075	17	..	453
481	174	307	..	2,819	73	2,745	..	..
471	178	294	..	3,037	66	2,967	..	4
414	150	264	..	3,440	231	3,183	..	25
651	207	444	..	3,389	199	3,158	..	32
15	..	..	15	6,757	4,649	2,108	..	..
33	..	..	33	7,183	4,817	2,366	..	..
39	..	..	39	7,211	4,861	2,350	..	..
88	..	..	88	7,142	4,908	2,234	..	..
..	..	..	..	13,440	405	13,035	..	..
..	..	..	..	11,695	670	11,025	..	..
..	..	..	..	14,185	1,987	12,198	..	..
..	..	..	..	16,191	3,524	12,666	..	1

Table 32

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Zimbabwe	2015	9,522	4,583	4,939	..	..	..	..
	2016	7,090	4,175	2,915	..	..	..	..
	2017	7,544	3,575	3,969	..	..	..	..
	2018	9,418	4,369	5,049	..	..	..	..
America, North	2015	5,423,268	3,464,167	708,431	943,674	232,823	39,598	34,575
	2016	5,445,802	3,394,470	733,513	951,914	275,135	56,351	34,420
	2017	5,407,538	3,258,977	782,053	951,043	303,618	77,729	34,118
	2018	5,583,985	3,408,483	765,350	955,735	327,740	93,239	33,438
Anguilla	2015	95	94	..	..	..	0	..
	2016	104	103	..	..	..	*1	..
	2017	80	80	..	..	..	0	..
	2018	87	87	..	..	..	0	..
Antigua and Barbuda	2015	*347	*340	..	..	..	7	..
	2016	*353	*344	..	..	..	9	..
	2017	*353	*344	..	..	..	9	..
	2018	362	349	..	..	..	13	..
Aruba	2015	*932	*793	..	..	*138	..	..
	2016	*947	*802	..	..	*145	..	..
	2017	*978	*835	..	..	*144	..	..
	2018	*983	*808	..	..	*175	..	..
Bahamas	2015	1,998	1,998	..	..	..	..	..
	2016	1,966	1,966	..	..	..	..	..
	2017	*1,987	*1,987	..	..	..	..	..
	2018	*2,280	*2,280	..	..	..	..	..
Barbados	2015	1,043	1,029	..	..	..	14	..
	2016	1,064	1,037	..	..	..	27	..
	2017	1,047	1,009	..	..	..	38	..
	2018	1,055	1,011	..	..	..	44	..
Belize	2015	417	*181	236	..	..	..	..
	2016	414	*153	261	..	..	..	..
	2017	*636	*365	271	..	..	..	..
	2018	*651	*401	250	..	..	..	..
Bermuda	2015	674	674	..	..	..	..	..
	2016	665	665	..	..	..	..	..
	2017	675	675	..	..	..	..	..
	2018	642	642	..	..	..	..	..
Bonaire, St Eustatius, Saba	2015	127	87	..	..	40	..	..
	2016	137	95	..	..	38	*5	..
	2017	142	101	..	..	35	*5	..
	2018	*143	*95	..	..	*43	*5	..
British Virgin Islands	2015	*210	*208	..	..	*1	*1	..
	2016	*212	*211	..	..	*1	*1	..
	2017	*149	*148	..	..	*1	0	..
	2018	*146	*145	..	..	*1	0	..
Canada	2015	657,944	143,856	382,266	101,809	26,964	2,895	154
	2016	663,808	141,715	385,505	101,429	30,930	4,030	199
	2017	662,972	131,719	394,659	101,299	31,511	3,573	211
	2018	654,399	130,508	385,951	100,731	33,183	3,796	230
Cayman Islands	2015	640	640	..	..	..	..	..
	2016	666	666	..	..	..	..	..
	2017	671	671	..	..	..	..	..
	2018	658	658	..	..	..	..	..
Costa Rica	2015	10,812	287	8,067	..	1,080	3	1,376
	2016	10,880	365	8,026	..	1,147	2	1,340
	2017	11,332	222	8,677	..	1,288	28	1,118
	2018	11,498	332	8,343	..	1,799	55	969

Table 32

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
54	54	..	..	9,468	4,529	4,939	..	..
278	278	..	..	6,812	3,897	2,915	..	..
167	167	..	..	7,377	3,408	3,969	..	..
206	206	..	..	9,212	4,163	5,049	..	..
303,896	242,162	37,804	23,930	5,119,373	3,222,006	670,627	943,674	283,066
307,533	244,894	32,405	30,233	5,138,270	3,149,576	701,107	951,914	335,672
321,487	254,335	32,850	34,302	5,086,051	3,004,641	749,203	951,043	381,164
329,960	257,114	32,142	40,704	5,254,025	3,151,369	733,208	955,735	413,713
..	..	..	..	95	94	..	..	0
..	..	..	..	104	103	..	..	*1
..	..	..	..	80	80	..	..	0
..	..	..	..	87	87	..	..	0
*1	*1	..	..	*346	*339	..	..	7
*1	*1	..	..	*352	*343	..	..	9
*1	*1	..	..	*352	*343	..	..	9
*1	*1	..	..	361	348	..	..	13
..	..	..	..	*932	*793	..	..	*138
..	..	..	..	*947	*802	..	..	*145
..	..	..	..	*978	*835	..	..	*144
..	..	..	..	*983	*808	..	..	*175
*76	*76	..	..	1,922	1,922	..	..	..
*76	*76	..	..	1,890	1,890	..	..	..
*75	*75	..	..	*1,912	*1,912	..	..	..
*80	*80	..	..	*2,200	*2,200	..	..	..
17	17	..	..	1,026	1,012	..	..	14
18	18	..	..	1,046	1,020	..	..	27
17	17	..	..	1,030	992	..	..	38
17	17	..	..	1,038	994	..	..	44
*157	*157	..	..	260	*24	236	..	..
*130	*130	..	..	284	*23	261	..	..
*327	*327	..	..	309	*39	271	..	..
*343	*343	..	..	308	*58	250	..	..
*12	*12	..	..	662	662	..	..	..
*12	*12	..	..	653	653	..	..	..
*13	*13	..	..	662	662	..	..	..
*13	*13	..	..	629	629	..	..	..
..	..	..	..	127	87	..	..	40
..	..	..	..	137	95	..	..	43
..	..	..	..	142	101	..	..	40
..	..	..	..	*143	*95	..	..	*48
..	..	..	..	*210	*208	..	..	*2
..	..	..	..	*212	*211	..	..	*2
..	..	..	..	*149	*148	..	..	*1
..	..	..	..	*146	*145	..	..	*1
66,644	32,587	33,671	386	591,300	111,269	348,595	101,809	29,627
61,246	31,392	28,275	1,579	602,562	110,323	357,230	101,429	33,580
63,265	31,272	30,139	1,854	599,707	100,447	364,520	101,299	33,441
59,105	27,486	29,553	2,066	595,294	103,022	356,398	100,731	35,143
..	..	..	..	640	640	..	..	..
..	..	..	..	666	666	..	..	..
..	..	..	..	671	671	..	..	..
..	..	..	..	658	658	..	..	..
3,014	179	1,810	1,024	7,797	108	6,256	..	1,433
2,851	172	1,610	1,070	8,028	193	6,416	..	1,420
210	185	0	25	11,123	37	8,677	..	2,408
219	174	0	45	11,279	159	8,343	..	2,777

Table 32

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Cuba	2015	20,288	20,190	48	..	*21	*29	..
	2016	20,459	20,334	64	..	*21	*39	..
	2017	20,558	20,394	83	..	*21	*60	..
	2018	20,837	20,524	146	..	*44	*124	..
Curaçao	2015	878	737	..	..	124	17	..
	2016	884	735	..	..	130	19	..
	2017	891	703	..	..	169	19	..
	2018	866	613	..	..	234	19	..
Dominica	2015	151	127	24	..	..	..	..
	2016	156	120	36	..	..	..	..
	2017	130	103	27	..	..	..	..
	2018	110	*85	24	..	..	..	..
Dominican Republic	2015	17,922	16,654	945	..	290	32	..
	2016	18,690	16,773	1,519	..	323	75	..
	2017	19,036	16,309	2,196	..	390	140	..
	2018	19,651	17,144	1,780	..	497	230	..
El Salvador	2015	6,065	3,095	1,423	..	..	7	1,540
	2016	6,083	3,139	1,344	..	..	24	1,576
	2017	5,615	2,077	1,704	..	..	265	1,569
	2018	5,402	1,937	1,631	..	..	289	1,545
Greenland	2015	520	97	423	..	..	..	..
	2016	490	89	401	..	..	..	..
	2017	518	130	388	..	..	..	..
	2018	*530	*130	*400	..	..	..	..
Grenada	2015	207	207	..	..	..	0	..
	2016	218	218	..	..	..	0	..
	2017	227	227	..	..	..	0	..
	2018	*231	*231	..	..	..	0	..
Guatemala	2015	11,157	6,769	3,880	..	107	149	252
	2016	11,789	7,122	3,971	..	215	192	289
	2017	12,272	5,816	5,787	..	218	198	253
	2018	13,568	7,572	5,218	..	320	208	250
Haiti	2015	1,038	955	83	..	..	..	..
	2016	1,084	1,013	71	..	..	..	..
	2017	1,056	928	127	..	..	1	..
	2018	1,046	848	197	..	..	1	..
Honduras	2015	9,167	5,745	2,340	..	665	417	..
	2016	9,150	5,345	2,350	..	574	881	..
	2017	9,251	4,568	3,088	..	578	924	93
	2018	9,526	4,045	3,262	..	929	993	297
Jamaica	2015	4,206	3,953	128	..	125	..	..
	2016	4,342	4,002	118	..	207	15	..
	2017	4,360	3,873	154	..	289	44	..
	2018	4,402	3,875	179	..	302	46	..
Mexico	2015	310,712	253,005	30,815	11,577	8,745	239	6,331
	2016	320,565	262,310	30,698	10,567	10,378	464	6,148
	2017	322,063	261,726	31,982	10,883	10,442	1,085	5,945
	2018	335,581	269,256	32,636	13,675	12,875	1,856	5,283
Montserrat	2015	*24	*24	..	..	..	..	..
	2016	*20	*20	..	..	..	..	..
	2017	*19	*19	..	..	..	..	..
	2018	*20	*20	..	..	..	..	..
Nicaragua	2015	4,580	2,740	295	..	865	2	678
	2016	4,591	2,728	426	..	729	2	706
	2017	4,525	2,657	468	..	635	14	751
	2018	4,636	2,599	411	..	801	24	801

Table 32

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
898	898	..	..	19,390	19,292	48	..	*50
949	949	..	..	19,509	19,385	64	..	*60
963	963	..	..	19,595	19,431	83	..	*81
763	763	..	..	20,074	19,761	146	..	*168
203	203	..	..	675	534	..	..	141
160	160	..	..	724	575	..	..	149
74	74	..	..	817	629	..	..	188
114	114	..	..	752	499	..	..	253
*44	*44	..	..	107	83	24	..	..
*44	*44	..	..	112	75	36	..	..
*44	*44	..	..	86	58	27	..	..
*44	*44	..	..	65	41	24	..	..
1,974	1,936	5	32	15,948	14,718	940	..	290
1,962	1,905	6	51	16,728	14,869	1,513	..	347
1,919	1,821	6	92	17,117	14,489	2,190	..	438
2,011	1,856	7	148	17,640	15,288	1,773	..	580
640	563	70	7	5,425	2,532	1,353	..	1,540
742	634	83	24	5,342	2,505	1,261	..	1,576
933	678	85	170	4,682	1,399	1,619	..	1,664
980	737	83	160	4,422	1,200	1,548	..	1,675
..	..	..	..	520	97	423	..	..
..	..	..	..	490	89	401	..	..
..	..	..	..	518	130	388	..	..
..	..	..	..	*530	*130	*400	..	..
1	1	..	..	206	206	..	..	0
2	2	..	..	217	217	..	..	0
2	2	..	..	225	225	..	..	0
3	3	..	..	*228	*228	..	..	0
856	827	28	..	10,302	5,942	3,852	..	508
911	891	20	..	10,878	6,231	3,951	..	696
783	761	22	..	11,490	5,055	5,765	..	669
1,046	1,018	27	..	12,522	6,554	5,191	..	778
44	44	..	..	994	911	83	..	..
37	37	..	..	1,047	976	71	..	..
23	23	..	..	1,033	905	127	..	1
21	21	..	..	1,025	827	197	..	1
883	883	..	..	8,284	4,862	2,340	..	1,082
547	547	..	..	8,603	4,798	2,350	..	1,455
1,040	1,040	..	..	8,211	3,528	3,088	..	1,595
1,401	1,401	..	..	8,125	2,644	3,262	..	2,219
1,678	1,553	..	125	2,528	2,400	128	..	..
1,786	1,564	..	222	2,556	2,438	118	..	..
1,827	1,494	..	333	2,533	2,379	154	..	..
1,841	1,493	..	348	2,561	2,382	179	..	..
47,991	40,620	764	6,607	262,721	212,385	30,051	11,577	8,708
54,364	45,079	893	8,392	266,201	217,231	29,805	10,567	8,598
62,985	52,566	942	9,477	259,078	209,160	31,040	10,883	7,995
67,478	54,376	1,055	12,047	268,103	214,880	31,581	13,675	7,967
..	..	..	..	*24	*24	..	..	..
..	..	..	..	*20	*20	..	..	..
..	..	..	..	*19	*19	..	..	..
..	..	..	..	*20	*20	..	..	..
509	508	1	..	4,071	2,232	294	..	1,545
589	588	1	..	4,002	2,140	425	..	1,437
711	711	0	..	3,814	1,946	468	..	1,400
735	735	0	..	3,901	1,864	411	..	1,626

Table 32

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Panama	2015	10,295	3,604	6,257	..	419	16	..
	2016	10,885	3,666	6,523	..	625	71	..
	2017	11,054	3,141	7,256	..	491	156	9
	2018	11,353	2,657	7,858	..	588	233	18
Puerto Rico	2015	21,160	20,771	56	..	239	94	..
	2016	20,887	20,505	71	..	193	118	..
	2017	16,571	16,212	51	..	149	159	..
	2018	*16,647	*16,420	38	..	108	81	..
Sint Maarten (Dutch part)	2015	*369	*369	..	..	..	..	..
	2016	*376	*376	..	..	..	..	..
	2017	*332	*332	..	..	..	..	..
	2018	*291	*291	..	..	..	..	..
St. Kitts-Nevis	2015	*217	*207	..	..	*8	*2	..
	2016	*228	*217	..	..	8	3	..
	2017	232	221	..	..	8	3	..
	2018	*232	*221	..	..	*8	*3	..
St. Lucia	2015	381	381	..	..	..	..	..
	2016	391	391	..	..	..	..	..
	2017	400	400	..	..	..	..	..
	2018	404	399	..	..	..	5	..
St. Pierre-Miquelon	2015	49	49	..	..	0	..	..
	2016	48	48	..	..	0	..	..
	2017	49	49	..	..	..	..	..
	2018	51	51	..	..	..	..	..
St. Vincent-Grenadines	2015	147	129	17	..	..	1	..
	2016	153	136	16	..	..	1	..
	2017	151	129	20	..	..	1	..
	2018	151	125	24	..	..	2	..
Trinidad and Tobago	2015	10,300	10,296	..	..	..	4	..
	2016	10,011	10,006	..	..	..	5	..
	2017	9,933	9,928	..	..	..	5	..
	2018	9,225	9,220	..	..	..	5	..
Turks and Caicos Islands	2015	*239	*239	..	..	..	..	..
	2016	*250	*250	..	..	..	..	..
	2017	*241	*241	..	..	..	..	..
	2018	*257	*257	..	..	..	..	..
United States	2015	4,317,159	2,962,870	271,129	830,288	192,992	35,635	24,245
	2016	4,322,038	2,886,040	292,113	839,918	229,471	50,334	24,162
	2017	4,286,423	2,770,050	325,114	838,861	257,249	70,980	24,169
	2018	4,455,439	2,912,042	317,004	841,329	275,834	85,184	24,046
United States Virgin Is.	2015	*799	*766	..	..	..	*33	..
	2016	*797	*765	..	..	..	*33	..
	2017	*610	*589	..	..	..	*21	..
	2018	*626	*605	..	..	..	*21	..
America, South	2015	1,165,307	461,883	652,537	21,873	27,331	1,683	1
	2016	1,169,697	432,454	669,002	24,149	40,887	3,204	1
	2017	1,165,211	410,886	675,333	21,827	51,664	5,436	65
	2018	1,186,977	401,816	692,646	22,127	59,969	10,204	214
Argentina	2015	145,363	96,159	41,451	7,139	599	15	..
	2016	146,353	99,479	38,028	*8,285	547	14	..
	2017	145,618	97,257	41,645	6,088	612	16	..
	2018	152,224	102,820	41,430	6,453	1,413	108	..
Bolivia (Plur. State of)	2015	9,034	6,554	2,463	..	12	5	..
	2016	9,313	7,552	1,720	..	35	6	..
	2017	9,627	7,327	2,234	..	60	6	..
	2018	9,883	7,084	2,613	..	59	127	..

Table 32

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
34	34	..	..	10,262	3,570	6,257	..	435
32	32	..	..	10,853	3,634	6,523	..	697
32	32	..	..	11,022	3,109	7,256	..	657
161	161	..	..	11,192	2,496	7,858	..	838
*250	*250	..	..	20,910	20,521	56	..	333
*250	*250	..	..	20,637	20,255	71	..	311
*210	*210	..	..	16,361	16,002	51	..	308
*220	*220	..	..	*16,427	*16,200	38	..	189
..	..	..	..	*369	*369	..	..	..
..	..	..	..	*376	*376	..	..	..
..	..	..	..	*332	*332	..	..	..
..	..	..	..	*291	*291	..	..	..
*1	*1	..	..	*216	*206	..	..	*10
*1	*1	..	..	*227	*216	..	..	11
*1	*1	..	..	231	220	..	..	11
*1	*1	..	..	*231	*220	..	..	*11
..	..	..	..	381	381	..	..	..
..	..	..	..	391	391	..	..	..
..	..	..	..	400	400	..	..	..
..	..	..	..	404	399	..	..	5
..	..	..	..	49	49	..	..	0
..	..	..	..	48	48	..	..	0
..	..	..	..	49	49	..	..	..
..	..	..	..	51	51	..	..	..
0	..	..	0	146	129	17	..	1
0	..	..	0	153	136	16	..	1
1	..	..	1	150	129	20	..	1
1	..	..	1	150	125	24	..	1
85	85	..	..	10,215	10,211	..	..	4
82	82	..	..	9,929	9,924	..	..	5
82	82	..	..	9,851	9,846	..	..	5
76	76	..	..	9,149	9,144	..	..	5
..	..	..	..	*239	*239	..	..	..
..	..	..	..	*250	*250	..	..	..
..	..	..	..	*241	*241	..	..	..
..	..	..	..	*257	*257	..	..	..
177,864	160,682	1,454	15,728	4,139,295	2,802,188	269,675	830,288	237,144
180,721	160,329	1,517	18,875	4,141,317	2,725,711	290,596	839,918	285,092
185,936	161,944	1,656	22,336	4,100,487	2,608,106	323,458	838,861	330,062
193,272	165,980	1,417	25,875	4,262,167	2,746,062	315,587	841,329	359,189
*20	..	..	*20	*779	*766	..	..	13
*19	..	..	*19	*778	*765	..	..	13
*14	..	..	*14	*597	*589	..	..	7
*14	..	..	*14	*612	*605	..	..	7
137,547	114,149	23,254	144	1,027,760	347,733	629,283	21,873	28,871
142,133	118,061	23,915	157	1,027,564	314,393	645,087	24,149	43,936
142,695	120,822	21,524	348	1,022,517	290,063	653,808	21,827	56,818
147,149	123,705	22,726	719	1,039,827	278,112	669,920	22,127	69,669
13,961	13,934	27	..	131,402	82,225	41,424	7,139	614
14,827	14,781	46	..	131,526	84,698	37,982	*8,285	561
14,744	14,698	46	..	130,874	82,559	41,599	6,088	628
14,744	14,698	46	..	137,480	88,122	41,384	6,453	1,521
301	299	2	..	8,733	6,255	2,461	..	17
285	281	4	..	9,028	7,271	1,716	..	41
352	348	4	..	9,275	6,979	2,230	..	66
362	355	7	..	9,521	6,729	2,606	..	186

Table 32

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Brazil	2015	581,228	185,066	359,743	14,734	21,626	59	..
	2016	578,897	148,549	380,911	15,864	33,488	85	..
	2017	589,326	159,476	370,906	15,739	42,373	832	..
	2018	601,396	144,815	388,971	15,674	48,475	3,461	..
Chile	2015	75,387	48,130	23,881	..	2,115	1,261	0
	2016	79,308	50,946	23,274	..	2,449	2,639	0
	2017	79,416	50,602	21,315	..	3,521	3,914	64
	2018	82,313	49,927	23,367	..	3,588	5,217	214
Colombia	2015	78,596	29,951	48,568	..	68	9	..
	2016	76,800	27,644	49,096	..	51	9	..
	2017	79,279	17,828	61,434	..	3	14	..
	2018	79,964	19,967	59,933	..	43	21	..
Ecuador	2015	25,950	12,719	13,096	..	99	36	..
	2016	27,314	11,357	15,834	..	84	39	..
	2017	28,033	7,833	20,089	..	73	37	..
	2018	29,198	8,402	20,678	..	80	38	..
Falkland Is. (Malvinas)	2015	19	14	..	..	5	..	..
	2016	21	15	..	..	6	..	..
	2017	20	14	..	..	5	..	..
	2018	19	14	..	..	5	..	..
Guyana	2015	1,004	999	..	..	0	5	..
	2016	1,081	1,076	..	..	0	5	..
	2017	1,105	1,098	..	..	0	7	..
	2018	1,136	1,125	..	..	0	11	..
Paraguay	2015	55,744	1	55,743	..	..	..	..
	2016	63,771	1	63,770	..	..	..	..
	2017	59,685	2	59,684	..	..	..	..
	2018	59,212	2	59,211	..	..	..	..
Peru	2015	48,277	23,729	23,722	..	596	230	..
	2016	52,720	26,630	24,785	..	1,064	241	..
	2017	52,743	22,265	29,075	..	1,073	330	..
	2018	54,982	21,946	30,737	..	1,502	797	..
Suriname	2015	2,084	1,378	702	..	..	*4	..
	2016	2,027	1,239	783	..	..	*4	..
	2017	2,117	1,187	926	..	..	*4	..
	2018	2,288	1,284	1,000	..	..	*4	..
Uruguay	2015	13,731	3,351	8,266	..	2,065	49	..
	2016	13,886	2,897	7,842	..	2,994	152	..
	2017	14,364	2,803	7,518	..	3,775	269	..
	2018	14,624	2,922	6,557	..	4,732	414	..
Venezuela (Bolivar. Rep.)	2015	128,891	53,832	74,902	..	145	10	1
	2016	118,206	55,068	62,959	..	169	10	1
	2017	103,878	43,194	60,507	..	*169	7	*1
	2018	99,737	41,510	58,150	..	71	6	..
Asia	2015	11,865,703	9,365,434	1,686,307	430,379	238,781	90,614	54,189
	2016	12,389,955	9,603,363	1,781,339	476,522	301,300	135,628	91,802
	2017	13,019,294	9,996,816	1,813,080	507,232	377,255	220,204	104,707
	2018	13,775,576	10,497,115	1,860,758	577,727	469,727	312,875	57,374
Afghanistan	2015	1,339	149	1,190	..	..	..	..
	2016	1,394	155	1,239	..	..	..	..
	2017	1,420	176	1,244	..	..	..	..
	2018	1,266	200	1,066	..	..	..	..
Armenia	2015	7,799	2,801	2,206	2,788	3	1	..
	2016	7,315	2,581	2,350	2,381	2	1	..
	2017	7,765	2,872	2,269	2,620	2	3	..
	2018	7,791	3,376	2,318	2,076	2	19	..

Table 32

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
96,306	75,190	21,070	46	484,922	109,876	338,673	14,734	21,639
98,537	77,063	21,412	62	480,360	71,486	359,499	15,864	33,511
98,179	79,383	18,593	203	491,147	80,093	352,313	15,739	43,002
101,164	81,273	19,330	561	500,232	63,542	369,641	15,674	51,375
6,221	6,174	44	3	69,166	41,956	23,837	..	3,373
6,976	6,815	161	0	72,332	44,131	23,113	..	5,088
7,384	7,338	44	2	72,032	43,264	21,271	..	7,497
6,975	6,910	60	5	75,338	43,017	23,307	..	9,014
8,901	8,775	117	9	69,695	21,176	48,451	..	68
9,290	9,151	130	9	67,510	18,493	48,966	..	51
9,340	9,183	148	9	69,939	8,645	61,286	..	8
10,255	10,085	161	9	69,709	9,882	59,772	..	55
4,194	3,496	697	..	21,756	9,223	12,399	..	135
4,771	4,041	730	..	22,543	7,316	15,104	..	123
5,142	4,061	1,082	..	22,891	3,772	19,008	..	111
5,585	4,211	1,374	..	23,613	4,191	19,304	..	118
*2	*2	..	..	17	12	..	..	5
*2	*2	..	..	19	13	..	..	6
*2	*2	..	..	18	12	..	..	5
*2	*2	..	..	17	12	..	..	5
63	63	..	..	941	935	..	..	5
82	82	..	..	999	994	..	..	5
82	82	..	..	1,022	1,015	..	..	7
82	82	..	..	1,054	1,043	..	..	11
..	..	..	..	55,744	1	55,743	..	..
..	..	..	..	63,771	1	63,770	..	..
..	..	..	..	59,685	2	59,684	..	..
..	..	..	..	59,212	2	59,211	..	..
2,558	1,963	595	..	45,719	21,766	23,127	..	826
2,255	1,606	649	..	50,465	25,024	24,136	..	1,305
2,399	1,674	682	43	50,344	20,591	28,393	..	1,360
2,615	1,821	748	46	52,367	20,125	29,989	..	2,253
1,322	620	702	..	762	757	..	..	*4
1,450	667	783	..	577	573	..	..	*4
1,451	525	926	..	666	662	..	..	*4
1,705	705	1,000	..	*583	*579	..	..	*4
1,604	1,595	..	10	12,126	1,756	8,266	..	2,104
1,612	1,602	..	10	12,274	1,295	7,842	..	3,137
1,651	1,636	..	15	12,713	1,167	7,518	..	4,028
1,768	1,745	..	23	12,857	1,177	6,557	..	5,123
2,114	2,038	..	76	126,777	51,794	74,902	..	80
2,045	1,969	..	76	116,161	53,099	62,959	..	104
1,968	1,892	..	76	101,910	41,302	60,507	..	*101
1,893	1,818	..	75	97,844	39,692	58,150	..	2
1,216,187	1,113,773	27,753	74,662	10,649,515	8,251,661	1,658,554	430,379	308,921
1,116,931	1,023,165	14,204	79,562	11,273,024	8,580,198	1,767,135	476,522	449,168
1,126,943	1,022,779	12,223	91,942	11,892,350	8,974,037	1,800,858	507,232	610,224
1,205,982	1,109,615	6,929	89,438	12,569,594	9,387,500	1,853,829	577,727	750,538
*305	*5	*300	..	1,034	144	890	..	..
*318	*5	*313	..	1,076	150	927	..	..
*322	*8	*314	..	1,098	168	930	..	..
*287	*7	*280	..	979	193	786	..	..
..	..	..	..	7,799	2,801	2,206	2,788	4
..	..	..	..	7,315	2,581	2,350	2,381	3
2	..	..	2	7,763	2,872	2,269	2,620	2
14	..	..	14	7,777	3,376	2,318	2,076	7

Table 32

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Azerbaijan	2015	24,688	23,041	1,637	..	5	5	..
	2016	24,953	22,936	1,959	..	23	35	..
	2017	24,320	22,515	1,746	..	22	37	..
	2018	25,229	23,339	1,768	..	83	39	..
Bahrain	2015	28,461	28,452	..	..	..	9	..
	2016	28,479	28,469	..	..	1	9	..
	2017	29,193	29,183	..	..	*1	*9	..
	2018	29,517	29,507	..	..	*1	*9	..
Bangladesh	2015	59,103	58,287	600	..	6	210	..
	2016	68,909	67,650	1,020	..	6	233	..
	2017	73,249	71,934	1,041	..	6	268	..
	2018	78,612	77,229	1,086	..	6	291	..
Bhutan	2015	7,748	0	7,747	..	..	1	..
	2016	7,954	0	7,953	..	1	1	..
	2017	7,730	0	7,728	..	1	1	..
	2018	6,960	0	6,959	..	1	1	..
Brunei Darussalam	2015	4,200	4,198	..	..	..	2	..
	2016	4,270	4,269	..	..	..	1	..
	2017	4,157	4,155	..	..	..	2	..
	2018	4,294	4,292	..	..	..	2	..
Cambodia	2015	4,397	2,394	2,000	..	..	3	..
	2016	5,594	2,972	2,619	..	..	3	..
	2017	6,998	4,260	2,733	..	..	5	..
	2018	8,173	3,420	4,737	..	..	16	..
China	2015	5,814,573	4,284,188	1,130,270	170,789	185,766	38,776	4,784
	2016	6,145,886	4,437,068	1,193,374	213,287	237,071	61,586	*3,500
	2017	6,530,689	4,662,739	1,194,700	248,100	304,600	117,800	2,750
	2018	7,166,133	5,096,318	1,231,787	294,359	365,971	177,517	181
China, Hong Kong SAR	2015	37,924	37,924	..	..	..	..	..
	2016	38,154	38,154	..	..	..	..	..
	2017	36,970	36,970	..	..	..	..	..
	2018	36,565	36,565	..	..	..	..	..
China, Macao SAR	2015	962	962	..	..	..	..	..
	2016	988	988	..	..	..	..	..
	2017	1,465	1,465	..	..	..	..	..
	2018	656	656	..	..	..	..	..
Cyprus	2015	4,533	4,186	..	..	221	126	..
	2016	4,887	4,515	..	..	226	146	..
	2017	5,004	4,621	..	..	211	172	..
	2018	5,061	4,640	..	..	221	200	..
Georgia	2015	10,833	2,379	8,454	..	..	..	..
	2016	11,574	2,236	9,329	..	9	..	..
	2017	11,531	2,233	9,210	..	88	..	..
	2018	12,149	2,115	9,949	..	84	..	..
India	2015	1,354,382	1,158,338	121,546	37,414	30,045	7,039	..
	2016	1,432,358	1,188,280	122,507	37,916	35,530	12,578	*35,547
	2017	1,490,293	1,217,575	126,271	38,346	38,486	24,613	*45,002
	2018	1,521,785	1,244,959	134,991	37,813	*64,294	*39,728	..
Indonesia	2015	267,287	240,698	17,595	..	..	5	8,989
	2016	233,367	201,209	21,475	..	6	21	10,656
	2017	*283,647	*251,766	18,632	..	*6	29	13,214
	2018	293,203	260,211	19,774	..	..	7	13,211
Iran (Islamic Rep. of)	2015	280,635	263,393	14,090	2,914	221	1	16
	2016	289,116	265,799	16,421	6,620	250	4	22
	2017	307,992	285,012	15,051	7,514	306	85	24
	2018	307,968	284,508	15,051	7,514	585	286	24

Table 32

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
2,137	2,137	..	..	22,551	20,904	1,637	..	10
2,254	2,237	..	17	22,699	20,699	1,959	..	41
2,089	2,070	..	20	22,231	20,445	1,746	..	40
2,096	2,096	..	0	23,133	21,243	1,768	..	122
11,269	11,269	..	..	17,192	17,183	..	..	9
11,423	11,423	..	..	17,056	17,046	..	..	10
11,244	11,244	..	..	17,949	17,939	..	..	*10
11,683	11,683	..	..	17,834	17,824	..	..	*10
16,109	16,109	..	..	42,994	42,178	600	..	216
17,264	17,264	..	..	51,645	50,386	1,020	..	239
17,237	17,237	..	..	56,012	54,697	1,041	..	274
17,244	17,244	..	..	61,368	59,985	1,086	..	297
..	..	..	..	7,748	0	7,747	..	1
..	..	..	..	7,954	0	7,953	..	1
..	..	..	..	7,730	0	7,728	..	2
..	..	..	..	6,960	0	6,959	..	2
462	462	..	..	3,738	3,736	..	..	2
427	427	..	..	3,843	3,842	..	..	1
433	433	..	..	3,724	3,722	..	..	2
440	440	..	..	3,854	3,852	..	..	2
..	..	..	..	4,397	2,394	2,000	..	3
..	..	..	..	5,594	2,972	2,619	..	3
..	..	..	..	6,998	4,260	2,733	..	5
..	..	..	..	8,173	3,420	4,737	..	16
347,448	347,448	..	..	5,467,125	3,936,740	1,130,270	170,789	229,326
359,846	359,846	..	..	5,786,040	4,077,222	1,193,374	213,287	302,157
378,148	378,148	..	..	6,152,541	4,284,591	1,194,700	248,100	425,150
413,311	413,311	..	..	6,752,822	4,683,007	1,231,787	294,359	543,669
..	..	..	..	37,924	37,924	..	..	..
..	..	..	..	38,154	38,154	..	..	..
..	..	..	..	36,970	36,970	..	..	..
..	..	..	..	36,565	36,565	..	..	..
209	209	..	..	753	753	..	..	..
201	201	..	..	787	787	..	..	..
205	205	..	..	1,260	1,260	..	..	..
182	182	..	..	474	474	..	..	..
86	44	..	42	4,447	4,142	..	..	305
98	46	..	52	4,789	4,469	..	..	320
108	47	..	61	4,896	4,574	..	..	322
122	51	..	71	4,939	4,589	..	..	350
..	..	..	..	10,833	2,379	8,454	..	..
..	..	..	..	11,574	2,236	9,329	..	9
..	..	..	..	11,531	2,233	9,210	..	88
..	..	..	..	12,149	2,115	9,949	..	84
*218,948	*215,325	*169	*3,454	1,135,434	943,013	121,377	37,414	33,630
198,432	194,764	129	*3,539	1,233,926	993,516	122,378	37,916	80,116
184,339	180,391	148	*3,800	1,305,954	1,037,184	126,123	38,346	104,301
175,460	172,645	97	*2,718	1,346,325	1,072,314	134,894	37,813	*101,304
110,260	98,471	7,590	4,199	157,027	142,227	10,005	..	4,796
66,909	52,603	7,590	6,716	166,458	148,606	13,885	..	3,967
58,901	43,997	6,207	8,697	*224,746	*207,769	12,425	..	4,552
16,322	16,322	..	..	276,881	243,889	19,774	..	13,218
6,440	6,440	..	..	274,195	256,953	14,090	2,914	238
6,482	6,482	..	..	282,634	259,317	16,421	6,620	276
7,905	7,905	..	..	300,087	277,107	15,051	7,514	415
7,905	7,905	..	..	300,063	276,603	15,051	7,514	895

Table 32

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Iraq	2015	*68,745	*66,116	*2,572	..	..	57	..
	2016	80,087	76,659	3,371	..	..	57	..
	2017	83,947	81,714	2,176	..	..	57	..
	2018	82,507	80,312	1,818	..	..	377	..
Israel	2015	64,226	63,080	24	..	7	1,115	..
	2016	66,976	65,432	0	..	0	1,544	..
	2017	67,675	65,742	0	..	180	1,511	242
	2018	68,893	66,977	0	..	183	1,574	159
Japan	2015	1,058,748	894,376	91,270	9,437	5,580	34,802	23,283
	2016	1,061,874	883,161	85,666	18,060	6,166	45,761	23,060
	2017	1,071,200	862,526	91,060	32,912	6,490	55,068	23,144
	2018	1,057,755	812,737	88,348	64,929	7,481	62,668	21,592
Jordan	2015	19,012	18,834	53	..	123	2	..
	2016	*19,627	*18,704	42	..	391	491	..
	2017	19,432	18,354	38	..	449	591	..
	2018	18,859	17,293	23	..	707	836	..
Kazakhstan	2015	106,468	97,020	9,269	..	132	47	..
	2016	106,626	94,644	11,620	..	274	88	..
	2017	103,128	91,485	11,210	..	339	94	..
	2018	107,060	96,187	10,330	..	427	116	..
Korea, Dem.Ppl's.Rep.	2015	13,748	3,737	10,000	..	..	11	..
	2016	16,939	4,126	12,800	..	..	13	..
	2017	14,915	3,001	11,900	..	..	14	..
	2018	15,431	2,616	12,800	..	..	15	..
Korea, Republic of	2015	552,697	375,110	5,796	164,762	1,342	3,975	1,712
	2016	562,603	385,386	6,634	161,995	1,683	5,123	1,782
	2017	566,881	400,148	7,006	148,427	2,169	7,057	2,074
	2018	590,108	435,290	7,270	133,505	2,465	9,208	2,370
Kuwait	2015	68,288	68,288	..	..	..	..	..
	2016	70,085	70,085	..	..	..	0	..
	2017	72,790	72,788	..	..	..	2	..
	2018	74,107	74,103	..	..	..	4	..
Kyrgyzstan	2015	13,030	1,930	11,100	..	..	..	..
	2016	13,262	1,768	11,494	..	..	..	..
	2017	15,514	1,311	14,203	..	..	..	..
	2018	15,728	1,410	14,318	..	..	..	..
Lao People's Dem. Rep.	2015	16,730	2,476	14,252	..	..	2	..
	2016	25,068	7,120	17,946	..	..	2	..
	2017	31,550	*11,683	19,858	..	..	9	..
	2018	*34,410	*12,555	*21,844	..	..	*12	..
Lebanon	2015	20,720	20,226	479	..	..	15	..
	2016	21,457	21,047	382	..	..	28	..
	2017	23,411	22,955	415	..	..	41	..
	2018	23,150	22,754	348	..	..	48	..
Malaysia	2015	150,123	135,926	13,924	..	..	273	..
	2016	156,665	136,336	20,019	..	..	310	..
	2017	164,509	137,599	26,580	..	..	330	..
	2018	170,578	143,621	26,325	..	..	632	..
Maldives	2015	619	611	..	..	2	6	..
	2016	672	660	..	..	2	10	..
	2017	725	709	..	..	2	14	..
	2018	772	756	..	..	2	14	..
Mongolia	2015	5,513	5,513	..	..	..	..	..
	2016	5,667	5,667	..	..	..	..	..
	2017	6,027	6,027	..	..	..	..	..
	2018	6,535	6,535	..	..	..	..	..

Table 32

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
57	..	..	57	*68,688	*66,116	*2,572	..	..
57	..	..	57	80,030	76,659	3,371	..	..
57	..	..	57	83,890	81,714	2,176	..	..
377	..	..	377	82,130	80,312	1,818	..	..
3,743	2,619	9	1,115	60,483	60,461	15	..	7
4,069	2,525	0	1,544	62,907	62,907	0	..	0
4,266	2,333	0	1,933	63,409	63,409	0	..	0
5,047	3,131	0	1,916	63,846	63,846	0	..	0
234,496	156,911	16,469	61,116	824,252	737,465	74,801	9,437	2,549
148,111	83,656	3,747	60,708	913,763	799,505	81,919	18,060	14,279
151,775	81,304	2,704	67,767	919,425	781,222	88,356	32,912	16,935
161,782	86,133	3,290	72,359	895,973	726,604	85,058	64,929	19,382
471	471	..	..	18,540	18,363	53	..	125
*200	*200	..	..	*19,427	*18,504	42	..	882
*200	*200	..	..	19,232	18,154	38	..	1,040
*139	*139	..	..	18,720	17,154	23	..	1,543
1	..	..	1	106,467	97,020	9,269	..	178
1	..	..	1	106,625	94,644	11,620	..	361
1	..	..	1	103,127	91,485	11,210	..	432
1	..	..	1	107,059	96,187	10,330	..	542
..	..	..	..	13,748	3,737	10,000	..	11
..	..	..	..	16,939	4,126	12,800	..	13
..	..	..	..	14,915	3,001	11,900	..	14
..	..	..	..	15,431	2,616	12,800	..	15
29,862	29,219	..	643	522,835	345,891	5,796	164,762	6,386
35,013	34,224	..	789	527,590	351,162	6,634	161,995	7,799
33,652	32,687	..	965	533,229	367,461	7,006	148,427	10,335
35,724	34,601	..	1,123	554,384	400,689	7,270	133,505	12,920
..	..	..	..	68,288	68,288	..	..	..
0	..	..	0	70,085	70,085	..	..	..
2	..	..	2	72,788	72,788	..	..	..
4	..	..	4	74,103	74,103	..	..	..
24	24	..	..	13,006	1,906	11,100	..	..
26	26	..	..	13,236	1,742	11,494	..	..
15	15	..	..	15,499	1,296	14,203	..	..
39	39	..	..	15,689	1,371	14,318	..	..
..	..	..	..	16,730	2,476	14,252	..	2
..	..	..	..	25,068	7,120	17,946	..	2
..	..	..	..	31,550	*11,683	19,858	..	9
..	..	..	..	*34,410	*12,555	*21,844	..	*12
8,467	8,452	..	15	12,253	11,774	479	..	..
8,397	8,369	..	28	13,060	12,678	382	..	..
8,913	8,872	..	41	14,498	14,083	415	..	..
7,916	7,868	..	48	15,234	14,886	348	..	..
4,986	4,986	..	..	145,137	130,940	13,924	..	273
6,223	6,223	..	..	150,442	130,113	20,019	..	310
5,252	5,247	5	0	159,257	132,352	26,575	..	330
7,163	7,104	0	59	163,415	136,517	26,325	..	573
*225	*225	..	..	394	386	..	..	8
*240	*240	..	..	432	420	..	..	12
*260	*260	..	..	465	449	..	..	16
*280	*280	..	..	492	476	..	..	16
..	..	..	..	5,513	5,513	..	..	..
..	..	..	..	5,667	5,667	..	..	..
..	..	..	..	6,027	6,027	..	..	..
..	..	..	..	6,535	6,535	..	..	..

Table 32

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Myanmar	2015	15,970	6,463	9,507	..	..	..	..
	2016	17,867	8,123	9,744	..	..	..	..
	2017	20,056	8,865	11,191	..	..	..	..
	2018	26,714	11,878	14,826	..	..	10	..
Nepal	2015	3,460	..	3,453	..	6	1	..
	2016	4,244	..	4,237	..	6	1	..
	2017	4,639	0	4,632	..	6	1	..
	2018	4,913	0	4,898	..	14	1	..
Oman	2015	32,762	32,758	..	..	..	4	..
	2016	34,232	34,228	..	..	..	4	..
	2017	36,130	36,126	..	..	..	4	..
	2018	37,671	37,667	..	..	..	4	..
Other Asia	2015	258,173	211,796	7,505	36,471	1,526	875	..
	2016	264,137	220,031	9,856	31,661	1,457	1,132	..
	2017	270,288	235,648	8,780	22,446	1,722	1,692	..
	2018	275,577	235,631	7,839	27,682	1,686	2,739	..
Pakistan	2015	110,128	70,556	32,867	5,804	461	..	440
	2016	115,502	74,697	34,573	4,602	791	207	632
	2017	123,533	81,447	32,132	6,867	1,422	654	1,011
	2018	134,981	93,545	27,729	9,849	2,124	714	1,020
Philippines	2015	82,905	62,292	8,682	..	748	139	11,044
	2016	91,789	70,519	8,128	..	975	1,097	11,070
	2017	95,747	73,554	9,628	..	1,094	1,201	10,270
	2018	100,123	77,885	9,401	..	1,153	1,249	10,435
Qatar	2015	41,499	41,499	..	..	..	..	..
	2016	42,307	42,307	..	..	..	..	..
	2017	45,555	45,555	..	..	..	..	..
	2018	47,913	47,913	..	..	..	..	..
Saudi Arabia	2015	338,331	338,330	..	..	..	1	..
	2016	345,104	345,103	..	..	..	1	..
	2017	355,079	355,075	..	..	4	1	..
	2018	343,778	343,773	..	..	*4	*1	..
Singapore	2015	50,341	50,272	..	..	..	69	..
	2016	51,733	51,587	..	..	..	146	..
	2017	52,394	52,225	..	..	..	169	..
	2018	53,074	52,905	..	..	..	169	..
Sri Lanka	2015	13,227	6,854	5,969	..	344	60	..
	2016	14,363	9,721	4,221	..	347	75	..
	2017	15,004	10,381	4,039	..	367	217	..
	2018	15,985	9,072	6,401	..	326	186	..
State of Palestine	2015	515	506	..	..	..	9	..
	2016	537	495	..	..	..	43	..
	2017	546	501	..	..	..	45	..
	2018	420	360	..	..	..	60	..
Syrian Arab Republic	2015	17,982	17,569	413	..	..	..	..
	2016	18,202	17,273	929	..	..	..	..
	2017	18,412	17,658	754	..	..	..	..
	2018	18,210	17,456	754	..	..	..	..
Tajikistan	2015	17,162	302	16,860	..	..	..	..
	2016	17,232	608	16,624	..	..	..	..
	2017	18,144	1,011	17,133	..	..	..	..
	2018	19,742	1,348	18,394	..	..	..	..
Thailand	2015	176,488	170,028	3,752	..	329	2,378	1
	2016	187,554	180,304	3,527	..	345	3,377	1
	2017	181,713	171,366	4,694	..	1,109	4,543	1
	2018	182,296	168,552	7,565	..	1,641	4,537	1

Table 32

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
*1,814	*1,136	*678	..	14,156	5,327	8,829	..	..
3,477	2,888	589	..	14,390	5,235	9,155	..	..
1,878	1,218	*661	..	18,178	7,647	10,531	..	..
*2,159	*1,459	*700	..	24,555	10,419	14,126	..	10
154	..	154	..	3,306	..	3,299	..	7
155	..	155	..	4,089	..	4,082	..	7
156	..	156	..	4,483	0	4,476	..	7
160	..	160	..	4,753	0	4,738	..	15
..	..	..	..	32,762	32,758	..	..	4
..	..	..	..	34,232	34,228	..	..	4
..	..	..	..	36,130	36,126	..	..	4
..	..	..	..	37,671	37,667	..	..	4
37,331	36,501	..	830	220,842	175,295	7,505	36,471	1,571
36,650	35,570	..	1,080	227,487	184,461	9,856	31,661	1,509
35,742	34,141	..	1,601	234,546	201,507	8,780	22,446	1,813
43,295	40,659	..	2,636	232,282	194,972	7,839	27,682	1,789
2,614	2,174	..	440	107,514	68,382	32,867	5,804	461
2,313	1,681	..	632	113,189	73,016	34,573	4,602	998
2,726	1,715	..	1,011	120,807	79,732	32,132	6,867	2,076
2,982	1,962	..	1,020	131,999	91,583	27,729	9,849	2,838
*492	*475	*17	..	82,413	61,818	8,665	..	11,931
*991	*974	*17	..	90,798	69,544	8,111	..	13,143
*1,376	*1,359	*17	..	94,371	72,195	9,611	..	12,565
*358	*341	*17	..	99,765	77,544	9,384	..	12,837
38,998	38,998	..	..	2,501	2,501	..	..	..
39,757	39,757	..	..	2,550	2,550	..	..	..
42,813	42,813	..	..	2,742	2,742	..	..	..
46,380	46,380	..	..	1,533	1,533	..	..	..
74,821	74,821	..	..	263,510	263,509	..	..	1
84,490	84,490	..	..	260,614	260,613	..	..	1
90,143	90,143	..	..	264,936	264,932	..	..	4
151,161	151,161	..	..	192,617	192,612	..	..	*5
3,240	3,240	..	..	47,100	47,031	..	..	69
3,520	3,520	..	..	48,212	48,066	..	..	146
3,990	3,990	..	..	48,404	48,235	..	..	169
4,732	4,732	..	..	48,341	48,172	..	..	169
1,181	57	1,065	59	12,046	6,796	4,904	..	345
902	91	739	73	13,461	9,630	3,482	..	349
1,184	86	964	134	13,821	10,296	3,075	..	450
1,409	87	1,232	89	14,577	8,985	5,169	..	423
155	151	..	5	360	355	..	..	5
177	156	..	21	360	339	..	..	21
154	132	..	23	392	369	..	..	23
137	107	..	30	284	254	..	..	30
599	599	..	..	17,383	16,970	413	..	..
646	646	..	..	17,556	16,627	929	..	..
717	717	..	..	17,695	16,941	754	..	..
672	672	..	..	17,538	16,784	754	..	..
..	..	..	..	17,162	302	16,860	..	..
..	..	..	..	17,232	608	16,624	..	..
..	..	..	..	18,144	1,011	17,133	..	..
..	..	..	..	19,742	1,348	18,394	..	..
35,773	33,704	..	2,069	140,715	136,324	3,752	..	639
51,856	48,882	..	2,974	135,698	131,422	3,527	..	749
55,722	51,715	..	4,007	125,991	119,651	4,694	..	1,646
64,083	60,081	..	4,002	118,213	108,471	7,565	..	2,177

Table 32

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Timor-Leste	2015	353	350	2	..	..	1	..
	2016	415	413	2	..	..	1	..
	2017	430	427	2	..	..	1	..
	2018	453	450	2	..	..	1	..
Turkey	2015	261,783	178,871	67,146	..	11,652	194	3,920
	2016	274,408	185,085	67,231	..	15,517	1,043	5,532
	2017	297,277	211,291	58,219	..	17,903	2,889	6,975
	2018	304,801	208,733	59,938	..	19,949	7,800	8,381
Turkmenistan	2015	22,534	22,534	..	..	..	..	..
	2016	22,534	22,534	..	..	..	..	..
	2017	22,534	22,534	..	..	..	..	..
	2018	22,534	22,534	..	..	..	..	..
United Arab Emirates	2015	127,366	127,075	..	..	..	291	..
	2016	129,596	129,287	..	..	..	309	..
	2017	134,553	133,761	..	..	..	792	..
	2018	135,997	134,694	..	..	..	1,303	..
Uzbekistan	2015	57,414	50,589	6,825	..	..	0	..
	2016	58,634	51,773	6,860	..	..	0	..
	2017	60,323	52,393	7,930	..	..	1	..
	2018	62,408	56,510	5,897	..	..	0	..
Viet Nam	2015	163,494	105,979	57,254	..	*261	..	..
	2016	181,653	116,244	65,188	..	221	..	..
	2017	198,499	109,354	88,875	..	270	..	..
	2018	213,121	128,576	84,205	..	317	23	..
Yemen	2015	6,288	6,178	..	..	..	110	..
	2016	5,105	4,958	..	..	..	147	..
	2017	4,309	4,126	..	..	..	183	..
	2018	3,609	3,151	..	..	..	458	..
Europe	2015	4,815,525	2,449,465	767,429	1,163,206	307,367	110,253	17,806
	2016	4,864,648	2,487,776	799,310	1,138,394	307,397	113,686	18,085
	2017	4,885,379	2,495,267	744,413	1,138,813	366,300	122,369	18,217
	2018	4,906,761	2,425,683	806,079	1,141,486	383,330	131,605	18,577
Albania	2015	5,895	..	5,895	..	..	..	..
	2016	7,136	..	7,136	..	..	..	..
	2017	4,526	..	4,526	..	..	..	..
	2018	8,552	..	8,552	..	..	..	..
Andorra	2015	100	14	86	..	..	0	..
	2016	99	14	84	..	..	0	..
	2017	*106	17	*88	..	..	1	..
	2018	*139	20	*118	..	..	*1	..
Austria	2015	65,299	18,916	40,591	..	4,840	937	15
	2016	68,308	18,953	43,009	..	5,235	1,096	15
	2017	71,325	21,296	42,175	..	6,572	1,269	13
	2018	68,597	19,900	41,216	..	6,030	1,438	13
Belarus	2015	34,082	33,941	107	..	26	8	..
	2016	33,566	33,321	142	..	75	28	..
	2017	34,515	33,924	405	..	97	89	..
	2018	38,927	38,386	324	..	99	118	..
Belgium	2015	69,829	33,208	1,418	26,103	5,574	3,056	470
	2016	85,813	31,744	1,489	43,523	5,438	3,095	524
	2017	86,775	32,781	1,397	42,227	6,513	3,307	550
	2018	75,095	33,315	1,329	28,597	7,465	3,902	487
Bosnia and Herzegovina	2015	15,629	10,078	5,551	..	..	..	..
	2016	17,767	12,102	5,641	..	..	24	..
	2017	16,439	12,431	3,987	..	..	21	..
	2018	19,160	12,517	6,519	..	103	21	..

Table 32

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	353	350	2	..	1
..	..	..	..	415	413	2	..	1
..	..	..	..	430	427	2	..	1
..	..	..	..	453	450	2	..	1
18,620	16,892	1,222	506	243,163	161,979	65,924	..	15,260
20,662	18,635	845	1,182	253,746	166,450	66,386	..	20,910
20,285	17,683	967	1,635	276,992	193,608	57,252	..	26,132
19,917	16,334	1,073	2,510	284,884	192,399	58,865	..	33,620
..	..	..	..	22,534	22,534	..	..	..
..	..	..	..	22,534	22,534	..	..	..
..	..	..	..	22,534	22,534	..	..	..
..	..	..	..	22,534	22,534	..	..	..
..	..	..	..	127,366	127,075	..	..	291
..	..	..	..	129,596	129,287	..	..	309
..	..	..	..	134,553	133,761	..	..	792
..	..	..	..	135,997	134,694	..	..	1,303
..	..	..	..	57,414	50,589	6,825	..	0
..	..	..	..	58,634	51,773	6,860	..	0
..	..	..	..	60,323	52,393	7,930	..	1
..	..	..	..	62,408	56,510	5,897	..	0
3,954	3,872	*80	*2	159,540	102,107	57,174	..	*259
4,914	4,832	*80	*2	176,739	111,412	65,108	..	219
4,282	4,200	*80	*2	194,217	105,154	88,795	..	268
*4,282	*4,200	*80	*2	208,839	124,376	84,125	..	338
437	327	..	110	5,851	5,851	..	..	..
429	282	..	147	4,676	4,676	..	..	..
448	265	..	183	3,861	3,861	..	..	..
716	258	..	458	2,893	2,893	..	..	..
364,330	322,891	10,660	30,779	4,451,196	2,126,574	756,769	1,163,206	404,647
379,527	335,784	10,443	33,300	4,485,120	2,151,992	788,867	1,138,394	405,867
391,499	343,977	9,906	37,615	4,493,880	2,151,290	734,507	1,138,813	469,271
406,443	354,349	10,311	41,783	4,500,318	2,071,334	795,768	1,141,486	491,730
..	..	..	..	5,895	..	5,895	..	..
..	..	..	..	7,136	..	7,136	..	..
..	..	..	..	4,526	..	4,526	..	..
..	..	..	..	8,552	..	8,552	..	..
..	..	..	..	100	14	86	..	0
..	..	..	..	99	14	84	..	0
..	..	..	..	*106	17	*88	..	1
..	..	..	..	*139	20	*118	..	*1
7,844	7,340	489	15	57,455	11,576	40,102	..	5,777
7,876	7,334	527	15	60,432	11,619	42,482	..	6,331
8,211	7,720	478	13	63,114	13,576	41,697	..	7,841
7,987	7,500	474	13	60,610	12,400	40,742	..	7,468
3,406	3,387	6	13	30,676	30,554	101	..	21
3,434	3,409	14	11	30,132	29,912	128	..	92
3,773	3,717	9	47	30,742	30,207	396	..	139
3,960	3,876	8	76	34,967	34,510	316	..	141
10,038	6,511	..	3,527	59,791	26,697	1,418	26,103	5,573
10,479	6,859	..	3,620	75,334	24,885	1,489	43,523	5,437
11,474	7,615	..	3,859	75,301	25,166	1,397	42,227	6,511
12,164	7,748	..	4,416	62,931	25,567	1,329	28,597	7,438
425	425	..	..	15,204	9,653	5,551	..	..
394	394	..	..	17,373	11,708	5,641	..	24
441	441	..	..	15,998	11,990	3,987	..	21
438	438	..	..	18,722	12,079	6,519	..	124

Table 32

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Bulgaria	2015	49,228	24,840	6,147	15,383	1,452	1,383	23
	2016	45,277	22,088	4,568	15,776	1,425	1,386	34
	2017	45,612	23,633	3,493	15,545	1,504	1,403	34
	2018	46,837	22,606	5,423	16,125	1,318	1,343	22
Croatia	2015	11,403	3,994	6,556	..	796	57	..
	2016	12,820	4,682	7,058	..	1,014	66	..
	2017	11,986	5,195	5,508	..	1,204	79	..
	2018	13,632	4,435	7,785	..	1,335	75	2
Czechia	2015	83,892	51,063	3,071	26,841	573	2,264	80
	2016	83,309	53,279	3,202	24,104	497	2,131	96
	2017	87,049	52,782	3,040	28,340	591	2,193	103
	2018	88,032	52,339	2,679	29,921	609	2,359	125
Denmark	2015	28,942	14,187	18	..	14,133	604	..
	2016	30,541	16,996	19	..	12,782	744	..
	2017	31,042	15,493	18	..	14,780	751	..
	2018	30,377	15,510	15	..	13,899	953	..
Estonia	2015	10,398	9,656	27	..	715	..	..
	2016	12,186	11,547	35	..	594	10	..
	2017	12,918	12,155	26	..	723	14	..
	2018	12,360	11,678	15	..	636	31	..
Faeroe Islands	2015	314	126	133	..	56	..	..
	2016	317	159	106	..	52	..	..
	2017	334	163	111	..	60	..	..
	2018	352	180	108	..	64	..	..
Finland	2015	68,599	25,999	16,769	23,245	2,327	11	248
	2016	68,757	26,399	15,799	23,203	3,068	22	266
	2017	67,523	25,030	14,772	22,477	4,795	48	401
	2018	70,263	27,959	13,301	22,793	5,839	90	281
France	2015	579,542	51,131	60,514	437,428	21,421	7,754	1,294
	2016	564,181	64,098	65,685	403,195	21,381	8,660	1,162
	2017	561,935	72,871	55,135	398,359	24,609	9,585	1,376
	2018	581,943	57,967	70,590	412,942	28,600	10,569	1,275
Germany	2015	648,310	410,318	24,898	91,786	80,624	38,726	1,958
	2016	650,450	419,596	26,135	84,634	79,924	38,098	2,063
	2017	653,723	404,286	26,155	76,324	105,693	39,401	1,864
	2018	643,159	385,531	24,143	76,005	109,951	45,784	1,745
Gibraltar	2015	224	224	..	..	..	..	..
	2016	214	214	..	..	..	..	0
	2017	180	180	..	..	..	..	0
	2018	215	215	..	..	..	..	0
Greece	2015	51,874	37,203	6,150	..	4,621	3,900	..
	2016	54,439	39,798	5,565	..	5,146	3,930	..
	2017	55,266	41,698	4,040	..	5,537	3,991	..
	2018	53,263	37,412	5,760	..	6,300	3,791	..
Guernsey	2015	157	157	..	..	..	..	..
	2016	87	87	..	..	..	..	..
	2017	77	77	..	..	..	..	..
	2018	54	54	..	..	..	..	..
Hungary	2015	30,360	13,395	234	15,834	693	141	63
	2016	31,902	14,583	259	16,054	684	244	78
	2017	32,885	15,377	220	16,098	758	349	83
	2018	32,004	14,671	222	15,733	607	620	151
Iceland	2015	18,799	4	13,781	..	11	..	5,003
	2016	18,550	3	13,470	..	9	..	5,068
	2017	19,239	2	14,059	..	8	..	5,170
	2018	19,830	2	13,814	..	4	..	6,010

Table 32

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
388	365	..	23	48,840	24,475	6,147	15,383	2,835
491	457	..	34	44,786	21,631	4,568	15,776	2,811
687	653	..	34	44,925	22,980	3,493	15,545	2,907
707	685	..	22	46,130	21,921	5,423	16,125	2,661
316	310	6	..	11,087	3,684	6,550	..	853
338	331	7	..	12,482	4,351	7,051	..	1,080
420	414	6	..	11,566	4,781	5,502	..	1,283
373	367	6	..	13,259	4,068	7,779	..	1,412
9,255	8,636	566	53	74,637	42,427	2,505	26,841	2,864
9,445	8,776	598	71	73,864	44,503	2,604	24,104	2,653
9,110	8,421	611	78	77,939	44,361	2,429	28,340	2,809
8,785	8,192	494	99	79,247	44,147	2,185	29,921	2,994
2,794	2,190	..	604	26,148	11,997	18	..	14,133
2,779	2,035	..	744	27,762	14,961	19	..	12,782
2,839	2,088	..	751	28,203	13,405	18	..	14,780
3,101	2,148	..	953	27,276	13,362	15	..	13,899
157	143	0	14	10,241	9,513	27	..	701
239	226	..	13	11,947	11,321	35	..	591
120	120	..	..	12,798	12,035	26	..	737
119	118	..	1	12,241	11,560	15	..	666
..	..	..	..	314	126	133	..	56
..	..	..	..	317	159	106	..	52
..	..	..	..	334	163	111	..	60
..	..	..	..	352	180	108	..	64
10,024	8,773	1,079	172	58,575	17,226	15,690	23,245	2,414
9,518	8,277	1,035	206	59,239	18,122	14,764	23,203	3,150
9,833	8,571	1,003	259	57,690	16,459	13,769	22,477	4,985
10,711	9,475	944	292	59,552	18,484	12,357	22,793	5,918
18,982	13,405	537	5,040	560,560	37,726	59,977	437,428	25,429
18,534	12,808	594	5,132	545,647	51,290	65,091	403,195	26,071
19,411	13,073	527	5,811	542,524	59,798	54,608	398,359	29,759
20,095	13,215	607	6,273	561,848	44,752	69,983	412,942	34,171
50,214	48,833	157	1,224	598,096	361,485	24,741	91,786	120,084
54,863	53,397	176	1,290	595,587	366,199	25,959	84,634	118,795
56,777	55,489	172	1,116	596,946	348,797	25,983	76,324	145,842
54,957	53,785	87	1,085	588,202	331,746	24,056	76,005	156,395
..	..	..	..	224	224	..	..	..
..	..	..	..	214	214	..	..	0
..	..	..	..	180	180	..	..	0
..	..	..	..	215	215	..	..	0
2,340	2,340	..	..	49,534	34,863	6,150	..	8,521
1,947	1,947	..	..	52,492	37,851	5,565	..	9,076
1,933	1,933	..	..	53,333	39,765	4,040	..	9,528
2,215	2,215	..	..	51,048	35,197	5,760	..	10,091
..	..	..	..	157	157	..	..	..
..	..	..	..	87	87	..	..	..
..	..	..	..	77	77	..	..	..
..	..	..	..	54	54	..	..	..
806	603	..	203	29,554	12,792	234	15,834	694
1,009	720	..	289	30,893	13,863	259	16,054	717
1,269	875	..	394	31,616	14,502	220	16,098	796
1,642	949	..	693	30,362	13,722	222	15,733	685
..	..	..	..	18,799	4	13,781	..	5,014
..	..	..	..	18,550	3	13,470	..	5,077
..	..	..	..	19,239	2	14,059	..	5,178
..	..	..	..	19,830	2	13,814	..	6,014

Table 32

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Ireland	2015	28,420	20,716	1,095	..	6,609	..	..
	2016	30,539	23,385	973	..	6,181	..	..
	2017	30,898	22,522	895	..	7,481	..	..
	2018	31,118	21,546	932	..	8,640	..	..
Isle of Man	2015	435	431	4	..	..	..	..
	2016	433	430	3	..	..	..	..
	2017	467	463	4	..	..	..	..
	2018	493	490	*3	..	..	..	..
Italy	2015	282,994	191,458	46,970	..	14,844	22,942	6,780
	2016	289,768	198,693	44,257	..	17,689	22,104	7,025
	2017	295,833	208,826	38,025	..	17,742	24,378	6,862
	2018	289,710	192,131	50,503	..	17,716	22,654	6,706
Jersey	2015	48	48	..	..	..	..	..
	2016	70	70	..	..	..	..	..
	2017	49	49	..	..	..	..	..
	2018	*45	*45	..	..	..	..	..
Kosovo	2015	6,119	5,979	140	..	..	..	..
	2016	5,981	5,736	245	..	..	..	..
	2017	5,919	5,739	179	..	0	1	..
	2018	5,917	5,612	273	..	30	2	..
Latvia	2015	5,533	3,526	1,860	..	147	..	..
	2016	6,425	3,767	2,530	..	128	..	..
	2017	7,531	3,000	4,381	..	150	..	..
	2018	6,725	4,170	2,432	..	122	1	..
Liechtenstein	2015	70	2	49	..	..	19	..
	2016	90	2	68	..	..	20	..
	2017	93	2	69	..	..	22	..
	2018	89	2	62	..	..	25	..
Lithuania	2015	4,933	2,761	1,024	..	810	73	265
	2016	4,266	1,750	1,044	..	1,136	66	270
	2017	4,187	1,324	1,181	..	1,364	68	250
	2018	3,514	1,091	960	..	1,144	87	232
Luxembourg	2015	2,766	1,030	1,530	..	102	104	..
	2016	2,196	467	1,528	..	101	100	..
	2017	2,235	470	1,422	..	235	108	..
	2018	2,201	490	1,336	..	255	120	..
Malta	2015	1,305	1,210	..	..	..	95	..
	2016	857	729	..	..	..	128	..
	2017	1,652	1,490	..	..	0	162	..
	2018	1,962	1,772	..	..	0	190	..
Montenegro	2015	3,003	1,512	1,491	..	..	..	..
	2016	3,141	1,298	1,843	..	..	..	..
	2017	2,483	1,348	1,040	..	95	..	..
	2018	3,679	1,444	2,092	..	141	2	..
Netherlands	2015	110,389	97,411	93	4,077	7,550	1,108	150
	2016	115,211	101,241	100	3,960	8,170	1,602	138
	2017	117,264	100,899	61	3,402	10,569	2,207	126
	2018	114,466	96,520	72	3,515	10,563	3,693	103
North Macedonia	2015	5,646	3,617	1,865	..	121	23	20
	2016	5,630	3,563	1,897	..	109	24	36
	2017	5,600	4,304	1,110	..	110	24	52
	2018	5,607	3,642	1,791	..	97	23	54
Norway	2015	144,546	3,247	138,450	..	2,515	..	334
	2016	149,042	3,201	143,417	..	2,116	..	308
	2017	149,480	3,190	143,112	..	2,854	..	324
	2018	146,889	3,168	139,509	..	3,876	2	334

Table 32

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
2,193	2,157	..	36	26,227	18,559	1,095	..	6,573
2,231	2,199	..	32	28,308	21,186	973	..	6,149
2,225	2,189	..	36	28,673	20,333	895	..	7,445
2,193	2,153	..	40	28,925	19,393	932	..	8,600
24	24	..	..	411	407	4	..	..
25	25	..	..	408	405	3	..	..
24	24	..	..	443	439	4	..	..
*33	*33	..	..	460	457	*3	..	..
19,082	18,209	609	264	263,912	173,249	46,361	..	44,302
18,467	17,687	562	218	271,301	181,006	43,695	..	46,600
19,782	19,150	489	143	276,051	189,676	37,536	..	48,839
22,786	22,116	466	204	266,924	170,015	50,037	..	46,872
41	41	..	..	7	7	..	..	..
45	45	..	..	24	24	..	..	..
44	44	..	..	4	4	..	..	..
*41	*41	..	..	*4	*4	..	..	..
..	..	..	..	6,119	5,979	140	..	..
..	..	..	..	5,981	5,736	245	..	..
..	..	..	..	5,919	5,739	179	..	1
..	..	..	..	5,917	5,612	273	..	32
257	253	2	2	5,276	3,273	1,858	..	145
211	207	2	2	6,214	3,560	2,528	..	126
194	188	4	2	7,337	2,812	4,377	..	148
190	186	2	2	6,535	3,984	2,430	..	121
..	..	..	..	70	2	49	..	19
..	..	..	..	90	2	68	..	20
..	..	..	..	93	2	69	..	22
..	..	..	..	89	2	62	..	25
931	666	..	265	4,002	2,095	1,024	..	883
888	618	..	270	3,378	1,132	1,044	..	1,202
826	576	..	250	3,361	748	1,181	..	1,432
649	417	..	232	2,865	674	960	..	1,231
274	164	6	104	2,492	866	1,524	..	102
285	177	8	100	1,911	290	1,520	..	101
278	166	4	108	1,957	304	1,418	..	235
283	159	4	120	1,918	331	1,332	..	255
102	7	..	95	1,203	1,203	..	..	..
136	8	..	128	721	721	..	..	..
172	10	..	162	1,480	1,480	..	..	..
199	9	..	190	1,763	1,763	..	..	..
..	..	..	..	3,003	1,512	1,491	..	..
..	..	..	..	3,141	1,298	1,843	..	..
..	..	..	..	2,483	1,348	1,040	..	95
..	..	..	..	3,679	1,444	2,092	..	143
22,893	20,497	..	2,396	87,496	76,914	93	4,077	6,412
22,735	20,143	..	2,592	92,476	81,098	100	3,960	7,318
25,044	21,824	..	3,220	92,220	79,075	61	3,402	9,682
26,713	22,236	..	4,477	87,753	74,284	72	3,515	9,882
0	0	..	..	5,646	3,617	1,865	..	164
0	0	..	..	5,630	3,563	1,897	..	169
0	0	..	..	5,600	4,304	1,110	..	186
..	..	..	..	5,607	3,642	1,791	..	174
2,930	2,596	..	334	141,616	651	138,450	..	2,515
2,906	2,598	..	308	146,136	603	143,417	..	2,116
2,845	2,521	..	324	146,635	669	143,112	..	2,854
2,922	2,586	..	336	143,967	582	139,509	..	3,876

Table 32

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Poland	2015	164,944	151,478	2,435	..	10,858	57	116
	2016	166,635	151,234	2,622	..	12,588	124	67
	2017	170,467	152,297	3,034	..	14,909	165	62
	2018	170,038	154,427	2,387	..	12,799	300	125
Portugal	2015	52,420	30,005	9,799	..	11,608	796	212
	2016	60,328	29,903	16,909	..	12,474	870	172
	2017	59,434	38,346	7,632	..	12,247	992	217
	2018	59,635	32,154	13,629	..	12,616	1,006	230
Republic of Moldova	2015	939	885	50	..	2	2	..
	2016	906	862	39	..	3	2	..
	2017	896	839	48	..	7	2	..
	2018	952	884	44	..	23	1	..
Romania	2015	66,296	28,604	17,007	11,640	7,063	1,982	..
	2016	65,103	26,871	18,536	11,286	6,590	1,820	..
	2017	64,296	28,673	14,853	11,509	7,406	1,855	..
	2018	64,874	27,307	18,097	11,377	6,322	1,771	..
Russian Federation	2015	1,067,544	701,220	169,914	195,470	148	335	457
	2016	1,090,973	706,663	186,640	196,614	148	462	446
	2017	1,094,289	702,882	187,131	203,143	140	558	435
	2018	1,115,093	716,119	193,027	204,569	232	720	426
Serbia	2015	38,298	27,504	10,783	..	..	11	..
	2016	39,342	27,784	11,520	..	26	12	..
	2017	37,045	27,232	9,752	..	48	13	..
	2018	37,426	25,870	11,393	..	150	13	..
Slovakia	2015	26,903	7,008	4,137	15,146	6	506	100
	2016	27,064	7,015	4,606	14,774	6	533	130
	2017	27,738	7,367	4,623	15,081	6	506	155
	2018	26,971	7,542	3,879	14,843	6	585	116
Slovenia	2015	15,100	5,081	4,091	5,648	6	274	..
	2016	16,500	5,730	4,782	5,715	6	267	..
	2017	16,326	5,610	4,141	6,285	6	284	..
	2018	16,330	5,400	4,893	5,776	6	255	..
Spain	2015	280,911	128,947	31,368	57,196	49,325	13,859	216
	2016	274,772	113,618	39,865	58,633	48,905	13,643	108
	2017	275,726	133,002	21,070	58,039	49,127	14,397	91
	2018	274,452	118,149	36,803	55,766	50,896	12,744	94
Sweden	2015	162,112	13,906	75,439	56,348	16,322	97	..
	2016	156,010	15,150	62,137	63,101	15,479	143	..
	2017	164,250	15,547	65,168	65,696	17,609	230	..
	2018	163,400	15,571	62,250	68,549	16,623	407	..
Switzerland	2015	67,720	3,521	39,881	23,089	110	1,119	..
	2016	63,175	3,898	36,689	21,146	109	1,333	..
	2017	63,089	3,864	37,033	20,376	133	1,683	..
	2018	69,107	3,725	37,803	25,513	122	1,944	..
Ukraine	2015	163,682	67,523	6,971	87,627	1,084	477	..
	2016	164,573	72,795	9,304	80,950	954	491	79
	2017	156,037	58,173	10,520	85,576	984	739	45
	2018	159,852	61,115	12,007	84,398	1,188	1,107	37
United Kingdom	2015	339,573	212,381	9,037	70,345	40,275	7,533	2
	2016	339,899	212,258	8,353	71,726	37,154	10,408	0
	2017	338,640	198,418	8,774	70,336	49,633	11,475	4
	2018	333,424	190,601	7,988	65,064	56,904	12,858	9
Oceania	2015	307,728	240,403	39,938	..	13,907	5,151	8,330
	2016	312,869	240,333	43,192	..	14,584	6,414	8,345
	2017	314,845	239,862	43,542	..	14,736	8,328	8,377
	2018	318,162	237,917	44,283	..	17,286	10,237	8,439

Table 32

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
9,382	9,206	3	173	155,562	142,272	2,432	..	10,858
10,457	10,263	3	191	156,178	140,971	2,619	..	12,588
11,914	11,683	4	227	158,553	140,614	3,030	..	14,909
14,846	14,418	3	425	155,192	140,009	2,384	..	12,799
8,294	7,929	15	350	44,126	22,076	9,784	..	12,266
8,205	7,799	20	386	52,123	22,104	16,889	..	13,130
8,438	7,954	11	473	50,996	30,392	7,621	..	12,983
8,324	7,814	19	491	51,311	24,340	13,610	..	13,361
40	40	..	..	899	845	50	..	4
42	42	..	..	864	820	39	..	5
55	53	..	2	841	786	48	..	7
70	57	..	13	882	827	44	..	11
7,407	6,389	404	614	58,889	22,215	16,603	11,640	8,431
7,125	6,310	323	492	57,978	20,561	18,213	11,286	7,918
7,014	6,299	244	471	57,282	22,374	14,609	11,509	8,790
7,393	6,798	238	357	57,481	20,509	17,859	11,377	7,736
71,996	70,501	1,495	..	995,548	630,719	168,419	195,470	940
74,782	73,452	1,330	..	1,016,191	633,211	185,310	196,614	1,056
72,381	71,153	1,227	..	1,021,908	631,728	185,904	203,143	1,133
75,447	74,293	1,154	..	1,039,647	641,826	191,873	204,569	1,378
318	318	..	..	37,980	27,186	10,783	..	11
453	453	..	..	38,889	27,331	11,520	..	38
526	526	..	..	36,519	26,705	9,752	..	62
543	543	..	..	36,883	25,327	11,393	..	163
3,068	2,519	85	464	23,835	4,489	4,052	15,146	148
3,084	2,473	98	513	23,980	4,542	4,508	14,774	156
3,092	2,505	100	487	24,646	4,862	4,523	15,081	180
3,515	2,892	111	512	23,456	4,650	3,768	14,843	195
688	268	154	266	14,412	4,813	3,937	5,648	14
754	267	227	260	15,746	5,463	4,555	5,715	13
730	265	189	276	15,596	5,345	3,952	6,285	14
728	259	221	248	15,602	5,141	4,672	5,776	13
33,480	32,473	748	259	247,431	96,474	30,620	57,196	63,141
34,042	33,088	803	151	240,730	80,530	39,062	58,633	62,505
36,028	35,415	477	136	239,698	97,587	20,593	58,039	63,479
37,587	36,389	909	289	236,865	81,760	35,894	55,766	63,445
5,827	5,816	11	..	156,285	8,090	75,428	56,348	16,419
5,738	5,727	11	..	150,272	9,423	62,126	63,101	15,622
6,215	6,203	12	..	158,035	9,344	65,156	65,696	17,839
6,139	6,128	11	..	157,261	9,443	62,239	68,549	17,030
7,095	3,096	2,880	1,119	60,625	425	37,001	23,089	110
7,189	3,217	2,639	1,333	55,986	681	34,050	21,146	109
7,497	3,202	2,612	1,683	55,592	662	34,421	20,376	133
7,961	3,129	2,888	1,944	61,146	596	34,915	25,513	122
2,214	2,195	17	2	161,468	65,328	6,954	87,627	1,559
5,767	5,659	23	85	158,806	67,136	9,281	80,950	1,439
3,976	3,899	4	73	152,061	54,274	10,516	85,576	1,695
2,658	2,611	2	45	157,194	58,504	12,005	84,398	2,287
48,805	34,266	1,391	13,148	290,768	178,115	7,646	70,345	34,662
52,614	36,357	1,443	14,814	287,285	175,901	6,910	71,726	32,748
55,900	36,997	1,723	17,180	282,740	161,421	7,051	70,336	43,932
57,970	38,372	1,663	17,935	275,454	152,229	6,325	65,064	51,836
29,411	23,563	355	5,493	278,317	216,839	39,583	..	21,895
29,040	22,330	359	6,351	283,829	218,003	42,833	..	22,992
33,744	25,338	355	8,051	281,101	214,524	43,187	..	23,390
36,636	26,770	213	9,653	281,526	211,147	44,070	..	26,309

Table 32

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
American Samoa	2015	161	159	..	..	..	2	..
	2016	170	167	..	..	..	3	..
	2017	167	162	..	..	..	5	..
	2018	*168	*163	..	..	..	5	..
Australia	2015	251,415	221,479	13,445	..	11,467	5,023	1
	2016	256,563	222,837	15,318	..	12,199	6,209	0
	2017	258,019	221,065	16,285	..	12,597	8,071	1
	2018	260,998	219,884	16,021	..	15,164	9,929	0
Cook Islands	2015	33	29	..	..	..	3	..
	2016	34	30	..	..	..	5	..
	2017	37	31	..	..	..	6	..
	2018	41	31	..	..	..	11	..
Fiji	2015	919	503	406	..	6	4	..
	2016	941	435	495	..	4	7	..
	2017	1,017	514	491	..	2	9	..
	2018	1,042	464	567	..	3	10	..
French Polynesia	2015	697	499	166	..	..	32	..
	2016	700	484	183	..	..	33	..
	2017	698	487	175	..	..	36	..
	2018	696	494	164	..	0	37	..
Guam	2015	1,702	1,681	..	..	..	22	..
	2016	1,720	1,668	..	..	*1	52	..
	2017	1,760	1,708	..	..	*1	52	..
	2018	1,715	1,663	..	..	*1	52	..
Kiribati	2015	*29	*26	..	..	..	4	..
	2016	*31	*26	..	..	..	5	..
	2017	*31	*26	..	..	..	5	..
	2018	*31	*27	..	..	..	*5	..
Marshall Islands	2015	*87	*86	..	..	..	1	..
	2016	*88	*86	..	..	..	2	..
	2017	*89	*87	..	..	..	2	..
	2018	*90	*88	..	..	..	2	..
Micronesia (Fed. States of)	2015	67	66	0	..	..	1	..
	2016	*68	*66	0	..	..	2	..
	2017	*67	*65	0	..	..	2	..
	2018	*69	*65	0	..	*1	*3	..
Nauru	2015	31	31	..	..	..	0	..
	2016	32	31	..	..	..	0	..
	2017	35	34	..	..	..	1	..
	2018	36	35	..	..	..	1	..
New Caledonia	2015	2,903	2,494	340	..	62	7	..
	2016	3,130	2,842	232	..	45	11	..
	2017	3,228	2,794	361	..	45	28	..
	2018	3,486	3,077	317	..	45	47	..
New Zealand	2015	44,224	9,389	24,528	..	2,364	36	7,907
	2016	43,698	7,466	25,920	..	2,330	57	7,925
	2017	44,192	8,897	25,177	..	2,086	76	7,956
	2018	44,380	7,912	26,287	..	2,068	99	8,014
Niue	2015	3	3	..	..	..	0	..
	2016	*3	*3	..	..	..	0	..
	2017	*3	*3	..	..	..	0	..
	2018	*4	*3	..	..	..	0	..
Northern Mariana Islands	2015	*430	*430	..	..	..	..	..
	2016	*387	*387	..	..	..	..	..
	2017	*380	*380	..	..	..	..	..
	2018	*390	*390	..	..	..	..	..

Table 32

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	161	159	..	..	2
..	..	..	..	170	167	..	..	3
..	..	..	..	167	162	..	..	5
..	..	..	..	*168	*163	..	..	5
24,519	19,607	..	4,912	226,896	201,872	13,445	..	11,579
24,084	18,336	..	5,748	232,479	204,501	15,318	..	12,660
28,941	21,507	..	7,434	229,078	199,558	16,285	..	13,235
31,974	22,969	..	9,005	229,024	196,915	16,021	..	16,088
..	..	..	..	33	29	..	..	3
..	..	..	..	34	30	..	..	5
..	..	..	..	37	31	..	..	6
..	..	..	..	41	31	..	..	11
22	22	..	..	896	480	406	..	10
11	11	..	..	931	425	495	..	11
23	23	..	..	994	491	491	..	11
40	40	..	..	1,003	424	567	..	12
..	..	..	..	697	499	166	..	32
..	..	..	..	700	484	183	..	33
..	..	..	..	698	487	175	..	36
..	..	..	..	696	494	164	..	37
..	..	..	..	1,702	1,681	..	..	22
..	..	..	..	1,720	1,668	..	..	52
..	..	..	..	1,760	1,708	..	..	52
..	..	..	..	1,715	1,663	..	..	52
*2	*2	..	..	*27	*24	..	..	4
*2	*2	..	..	*29	*24	..	..	5
*2	*2	..	..	*29	*24	..	..	5
*2	*2	..	..	*29	*24	..	..	*5
..	..	..	..	*87	*86	..	..	1
..	..	..	..	*88	*86	..	..	2
..	..	..	..	*89	*87	..	..	2
..	..	..	..	*90	*88	..	..	2
..	..	..	..	67	66	0	..	1
..	..	..	..	*68	*66	0	..	2
..	..	..	..	*67	*65	0	..	2
..	..	..	..	*69	*65	0	..	*4
..	..	..	..	31	31	..	..	0
..	..	..	..	32	31	..	..	0
..	..	..	..	35	34	..	..	1
..	..	..	..	36	35	..	..	1
..	..	..	..	2,903	2,494	340	..	68
..	..	..	..	3,130	2,842	232	..	57
..	..	..	..	3,228	2,794	361	..	73
..	..	..	..	3,486	3,077	317	..	92
1,446	1,283	4	159	42,778	8,106	24,524	..	10,148
1,408	1,221	4	183	42,290	6,245	25,916	..	10,129
1,457	1,256	4	197	42,735	7,641	25,173	..	9,921
1,412	1,185	4	223	42,968	6,727	26,283	..	9,958
..	..	..	..	3	3	..	..	0
..	..	..	..	*3	*3	..	..	0
..	..	..	..	*3	*3	..	..	0
..	..	..	..	*4	*3	..	..	0
..	..	..	..	*430	*430	..	..	..
..	..	..	..	*387	*387	..	..	..
..	..	..	..	*380	*380	..	..	..
..	..	..	..	*390	*390	..	..	..

Table 32

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Palau	2015	*90	*90	..	..	..	..	..
	2016	*95	*95	..	..	..	0	..
	2017	*95	*95	..	..	..	0	..
	2018	*95	*95	..	..	..	0	..
Papua New Guinea	2015	4,560	3,125	1,012	..	..	1	422
	2016	4,794	3,367	1,005	..	..	2	420
	2017	4,595	3,155	1,018	..	..	2	420
	2018	*4,482	*3,180	876	..	..	1	*425
Samoa	2015	134	93	33	..	0	8	..
	2016	149	101	33	..	0	16	..
	2017	154	108	26	..	0	20	..
	2018	154	90	43	..	0	21	..
Solomon Islands	2015	97	95	0	..	..	2	..
	2016	105	102	1	..	..	2	..
	2017	108	104	1	..	..	3	..
	2018	110	106	1	..	..	3	..
Tonga	2015	55	52	..	..	0	3	..
	2016	60	55	..	..	0	5	..
	2017	62	58	..	..	0	4	..
	2018	68	64	..	..	0	4	..
Tuvalu	2015	6	6	..	..	..	1	..
	2016	7	5	..	..	..	2	..
	2017	8	6	..	..	..	2	..
	2018	*8	*6	..	..	..	2	..
Vanuatu	2015	66	51	7	..	8	0	..
	2016	74	62	5	..	5	2	..
	2017	80	63	*7	..	5	4	..
	2018	*80	*62	7	..	5	5	..
Wallis and Futuna Is.	2015	*18	*18	0	..	..	0	..
	2016	*20	*20	0	..	..	0	..
	2017	*20	*19	0	..	..	0	..
	2018	*20	*20	0	..	..	0	..

Table 32

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
*6	*6	..	..	*84	*84	..	..	..
*6	*6	..	..	*89	*89	..	..	0
*7	*7	..	..	*88	*88	..	..	0
*7	*7	..	..	*88	*88	..	..	0
3,407	2,634	351	422	1,153	491	661	..	1
3,520	2,745	355	420	1,274	622	650	..	2
3,304	2,533	351	420	1,291	622	667	..	2
*3,192	*2,558	209	*425	1,290	*622	667	..	1
0	..	..	0	134	93	33	..	8
0	..	..	0	149	101	33	..	16
0	..	..	0	154	108	26	..	20
0	..	..	0	154	90	43	..	21
*9	*9	..	..	88	86	0	..	2
*9	*9	..	..	96	93	1	..	2
*9	*9	..	..	99	95	1	..	3
*9	*9	..	..	101	97	1	..	3
..	..	..	..	55	52	..	..	3
..	..	..	..	60	55	..	..	5
..	..	..	..	62	58	..	..	4
..	..	..	..	68	64	..	..	4
..	..	..	..	6	6	..	..	1
..	..	..	..	7	5	..	..	2
..	..	..	..	8	6	..	..	2
..	..	..	..	*8	*6	..	..	2
..	..	..	..	66	51	7	..	9
..	..	..	..	74	62	5	..	8
..	..	..	..	80	63	*7	..	9
..	..	..	..	*80	*62	7	..	10
..	..	..	..	*18	*18	0	..	0
..	..	..	..	*20	*20	0	..	0
..	..	..	..	*20	*19	0	..	0
..	..	..	..	*20	*20	0	..	0

Electricity supply and consumption

Gigawatt-hours and kilowatt-hours per capita

Table Notes

Supply is calculated as **Production** plus **Imports** minus **Exports**.

EIOU and losses refers to energy industries own use of electricity, including for pumped storage, and losses.

Total Final Consumption (TFC) refers to final energy consumption of electricity.

Figures may not add up due to statistical differences, or for some countries quantities transformed into heat in heat pumps and/or electric boilers

Please refer to the Definitions Section on pages ix to xv for the appropriate product description /classification, and xvi to xvii for the descriptions of relevant flows.

Figure 81: World electricity generation by region, 1990-2018

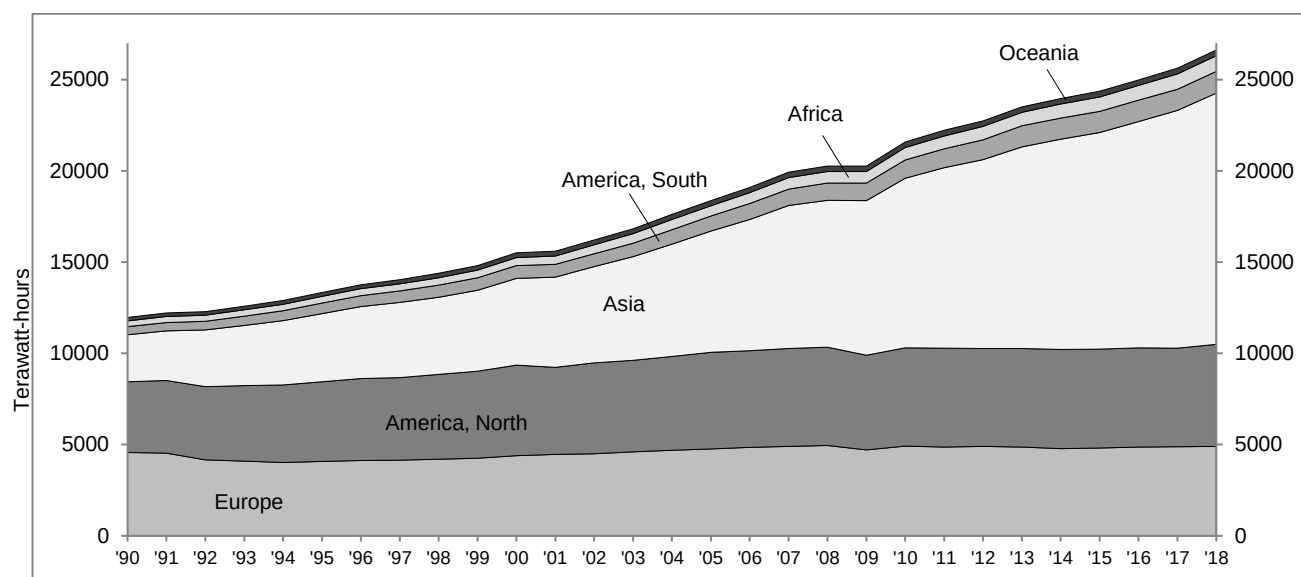


Figure 82: Major electricity producing countries, 2018

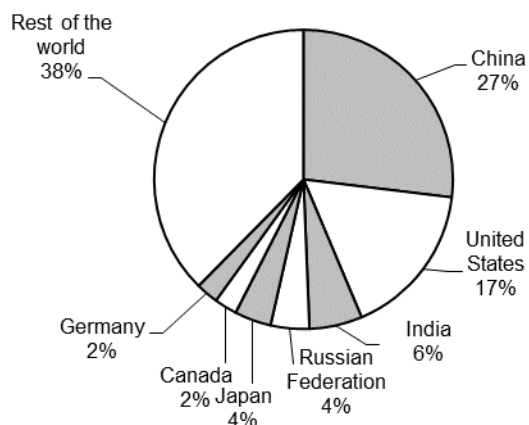


Figure 83: Major electricity consuming countries, 2018

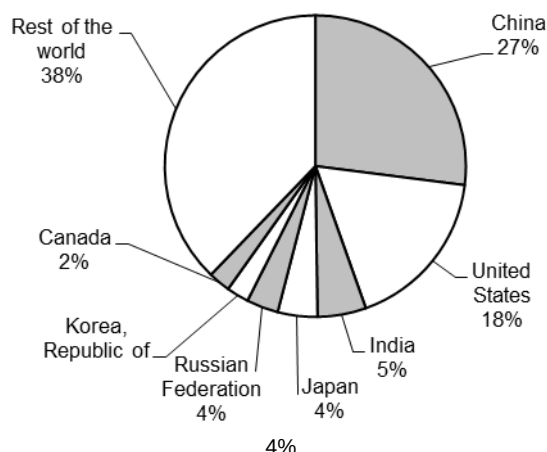


Table 33

Electricity supply and consumption

Gigawatt-hours and kilowatt-hours per capita

Country or area	Year	Production	Imports	Exports	Supply		Consumption	
					Total	Per capita	EIOU+losses	TFC
World	2015	24,363,404	765,760	734,683	24,394,482	3,306	4,050,108	20,222,259
	2016	24,988,266	737,023	726,876	24,998,413	3,349	4,156,517	20,758,773
	2017	25,621,700	745,138	736,196	25,630,642	3,396	4,339,110	21,257,406
	2018	26,626,091	738,448	724,243	26,640,296	3,491	4,420,244	22,217,495
Africa	2015	785,873	42,510	35,753	792,630	671	153,084	619,789
	2016	805,295	43,324	38,361	810,259	669	158,230	645,208
	2017	829,432	44,287	33,785	839,934	676	182,954	651,296
	2018	854,629	39,526	32,592	861,563	676	173,733	683,624
Algeria	2015	68,798	610	641	68,767	1,731	18,614	50,153
	2016	70,839	257	507	70,589	1,741	18,301	52,288
	2017	76,018	537	880	75,675	1,828	19,299	56,376
	2018	76,664	506	597	76,573	1,813	18,419	58,153
Angola	2015	9,783	..	..	9,783	351	1,359	8,424
	2016	10,379	..	..	10,379	360	1,441	8,938
	2017	10,737	..	..	10,737	360	1,490	9,247
	2018	11,753	..	..	11,753	381	1,630	10,124
Benin	2015	330	1,048	..	1,378	130	277	1,099
	2016	276	1,089	..	1,365	126	288	1,071
	2017	331	1,111	..	1,442	129	297	1,139
	2018	202	1,293	..	1,495	130	295	1,181
Botswana	2015	*2,967	1,468	..	*4,435	*2,091	945	3,495
	2016	2,688	1,650	..	4,338	2,008	871	3,479
	2017	3,022	1,288	..	4,310	1,955	1,016	3,280
	2018	3,105	277	..	3,382	1,500	785	3,209
Burkina Faso	2015	999	443	..	1,442	80	242	*1,200
	2016	973	630	..	1,603	86	*242	*1,361
	2017	1,095	645	..	1,741	91	*289	*1,452
	2018	1,021	837	..	1,858	94	*274	*1,568
Burundi	2015	177	*96	..	273	27	*59	*214
	2016	181	*128	..	309	29	*61	*216
	2017	192	*94	..	286	26	*67	*225
	2018	246	*100	..	346	31	*70	*276
Cabo Verde	2015	421	..	..	421	802	116	*305
	2016	444	..	..	444	836	*128	*316
	2017	492	..	..	492	915	*142	*343
	2018	*497	..	..	*497	*914	*141	*356
Cameroon	2015	7,985	18	..	8,003	344	1,896	6,107
	2016	7,167	16	..	7,183	300	1,499	5,482
	2017	8,099	18	..	8,117	330	1,772	6,195
	2018	8,626	19	..	8,645	343	1,891	6,598
Central African Rep.	2015	142	..	..	142	32	*10	*132
	2016	143	..	..	143	32	*10	*133
	2017	145	..	..	145	32	*10	*135
	2018	147	..	..	147	32	*10	*137
Chad	2015	*228	..	..	*228	*16	*13	*215
	2016	*230	..	..	*230	*16	*12	*218
	2017	*230	..	..	*230	*15	*12	*218
	2018	*234	..	..	*234	*15	*13	*221
Comoros	2015	*53	..	..	*53	*68	*21	*32
	2016	*58	..	..	*58	*73	*23	*35
	2017	*91	..	..	*91	*112	*36	*55
	2018	*98	..	..	*98	*118	*39	*59

Electricity supply and consumption

Gigawatt-hours and kilowatt-hours per capita

Country or area	Year	Production	Imports	Exports	Supply		Consumption	
					Total	Per capita	EIOU+losses	TFC
Congo	2015	2,770	13	33	2,750	566	1,544	1,318
	2016	2,953	21	22	2,952	593	1,692	1,439
	2017	3,473	22	22	3,473	680	1,712	1,555
	2018	3,509	19	26	3,502	668	1,727	1,582
Côte d'Ivoire	2015	8,711	23	872	7,862	338	2,180	6,023
	2016	10,253	19	1,877	8,395	352	2,140	6,615
	2017	10,121	37	1,247	8,911	365	2,617	6,318
	2018	10,059	102	1,156	9,005	359	2,068	6,926
Dem. Rep. of the Congo	2015	8,953	20	422	8,551	112	1,907	7,266
	2016	9,135	20	420	8,735	111	1,876	7,001
	2017	9,510	668	62	10,116	124	2,147	7,223
	2018	12,067	799	70	12,796	152	2,831	9,965
Djibouti	2015	178	314	..	492	538	*98	*397
	2016	88	450	..	537	578	*107	*423
	2017	*59	508	..	567	600	*113	*461
	2018	*58	526	..	584	609	*115	*469
Egypt	2015	180,377	43	1,158	179,262	1,939	25,127	154,205
	2016	191,920	54	747	191,227	2,025	27,105	162,275
	2017	195,150	65	333	194,882	2,021	*43,276	151,606
	2018	202,838	81	425	202,494	2,057	34,212	165,610
Equatorial Guinea	2015	848	..	..	848	726	*130	*718
	2016	*850	..	..	*850	*699	*131	*719
	2017	*850	..	..	*850	*674	*131	*719
	2018	*736	..	..	*736	*562	*110	*626
Eritrea	2015	356	..	..	356	106	61	303
	2016	363	..	..	363	108	62	308
	2017	391	..	..	391	115	66	318
	2018	495	..	..	495	143	83	404
Eswatini	2015	*496	980	..	1,476	1,337	191	1,296
	2016	388	1,077	..	1,465	1,315	203	1,262
	2017	414	1,048	..	1,462	1,300	169	1,387
	2018	519	1,020	..	1,539	1,355	195	1,323
Ethiopia	2015	10,493	..	700	9,793	97	2,161	7,470
	2016	12,596	..	1,303	11,293	109	2,683	8,586
	2017	13,276	..	1,432	11,844	111	3,001	8,854
	2018	13,612	..	1,470	12,142	111	3,078	9,090
Gabon	2015	2,127	337	..	2,464	1,265	612	1,852
	2016	2,338	344	..	2,682	1,336	665	2,017
	2017	2,277	346	..	2,623	1,270	467	2,155
	2018	2,614	349	..	2,963	1,398	359	2,474
Gambia	2015	286	..	..	286	137	*66	*220
	2016	302	..	..	302	141	*69	*233
	2017	317	..	..	317	143	*80	*237
	2018	*321	..	..	*321	*141	*82	*239
Ghana	2015	11,672	223	587	11,308	406	1,444	9,778
	2016	13,203	745	187	13,761	483	1,916	11,523
	2017	14,248	320	268	14,300	491	2,171	12,120
	2018	16,425	140	740	15,825	532	2,632	13,185
Guinea	2015	1,118	..	..	1,118	98	*190	*928
	2016	1,596	..	..	1,596	136	*271	*1,324
	2017	1,753	..	..	1,753	145	*298	*1,455
	2018	1,914	..	..	1,914	154	*325	*1,588

Table 33

Electricity supply and consumption

Gigawatt-hours and kilowatt-hours per capita

Country or area	Year	Production	Imports	Exports	Supply		Consumption	
					Total	Per capita	EIOU+losses	TFC
Guinea-Bissau	2015	*58	..	..	*58	*33	0	*58
	2016	*84	..	..	*84	*47	0	*84
	2017	*86	..	..	*86	*47	0	*86
	2018	*87	..	..	*87	*46	0	*87
Kenya	2015	9,515	59	46	9,528	199	1,689	7,732
	2016	9,971	86	39	10,019	204	2,015	8,346
	2017	10,129	230	12	10,346	206	2,015	8,741
	2018	11,163	130	69	11,224	218	2,354	8,702
Lesotho	2015	532	261	4	788	383	122	*694
	2016	508	373	3	878	423	154	*765
	2017	502	387	1	888	424	117	700
	2018	517	397	3	911	432	116	807
Liberia	2015	*350	..	..	*350	*78	*85	*265
	2016	*440	..	..	*440	*96	*165	*275
	2017	*440	..	..	*440	*94	*154	*285
	2018	*444	..	..	*444	*92	*144	*300
Libya	2015	37,511	..	..	37,511	5,844	7,858	15,282
	2016	31,420	376	..	31,796	4,898	7,331	13,988
	2017	33,282	302	..	33,584	5,103	7,682	14,132
	2018	34,171	465	..	34,636	5,186	7,735	17,605
Madagascar	2015	1,712	..	..	1,712	71	*135	*1,577
	2016	1,867	..	..	1,867	75	143	1,738
	2017	1,971	..	..	1,971	77	154	1,802
	2018	2,072	..	..	2,072	79	*155	1,917
Malawi	2015	*2,136	..	22	*2,114	*126	*537	1,559
	2016	*2,160	..	24	*2,135	*124	*281	1,855
	2017	*1,991	..	20	*1,971	*112	*642	1,329
	2018	*2,266	..	82	*2,183	*120	*670	*1,513
Mali	2015	2,370	317	*486	2,201	126	*298	*1,903
	2016	2,613	113	*529	2,197	122	*322	*1,875
	2017	3,068	*117	*535	2,650	143	*330	*2,320
	2018	*3,261	*198	*550	*2,909	*152	*369	*2,540
Mauritania	2015	975	183	..	1,158	286	*225	932
	2016	1,042	221	57	1,206	290	*255	951
	2017	1,183	*185	..	1,368	319	*305	1,063
	2018	1,271	198	..	1,469	333	*320	1,148
Mauritius	2015	2,996	..	..	2,996	2,378	486	2,506
	2016	3,042	..	..	3,042	2,411	477	2,555
	2017	3,120	..	..	3,120	2,467	497	2,614
	2018	3,132	..	..	3,132	2,471	494	2,650
Morocco	2015	31,217	5,138	165	36,190	1,028	6,252	29,939
	2016	32,141	5,289	135	37,295	1,046	6,233	31,063
	2017	33,192	6,058	161	39,089	1,082	6,636	32,453
	2018	35,839	3,725	350	39,214	1,072	6,627	32,587
Mozambique	2015	19,641	10,547	12,876	17,312	640	5,318	12,180
	2016	18,697	9,928	14,269	14,355	516	2,538	11,383
	2017	16,992	9,935	9,945	16,982	593	2,538	14,443
	2018	16,659	9,899	10,446	16,112	546	2,589	12,722
Namibia	2015	1,576	2,678	88	4,166	1,799	341	3,782
	2016	1,479	3,085	99	4,465	1,893	505	3,909
	2017	1,772	2,939	100	4,611	1,919	527	4,057
	2018	1,363	3,449	114	4,698	1,919	501	4,171

Electricity supply and consumption

Gigawatt-hours and kilowatt-hours per capita

Country or area	Year	Production	Imports	Exports	Supply		Consumption	
					Total	Per capita	EIOU+losses	TFC
Niger	2015	522	782	0	1,304	65	259	916
	2016	442	779	0	1,221	59	*276	*968
	2017	566	845	0	1,412	65	*290	*1,014
	2018	480	1,253	0	1,733	77	*276	*1,379
Nigeria	2015	32,442	..	..	32,442	179	5,973	24,847
	2016	33,586	..	..	33,586	181	6,206	25,034
	2017	34,445	..	..	34,445	180	6,390	25,676
	2018	36,278	..	..	36,278	185	6,710	26,316
Rwanda	2015	526	83	3	606	53	134	419
	2016	636	78	4	710	61	147	*560
	2017	698	86	4	779	65	174	596
	2018	730	94	4	819	67	*142	668
Sao Tome and Principe	2015	*81	..	..	*81	*407	*18	*64
	2016	86	..	..	86	424	18	*69
	2017	*91	..	..	*91	*438	*19	*72
	2018	*91	..	..	*91	*433	*18	*73
Senegal	2015	3,818	333	..	4,151	285	685	3,466
	2016	4,097	360	..	4,457	297	724	3,734
	2017	4,418	360	..	4,778	310	726	3,472
	2018	4,502	360	..	4,862	307	727	3,998
Seychelles	2015	462	..	..	462	4,865	*45	*409
	2016	496	..	..	496	5,179	*44	*452
	2017	513	..	..	513	5,320	*42	*470
	2018	518	..	..	518	5,334	*42	*476
Sierra Leone	2015	*261	..	..	*261	*36	*84	*177
	2016	*303	..	..	*303	*41	*93	*210
	2017	*309	..	..	*309	*41	*98	*210
	2018	*164	..	..	*164	*21	*79	*84
Somalia	2015	350	..	..	350	25	*35	315
	2016	350	..	..	350	25	*35	315
	2017	*350	..	..	*350	*24	*35	315
	2018	*350	..	..	*350	*23	0	350
South Africa	2015	249,655	13,059	14,609	248,105	4,480	50,002	193,862
	2016	255,208	10,555	16,549	249,214	4,434	55,154	202,741
	2017	257,702	10,555	16,549	251,708	4,415	59,370	202,673
	2018	256,064	9,687	14,386	251,365	4,349	57,897	205,423
South Sudan	2015	578	..	..	578	54	45	529
	2016	447	..	..	447	41	35	409
	2017	542	..	..	542	50	39	498
	2018	583	..	..	583	53	31	446
St. Helena and Depend.	2015	11	..	..	11	1,903	*2	9
	2016	12	..	..	12	1,946	*2	9
	2017	11	..	..	11	1,885	*2	9
	2018	12	..	..	12	1,976	*1	11
Sudan	2015	13,158	129	5	13,282	341	2,995	10,580
	2016	14,540	439	6	14,973	376	3,194	11,799
	2017	15,659	891	..	16,550	405	3,381	12,961
	2018	16,374	808	..	17,182	411	3,482	13,700
Togo	2015	444	857	..	1,301	178	200	1,138
	2016	950	448	..	1,398	186	215	1,185
	2017	690	747	..	1,436	187	134	1,313
	2018	589	882	..	1,471	186	211	1,239

Table 33

Electricity supply and consumption

Gigawatt-hours and kilowatt-hours per capita

Country or area	Year	Production	Imports	Exports	Supply		Consumption	
					Total	Per capita	EIOU+losses	TFC
Tunisia	2015	19,676	403	500	19,579	1,751	4,665	15,437
	2016	19,808	134	255	19,687	1,742	3,976	15,569
	2017	20,589	450	483	20,556	1,798	4,364	16,113
	2018	21,012	382	484	20,910	1,808	4,416	16,504
Uganda	2015	3,300	49	122	3,226	84	713	2,487
	2016	3,508	54	165	3,398	86	765	2,594
	2017	3,854	65	317	3,602	88	755	2,802
	2018	4,040	84	233	3,891	91	789	3,067
United Rep. of Tanzania	2015	6,772	71	..	6,843	133	1,178	5,250
	2016	7,216	102	..	7,318	138	1,337	5,370
	2017	7,250	106	..	7,356	135	1,305	5,933
	2018	7,230	118	..	7,348	130	1,311	6,372
Zambia	2015	13,440	785	1,176	13,050	822	1,600	11,450
	2016	11,695	2,185	794	13,086	800	2,228	10,858
	2017	14,185	753	1,063	13,875	823	1,683	12,192
	2018	16,191	152	1,226	15,117	871	2,220	12,898
Zimbabwe	2015	9,522	1,139	1,239	9,422	682	1,843	6,876
	2016	7,090	2,220	369	8,941	637	1,568	7,282
	2017	7,544	2,569	351	9,762	686	1,872	7,880
	2018	9,418	1,177	161	10,434	723	1,923	8,506
America, North	2015	5,423,268	89,216	82,199	5,430,286	9,564	775,003	4,650,858
	2016	5,445,802	84,841	87,438	5,443,206	9,505	750,040	4,688,132
	2017	5,407,538	81,750	86,247	5,403,040	9,357	782,705	4,636,274
	2018	5,583,985	79,254	81,193	5,582,046	9,589	779,851	4,822,364
Anguilla	2015	95	..	..	95	6,618	13	*81
	2016	104	..	..	104	7,170	12	*91
	2017	80	..	..	80	5,477	*12	*68
	2018	87	..	..	87	5,903	*13	74
Antigua and Barbuda	2015	*347	..	..	*347	*3,708	*97	*250
	2016	*353	..	..	*353	*3,735	*100	*253
	2017	*353	..	..	*353	*3,699	*98	*255
	2018	362	..	..	362	3,760	*82	*287
Aruba	2015	*932	..	..	*932	*8,929	153	*778
	2016	*947	..	..	*947	*9,029	*158	*789
	2017	*978	..	..	*978	*9,286	*165	*813
	2018	*983	..	..	*983	*9,285	*166	*817
Bahamas	2015	1,998	..	..	1,998	5,339	*87	1,930
	2016	1,966	..	..	1,966	5,202	*86	1,965
	2017	*1,987	..	..	*1,987	*5,205	*96	*1,841
	2018	*2,280	..	..	*2,280	*5,912	*89	*2,209
Barbados	2015	1,043	..	..	1,043	3,656	96	*947
	2016	1,064	..	..	1,064	3,722	86	978
	2017	1,047	..	..	1,047	3,658	75	974
	2018	1,055	..	..	1,055	3,682	38	943
Belize	2015	417	255	..	672	1,862	69	603
	2016	414	243	..	657	1,784	68	589
	2017	*636	230	..	*866	*2,305	105	761
	2018	*651	235	..	*886	*2,314	107	779
Bermuda	2015	674	..	..	674	10,586	*84	591
	2016	665	..	..	665	10,502	*80	586
	2017	675	..	..	675	10,711	91	585
	2018	642	..	..	642	10,235	*75	568

Electricity supply and consumption

Gigawatt-hours and kilowatt-hours per capita

Country or area	Year	Production	Imports	Exports	Supply		Consumption	
					Total	Per capita	EIOU+losses	TFC
Bonaire, St Eustatius, Saba	2015	127	..	..	127	5,156	*31	*96
	2016	137	..	..	137	5,480	*36	*101
	2017	142	..	..	142	5,575	*38	*104
	2018	*143	..	..	*143	*5,562	*38	*105
British Virgin Islands	2015	*210	..	..	*210	*7,211	*30	*181
	2016	*212	..	..	*212	*7,232	*29	*183
	2017	*149	..	..	*149	*5,026	*24	*124
	2018	*146	..	..	*146	*4,897	*29	*117
Canada	2015	657,944	8,726	68,287	598,383	16,609	90,523	498,325
	2016	663,808	9,303	73,103	600,008	16,491	89,945	494,129
	2017	662,972	9,904	72,040	600,836	16,357	92,625	513,726
	2018	654,399	13,195	61,401	606,193	16,351	91,295	524,370
Cayman Islands	2015	640	..	..	640	10,369	38	601
	2016	666	..	..	666	10,645	40	627
	2017	671	..	..	671	10,579	29	642
	2018	658	..	..	658	10,249	9	649
Costa Rica	2015	10,812	537	643	10,705	2,208	1,285	9,428
	2016	10,880	807	657	11,030	2,251	1,253	9,785
	2017	11,332	551	741	11,142	2,251	1,225	9,901
	2018	11,498	572	813	11,257	2,252	1,223	9,989
Cuba	2015	20,288	..	..	20,288	1,791	4,128	16,160
	2016	20,459	..	..	20,459	1,805	4,175	16,283
	2017	20,558	..	..	20,558	1,813	5,068	15,490
	2018	20,837	..	..	20,837	1,838	5,248	15,589
Curaçao	2015	878	..	..	878	5,493	187	691
	2016	884	..	..	884	5,489	169	715
	2017	891	..	..	891	5,500	156	736
	2018	866	..	..	866	5,321	149	716
Dominica	2015	151	..	..	151	2,123	12	*139
	2016	156	..	..	156	2,186	13	*143
	2017	130	..	..	130	1,816	9	*121
	2018	110	..	..	110	1,529	9	*100
Dominican Republic	2015	17,922	..	..	17,922	1,743	2,970	14,952
	2016	18,690	..	..	18,690	1,798	3,099	15,591
	2017	19,036	..	..	19,036	1,811	3,138	15,887
	2018	19,651	..	..	19,651	1,849	3,242	16,409
El Salvador	2015	6,065	963	64	6,964	1,101	*940	5,999
	2016	6,083	1,066	77	7,071	1,113	*932	6,073
	2017	5,615	1,675	90	7,200	1,127	*1,006	6,153
	2018	5,402	1,824	65	7,161	1,115	*883	6,221
Greenland	2015	520	..	..	520	9,227	29	331
	2016	490	..	..	490	8,691	27	320
	2017	518	..	..	518	9,174	29	328
	2018	*530	..	..	*530	*9,370	*25	*334
Grenada	2015	207	..	..	207	1,888	23	184
	2016	218	..	..	218	1,981	29	189
	2017	227	..	..	227	2,044	31	196
	2018	*231	..	..	*231	*2,072	23	208
Guatemala	2015	11,157	585	1,087	10,655	656	1,080	9,466
	2016	11,789	747	1,335	11,201	675	1,251	9,907
	2017	12,272	891	1,858	11,306	668	1,259	10,115
	2018	13,568	825	2,500	11,893	690	1,678	10,220

Table 33

Electricity supply and consumption

Gigawatt-hours and kilowatt-hours per capita

Country or area	Year	Production	Imports	Exports	Supply		Consumption	
					Total	Per capita	EIOU+losses	TFC
Haiti	2015	1,038	..	..	1,038	97	625	411
	2016	1,084	..	..	1,084	100	634	417
	2017	1,056	..	..	1,056	96	641	422
	2018	1,046	..	..	1,046	94	652	429
Honduras	2015	9,167	679	536	9,310	1,022	3,019	6,291
	2016	9,150	607	553	9,204	993	3,160	6,044
	2017	9,251	329	25	9,555	1,013	3,007	6,641
	2018	9,526	368	8	9,886	1,031	2,990	6,886
Jamaica	2015	4,206	..	..	4,206	1,455	1,149	3,073
	2016	4,342	..	..	4,342	1,494	1,173	3,184
	2017	4,360	..	..	4,360	1,493	1,170	3,191
	2018	4,402	..	..	4,402	1,500	1,163	3,299
Mexico	2015	310,712	1,650	2,320	310,042	2,544	57,975	257,450
	2016	320,565	2,232	1,968	320,829	2,601	61,534	270,367
	2017	322,063	2,151	1,804	322,410	2,584	60,983	271,921
	2018	335,581	3,759	2,276	337,064	2,671	64,272	283,408
Montserrat	2015	*24	..	..	*24	*4,833	*3	20
	2016	*20	..	..	*20	*4,018	*1	*18
	2017	*19	..	..	*19	*3,808	*1	*18
	2018	*20	..	..	*20	*3,905	*1	*19
Nicaragua	2015	4,580	34	22	4,592	738	1,201	3,396
	2016	4,591	205	18	4,778	758	1,157	3,665
	2017	4,525	327	1	4,851	760	1,403	3,451
	2018	4,636	201	0	4,837	748	1,381	3,594
Panama	2015	10,295	17	139	10,173	2,563	1,601	8,549
	2016	10,885	30	398	10,518	2,605	1,719	8,761
	2017	11,054	7	318	10,743	2,616	1,689	9,095
	2018	11,353	13	326	11,040	2,643	1,916	9,296
Puerto Rico	2015	21,160	..	..	21,160	6,257	*3,675	17,485
	2016	20,887	..	..	20,887	6,362	*3,575	17,312
	2017	16,571	..	..	16,571	5,238	*3,013	13,557
	2018	*16,647	..	..	*16,647	*5,477	*2,980	*13,667
Sint Maarten (Dutch part)	2015	*369	..	..	*369	*9,233	*33	336
	2016	*376	..	..	*376	*9,211	*34	342
	2017	*332	..	..	*332	*8,018	*51	*282
	2018	*291	..	..	*291	*6,949	*56	*236
St. Kitts-Nevis	2015	*217	..	..	*217	*4,246	*34	*184
	2016	*228	..	..	*228	*4,414	*39	*189
	2017	232	..	..	232	4,458	*45	*182
	2018	*232	..	..	*232	*4,424	*45	*187
St. Lucia	2015	381	..	..	381	2,128	44	338
	2016	391	..	..	391	2,174	43	348
	2017	400	..	..	400	2,212	41	360
	2018	404	..	..	404	2,222	43	362
St. Pierre-Miquelon	2015	49	..	..	49	8,119	*4	*44
	2016	48	..	..	48	8,170	*4	*45
	2017	49	..	..	49	8,272	*3	*46
	2018	51	..	..	51	8,703	*3	*47
St. Vincent-Grenadines	2015	147	..	..	147	1,343	14	133
	2016	153	..	..	153	1,401	15	138
	2017	151	..	..	151	1,372	14	137
	2018	151	..	..	151	1,368	16	135

Electricity supply and consumption

Gigawatt-hours and kilowatt-hours per capita

Country or area	Year	Production	Imports	Exports	Supply		Consumption	
					Total	Per capita	EIOU+losses	TFC
Trinidad and Tobago	2015	10,300	..	..	10,300	7,516	596	9,703
	2016	10,011	..	..	10,011	7,267	596	9,415
	2017	9,933	..	..	9,933	7,177	614	9,318
	2018	9,225	..	..	9,225	6,637	762	8,463
Turks and Caicos Islands	2015	*239	..	..	*239	*6,643	*19	*220
	2016	*250	..	..	*250	*6,838	*20	230
	2017	*241	..	..	*241	*6,482	*22	219
	2018	*257	..	..	*257	*6,823	*21	*237
United States	2015	4,317,159	75,770	9,100	4,383,829	13,662	602,993	3,780,836
	2016	4,322,038	69,601	9,329	4,382,310	13,567	574,599	3,807,711
	2017	4,286,423	65,685	9,371	4,342,737	13,359	604,620	3,738,117
	2018	4,455,439	58,261	13,804	4,499,896	13,757	599,019	3,900,875
United States Virgin Is.	2015	*799	..	..	*799	*7,613	*143	*656
	2016	*797	..	..	*797	*7,604	*148	*649
	2017	*610	..	..	*610	*5,826	*111	*499
	2018	*626	..	..	*626	*5,983	*112	*521
America, South	2015	1,165,307	45,521	44,257	1,166,572	2,831	232,763	932,805
	2016	1,169,697	52,897	51,633	1,170,961	2,816	233,307	933,634
	2017	1,165,211	47,156	46,645	1,165,722	2,778	228,159	931,503
	2018	1,186,977	45,167	44,721	1,187,423	2,805	233,184	944,458
Argentina	2015	145,363	10,320	55	155,628	3,613	26,508	129,122
	2016	146,353	11,078	327	157,104	3,611	28,324	128,781
	2017	145,618	10,529	69	156,078	3,552	27,078	129,001
	2018	152,224	10,030	280	161,974	3,651	27,990	128,744
Bolivia (Plur. State of)	2015	9,034	..	..	9,034	831	973	7,875
	2016	9,313	..	..	9,313	844	1,102	8,201
	2017	9,627	..	..	9,627	860	1,223	8,375
	2018	9,883	..	..	9,883	871	1,472	8,450
Brazil	2015	581,228	34,642	219	615,651	3,011	122,963	492,687
	2016	578,897	41,313	518	619,692	3,006	128,089	491,605
	2017	589,326	36,511	156	625,681	3,010	127,259	498,420
	2018	601,396	34,980	1	636,375	3,038	129,435	506,939
Chile	2015	75,387	0	..	75,387	4,195	7,708	67,007
	2016	79,308	0	2	79,306	4,355	6,386	70,171
	2017	79,416	0	39	79,377	4,298	7,289	69,622
	2018	82,313	0	..	82,313	4,395	6,623	73,034
Colombia	2015	78,596	45	460	78,181	1,645	14,753	59,858
	2016	76,800	378	45	77,133	1,601	14,629	60,149
	2017	79,279	78	9	79,348	1,622	13,464	61,575
	2018	79,964	122	16	80,070	1,612	16,527	61,842
Ecuador	2015	25,950	512	46	26,416	1,629	3,866	22,549
	2016	27,314	82	402	26,994	1,637	3,955	23,038
	2017	28,033	19	212	27,840	1,659	3,899	23,972
	2018	29,198	..	..	29,198	1,709	4,159	24,908
Falkland Is. (Malvinas)	2015	19	..	..	19	6,638	*1	*18
	2016	21	..	..	21	7,083	*3	*18
	2017	20	..	..	20	6,347	*2	*18
	2018	19	..	..	19	5,924	*2	*18
Guyana	2015	1,004	..	..	1,004	1,308	225	789
	2016	1,081	..	..	1,081	1,402	255	826
	2017	1,105	..	..	1,105	1,425	245	859
	2018	1,136	..	..	1,136	1,459	268	868

Table 33

Electricity supply and consumption

Gigawatt-hours and kilowatt-hours per capita

Country or area	Year	Production	Imports	Exports	Supply		Consumption	
					Total	Per capita	EIOU+losses	TFC
Paraguay	2015	55,744	..	41,127	14,618	2,185	4,041	10,576
	2016	63,771	..	48,415	15,356	2,266	4,344	11,012
	2017	59,685	..	43,635	16,051	2,337	4,496	11,555
	2018	59,212	..	42,205	17,007	2,445	4,503	12,504
Peru	2015	48,277	1	55	48,223	1,583	5,891	42,334
	2016	52,720	22	38	52,704	1,704	7,315	45,390
	2017	52,743	17	0	52,760	1,678	6,295	46,464
	2018	54,982	21	..	55,003	1,719	6,712	48,293
Suriname	2015	2,084	..	..	2,084	3,727	312	1,772
	2016	2,027	..	..	2,027	3,588	250	1,772
	2017	2,117	..	..	2,117	3,712	310	1,773
	2018	2,288	..	..	2,288	3,972	504	1,783
Uruguay	2015	13,731	2	1,321	12,411	3,638	1,986	10,537
	2016	13,886	25	779	13,131	3,835	2,118	11,113
	2017	14,364	3	1,462	12,905	3,755	2,088	10,873
	2018	14,624	14	1,195	13,443	3,897	2,089	11,489
Venezuela (Bolivar. Rep.)	2015	128,891	0	974	127,917	4,252	43,536	87,680
	2016	118,206	0	1,107	117,099	3,923	36,536	81,558
	2017	103,878	0	1,064	102,814	3,497	34,510	68,995
	2018	99,737	..	1,023	98,714	3,417	32,900	65,586
Asia	2015	11,865,703	99,651	78,420	11,886,935	2,681	1,937,419	9,873,312
	2016	12,389,955	104,975	90,213	12,404,717	2,771	2,050,057	10,303,513
	2017	13,019,294	109,126	104,505	13,023,915	2,882	2,189,493	10,809,296
	2018	13,775,576	113,419	102,831	13,786,164	3,023	2,259,652	11,529,920
Afghanistan	2015	1,339	3,779	..	5,118	149	*965	*3,888
	2016	1,394	4,333	..	5,726	162	*1,058	*4,386
	2017	1,420	4,611	..	6,031	166	*1,120	*4,515
	2018	1,266	4,986	..	6,252	168	*1,077	*4,740
Armenia	2015	7,799	174	1,424	6,549	2,239	1,181	5,372
	2016	7,315	275	1,229	6,361	2,166	1,033	5,334
	2017	7,765	319	1,440	6,645	2,257	1,022	5,623
	2018	7,791	204	1,627	6,368	2,157	965	5,403
Azerbaijan	2015	24,688	108	265	24,531	2,549	6,805	17,619
	2016	24,953	114	1,096	23,971	2,462	6,310	17,618
	2017	24,320	108	1,283	23,146	2,351	6,029	17,085
	2018	25,229	131	1,445	23,915	2,404	6,081	17,812
Bahrain	2015	28,461	109	95	28,475	20,757	647	27,815
	2016	28,479	137	151	28,465	19,964	636	27,749
	2017	29,193	263	260	29,196	19,541	672	27,765
	2018	29,517	448	182	29,783	18,977	540	28,987
Bangladesh	2015	59,103	3,583	..	62,686	401	10,441	51,757
	2016	68,909	4,051	..	72,960	462	11,059	59,180
	2017	73,249	4,935	..	78,185	490	11,832	65,861
	2018	78,612	5,070	..	83,682	519	12,864	70,409
Bhutan	2015	7,748	125	5,721	2,151	2,955	67	2,057
	2016	7,954	84	5,763	2,275	3,088	*266	2,009
	2017	7,730	92	5,701	2,121	2,845	59	2,186
	2018	6,960	134	4,581	2,514	3,332	277	2,186
Brunei Darussalam	2015	4,200	..	..	4,200	10,123	1,035	3,391
	2016	4,270	..	..	4,270	10,172	1,043	3,227
	2017	4,157	..	..	4,157	9,793	1,043	3,112
	2018	4,294	..	..	4,294	10,010	1,044	3,250

Table 33

Electricity supply and consumption

Gigawatt-hours and kilowatt-hours per capita

Country or area	Year	Production	Imports	Exports	Supply		Consumption	
					Total	Per capita	EIOU+losses	TFC
Cambodia	2015	4,397	1,526	..	5,923	382	939	4,984
	2016	5,594	1,583	..	7,177	455	1,122	6,053
	2017	6,998	1,480	..	8,478	530	1,704	6,774
	2018	8,173	1,567	..	9,740	599	1,525	8,215
China	2015	5,814,573	6,210	18,654	5,802,129	4,124	970,593	4,831,403
	2016	6,145,886	6,185	18,907	6,133,164	4,337	1,031,448	5,101,661
	2017	6,530,689	6,423	19,470	6,517,642	4,587	1,111,236	5,406,407
	2018	7,166,133	5,688	20,906	7,150,915	5,009	1,149,860	6,000,960
China, Hong Kong SAR	2015	37,924	11,742	1,187	48,479	6,746	4,567	43,912
	2016	38,154	11,621	1,205	48,570	6,705	4,542	44,028
	2017	36,970	12,576	1,341	48,205	6,598	4,373	43,832
	2018	36,565	12,599	556	48,608	6,594	4,303	44,305
China, Macao SAR	2015	962	4,054	..	5,016	8,331	185	4,831
	2016	988	4,306	..	5,294	8,639	218	5,076
	2017	1,465	3,952	..	5,417	8,701	207	5,209
	2018	656	4,911	..	5,567	8,814	209	5,567
Cyprus	2015	4,533	..	..	4,533	3,904	443	4,091
	2016	4,887	..	..	4,887	4,176	487	4,399
	2017	5,004	..	..	5,004	4,242	459	4,541
	2018	5,061	..	..	5,061	4,256	397	4,664
Georgia	2015	10,833	699	660	10,872	2,702	966	9,907
	2016	11,574	1,329	1,409	11,494	2,862	1,007	10,487
	2017	11,531	1,751	940	12,343	3,079	1,134	11,208
	2018	12,149	1,522	602	13,069	3,265	1,113	11,937
India	2015	1,354,382	5,244	5,150	1,354,476	1,034	325,460	1,029,080
	2016	1,432,358	5,617	6,710	1,431,265	1,081	349,710	1,066,268
	2017	1,490,293	5,611	7,203	1,488,701	1,112	365,645	1,130,328
	2018	1,521,785	4,657	8,494	1,517,948	1,122	382,968	1,158,311
Indonesia	2015	267,287	13	..	267,300	1,035	34,895	212,767
	2016	233,367	1	..	233,368	892	32,618	215,781
	2017	*283,647	1,120	..	*284,767	*1,076	38,955	244,637
	2018	293,203	..	..	293,203	1,095	44,503	251,796
Iran (Islamic Rep. of)	2015	280,635	4,148	6,822	277,961	3,541	44,865	232,640
	2016	289,116	4,221	6,688	286,649	3,603	44,734	240,452
	2017	307,992	3,852	8,172	303,672	3,764	45,780	251,717
	2018	307,968	2,587	6,295	304,260	3,720	47,668	259,753
Iraq	2015	*68,745	13,104	..	*81,849	*2,301	32,944	42,035
	2016	80,087	11,965	..	92,052	2,514	51,038	38,733
	2017	83,947	11,787	..	95,734	2,549	56,714	38,377
	2018	82,507	21,793	..	104,300	2,714	57,548	39,594
Israel	2015	64,226	..	5,197	59,029	7,399	5,169	54,022
	2016	66,976	..	5,553	61,423	7,575	5,731	55,688
	2017	67,675	..	5,649	62,026	7,524	5,442	56,293
	2018	68,893	..	5,863	63,030	7,520	5,643	57,481
Japan	2015	1,058,748	..	..	1,058,748	8,272	91,743	949,492
	2016	1,061,874	..	..	1,061,874	8,311	99,780	949,785
	2017	1,071,200	..	..	1,071,200	8,401	96,592	964,732
	2018	1,057,755	..	..	1,057,755	8,316	100,960	945,534
Jordan	2015	19,012	604	50	19,566	2,111	2,971	16,177
	2016	*19,627	334	46	*19,915	*2,084	2,791	16,700
	2017	19,432	51	57	19,426	1,985	2,730	17,504
	2018	18,859	188	94	18,953	1,902	2,714	17,494

Table 33

Electricity supply and consumption

Gigawatt-hours and kilowatt-hours per capita

Country or area	Year	Production	Imports	Exports	Supply		Consumption	
					Total	Per capita	EIOU+losses	TFC
Kazakhstan	2015	106,468	1,618	1,614	106,472	6,059	38,591	68,198
	2016	106,626	1,319	2,572	105,373	5,910	39,483	65,898
	2017	103,128	1,327	5,692	98,763	5,463	37,214	69,576
	2018	107,060	1,561	5,042	103,579	5,654	23,470	80,328
Korea, Dem.Ppl's.Rep.	2015	13,748	..	..	13,748	546	3,476	10,272
	2016	16,939	..	..	16,939	669	4,282	12,657
	2017	14,915	..	..	14,915	587	3,770	11,146
	2018	15,431	..	..	15,431	604	3,900	11,530
Korea, Republic of	2015	552,697	..	..	552,697	10,875	57,870	495,311
	2016	562,603	..	..	562,603	11,035	58,581	517,271
	2017	566,881	..	..	566,881	11,094	60,499	523,238
	2018	590,108	..	..	590,108	11,532	60,662	531,373
Kuwait	2015	68,288	133	175	68,246	17,793	28,810	39,436
	2016	70,085	171	213	70,043	17,702	29,622	40,421
	2017	72,790	553	390	72,953	17,986	30,470	42,483
	2018	74,107	202	535	73,774	17,831	31,013	42,761
Kyrgyzstan	2015	13,030	729	184	13,575	2,278	2,988	10,587
	2016	13,262	330	199	13,393	2,205	3,105	10,160
	2017	15,514	..	1,215	14,299	2,310	3,162	11,008
	2018	15,728	..	755	14,973	2,375	3,109	11,864
Lao People's Dem. Rep.	2015	16,730	2,050	11,559	7,221	1,071	2,794	4,239
	2016	25,068	787	19,650	6,206	906	1,675	4,660
	2017	31,550	500	24,901	7,149	1,028	2,119	*5,030
	2018	*34,410	302	27,216	*7,496	*1,062	2,354	*5,142
Lebanon	2015	20,720	268	..	20,988	3,213	*1,903	*19,085
	2016	21,457	69	..	21,526	3,206	*1,963	*19,563
	2017	23,411	534	..	23,945	3,511	*2,192	*21,753
	2018	23,150	11	..	23,161	3,377	*2,128	*21,033
Malaysia	2015	150,123	13	3	150,133	4,960	16,578	132,199
	2016	156,665	33	694	156,004	5,084	11,419	144,024
	2017	164,509	7	1,124	163,392	5,253	16,876	146,520
	2018	170,578	20	1,509	169,089	5,363	14,805	152,866
Maldives	2015	619	..	..	619	1,362	*37	*582
	2016	672	..	..	672	1,413	*41	*631
	2017	725	..	..	725	1,461	*41	*684
	2018	772	..	..	772	1,497	*42	*730
Mongolia	2015	5,513	1,417	51	6,879	2,294	1,561	5,284
	2016	5,667	1,446	36	7,077	2,316	1,566	5,446
	2017	6,027	1,574	26	7,576	2,433	1,627	5,949
	2018	6,535	1,666	27	8,174	2,578	1,725	6,450
Myanmar	2015	15,970	..	..	15,970	303	2,573	13,397
	2016	17,867	..	..	17,867	337	2,385	15,355
	2017	20,056	..	..	20,056	376	2,803	17,115
	2018	26,714	..	2,356	24,358	454	5,814	18,544
Nepal	2015	3,460	1,778	3	5,235	194	1,358	3,867
	2016	4,244	2,175	3	6,416	235	1,481	4,926
	2017	4,639	2,582	3	7,218	261	1,498	5,710
	2018	4,913	2,813	35	7,691	274	1,216	6,503
Oman	2015	32,762	..	..	32,762	7,677	3,850	28,912
	2016	34,232	..	..	34,232	7,642	3,873	30,359
	2017	36,130	..	..	36,130	7,743	3,780	32,350
	2018	37,671	..	..	37,671	7,800	4,124	33,548

Electricity supply and consumption

Gigawatt-hours and kilowatt-hours per capita

Country or area	Year	Production	Imports	Exports	Supply		Consumption	
					Total	Per capita	EIOU+losses	TFC
Other Asia	2015	258,173	..	..	258,173	10,959	27,138	231,030
	2016	264,137	..	..	264,137	11,184	27,600	236,504
	2017	270,288	..	..	270,288	11,417	28,680	241,543
	2018	275,577	..	..	275,577	11,615	28,168	247,406
Pakistan	2015	110,128	552	..	110,680	555	21,064	90,429
	2016	115,502	655	..	116,157	570	22,325	95,530
	2017	123,533	433	..	123,966	596	24,408	103,273
	2018	134,981	297	..	135,278	637	28,288	*107,267
Philippines	2015	82,905	..	..	82,905	812	15,063	67,808
	2016	91,789	..	..	91,789	885	17,601	74,154
	2017	95,747	..	..	95,747	910	17,917	77,793
	2018	100,123	..	..	100,123	939	17,830	82,384
Qatar	2015	41,499	..	..	41,499	16,174	5,122	36,378
	2016	42,307	..	..	42,307	15,939	5,174	37,134
	2017	45,555	..	..	45,555	16,719	5,526	40,030
	2018	47,913	..	..	47,913	17,224	6,045	41,868
Saudi Arabia	2015	338,331	461	512	338,280	10,665	45,842	273,212
	2016	345,104	343	1,062	344,384	10,615	47,655	270,946
	2017	355,079	3	38	355,044	10,726	64,286	264,347
	2018	343,778	2	36	343,744	10,199	78,092	265,652
Singapore	2015	50,341	..	..	50,341	9,002	2,497	47,514
	2016	51,733	..	..	51,733	9,150	2,577	48,626
	2017	52,394	..	..	52,394	9,179	2,585	49,578
	2018	53,074	..	..	53,074	9,218	2,472	50,449
Sri Lanka	2015	13,227	..	..	13,227	633	1,486	11,741
	2016	14,363	..	..	14,363	683	1,631	12,715
	2017	15,004	..	..	15,004	710	1,516	13,489
	2018	15,985	..	..	15,985	753	2,019	14,119
State of Palestine	2015	515	5,413	..	5,928	1,309	711	5,216
	2016	537	5,473	..	6,010	1,297	721	5,289
	2017	546	5,577	..	6,123	1,290	735	5,388
	2018	420	5,916	..	6,336	1,303	760	5,576
Syrian Arab Republic	2015	17,982	..	262	17,720	985	4,682	13,038
	2016	18,202	..	67	18,135	1,038	4,937	13,198
	2017	18,412	..	543	17,869	1,045	4,519	13,351
	2018	18,210	..	543	17,667	1,043	4,463	13,205
Tajikistan	2015	17,162	63	1,400	15,825	1,872	2,790	12,446
	2016	17,232	103	1,427	15,908	1,836	2,846	12,922
	2017	18,144	110	1,421	16,833	1,896	*3,170	13,774
	2018	19,742	559	2,945	17,356	1,907	*3,172	13,890
Thailand	2015	176,488	14,441	2,267	188,662	2,746	15,120	174,053
	2016	187,554	19,853	1,385	206,022	2,987	15,525	184,960
	2017	181,713	24,455	1,106	205,062	2,963	14,970	185,371
	2018	182,296	26,665	997	207,964	2,995	15,726	188,048
Timor-Leste	2015	353	..	..	353	295	*98	254
	2016	415	..	..	415	340	*102	313
	2017	430	..	..	430	345	*108	*321
	2018	453	..	..	453	357	*117	335
Turkey	2015	261,783	7,136	3,195	265,724	3,384	51,223	214,501
	2016	274,408	6,330	1,452	279,286	3,499	51,116	228,170
	2017	297,277	2,728	3,304	296,701	3,658	50,946	245,755
	2018	304,801	2,477	3,112	304,166	3,694	49,232	254,934

Table 33

Electricity supply and consumption

Gigawatt-hours and kilowatt-hours per capita

Country or area	Year	Production	Imports	Exports	Supply		Consumption	
					Total	Per capita	EIOU+losses	TFC
Turkmenistan	2015	22,534	..	3,201	19,333	3,474	6,860	12,473
	2016	22,534	..	3,201	19,333	3,414	6,860	12,473
	2017	22,534	..	3,201	19,333	3,358	6,860	12,473
	2018	22,534	..	3,201	19,333	3,304	6,860	12,473
United Arab Emirates	2015	127,366	234	249	127,351	13,749	13,570	111,076
	2016	129,596	1,141	506	130,231	13,912	12,089	*113,929
	2017	134,553	514	617	134,450	14,172	19,205	115,245
	2018	135,997	488	517	135,968	14,118	13,162	122,836
Uzbekistan	2015	57,414	5,520	6,810	56,124	1,815	*4,095	47,350
	2016	58,634	5,278	6,774	57,138	1,817	*4,192	48,503
	2017	60,323	6,945	7,585	59,684	1,867	*4,344	50,350
	2018	62,408	2,233	2,627	62,014	1,910	*4,594	53,515
Viet Nam	2015	163,494	2,604	1,711	164,387	1,774	*18,286	143,683
	2016	181,653	3,313	2,215	182,751	1,952	*19,001	159,791
	2017	198,499	2,352	1,825	199,026	2,104	19,267	174,653
	2018	213,121	1,722	733	214,111	2,241	20,794	192,701
Yemen	2015	6,288	..	..	6,288	237	2,502	2,500
	2016	5,105	..	..	5,105	188	1,999	2,371
	2017	4,309	..	..	4,309	155	1,651	2,293
	2018	3,609	..	..	3,609	127	1,237	2,192
Europe	2015	4,815,525	488,861	494,054	4,810,333	6,455	905,475	3,883,709
	2016	4,864,648	450,986	459,231	4,856,402	6,506	913,653	3,926,401
	2017	4,885,379	462,819	465,013	4,883,185	6,532	902,612	3,967,657
	2018	4,906,761	461,083	462,907	4,904,937	6,552	920,069	3,973,359
Albania	2015	5,895	2,355	956	7,294	2,523	1,397	5,897
	2016	7,136	1,827	1,869	7,094	2,458	2,127	5,095
	2017	4,526	2,915	0	7,441	2,580	1,483	5,956
	2018	8,552	850	1,764	7,639	2,650	1,315	6,085
Andorra	2015	100	471	0	570	7,307	68	484
	2016	99	485	0	584	7,553	68	491
	2017	*106	470	0	576	7,476	67	490
	2018	*139	439	0	578	7,512	68	492
Austria	2015	65,299	29,389	19,328	75,360	8,683	14,176	61,185
	2016	68,308	26,366	19,207	75,467	8,627	13,428	62,038
	2017	71,325	29,362	22,817	77,870	8,829	14,982	62,892
	2018	68,597	28,076	19,129	77,544	8,721	14,469	63,074
Belarus	2015	34,082	6,104	3,482	36,704	3,888	7,416	29,288
	2016	33,566	6,319	3,298	36,587	3,873	7,211	29,376
	2017	34,515	5,992	3,407	37,100	3,926	7,148	29,952
	2018	38,927	3,257	4,248	37,936	4,013	7,275	30,661
Belgium	2015	69,829	23,714	2,715	90,828	8,046	9,220	81,668
	2016	85,813	14,648	8,465	91,996	8,102	10,147	82,246
	2017	86,775	14,189	8,168	92,796	8,126	10,579	82,278
	2018	75,095	21,636	4,308	92,423	8,049	9,889	82,755
Bosnia and Herzegovina	2015	15,629	3,872	6,007	13,494	3,935	2,819	10,675
	2016	17,767	3,084	6,841	14,010	4,137	2,922	11,088
	2017	16,439	3,346	5,187	14,598	4,356	3,187	11,398
	2018	19,160	3,092	7,698	14,554	4,379	3,098	11,456
Bulgaria	2015	49,228	4,251	14,826	38,653	5,369	10,313	28,326
	2016	45,277	4,568	10,940	38,905	5,440	10,063	28,898
	2017	45,612	3,705	9,186	40,131	5,650	10,177	29,907
	2018	46,837	2,223	10,030	39,030	5,535	9,050	29,895

Electricity supply and consumption

Gigawatt-hours and kilowatt-hours per capita

Country or area	Year	Production	Imports	Exports	Supply		Consumption	
					Total	Per capita	EIOU+losses	TFC
Croatia	2015	11,403	13,158	6,369	18,192	4,298	2,849	15,343
	2016	12,820	12,398	6,867	18,351	4,360	3,051	15,300
	2017	11,986	12,158	5,204	18,940	4,528	2,961	15,982
	2018	13,632	12,693	7,306	19,019	4,576	2,844	16,174
Czechia	2015	83,892	16,146	28,661	71,377	6,733	14,611	54,477
	2016	83,309	13,817	24,791	72,335	6,812	14,339	55,852
	2017	87,049	15,072	28,109	74,012	6,955	14,793	57,377
	2018	88,032	11,573	25,481	74,124	6,950	14,544	58,004
Denmark	2015	28,942	15,645	9,733	34,854	6,127	3,725	30,809
	2016	30,541	14,976	9,919	35,598	6,233	4,283	31,095
	2017	31,042	15,218	10,655	35,605	6,211	4,013	31,288
	2018	30,377	15,634	10,409	35,602	6,189	4,206	31,084
Estonia	2015	10,398	5,452	6,377	9,473	7,202	2,621	6,852
	2016	12,186	3,577	5,614	10,149	7,709	3,000	7,299
	2017	12,918	2,281	5,015	10,184	7,719	2,952	7,232
	2018	12,360	3,053	4,950	10,463	7,909	2,665	7,491
Faeroe Islands	2015	314	..	..	314	6,543	*26	288
	2016	317	..	..	317	6,588	*26	291
	2017	334	..	..	334	6,918	*28	306
	2018	352	..	..	352	7,258	*31	321
Finland	2015	68,599	21,459	5,122	84,936	15,496	6,068	78,497
	2016	68,757	22,110	3,159	87,708	15,954	6,367	80,953
	2017	67,523	22,204	1,779	87,948	15,958	6,484	81,039
	2018	70,263	22,548	2,612	90,199	16,333	7,006	82,769
France	2015	579,542	9,961	74,024	515,479	7,736	74,450	438,193
	2016	564,181	19,903	61,404	522,680	7,817	75,573	445,979
	2017	561,935	21,119	61,248	521,806	7,781	76,653	442,702
	2018	581,943	13,562	76,534	518,971	7,719	77,316	440,286
Germany	2015	648,310	37,008	85,290	600,028	7,336	85,080	514,948
	2016	650,450	28,338	78,863	599,925	7,299	82,970	516,955
	2017	653,723	27,842	80,301	601,264	7,274	82,311	518,953
	2018	643,159	31,727	80,463	594,423	7,151	81,489	512,934
Gibraltar	2015	224	..	..	224	6,639	11	213
	2016	214	..	..	214	6,346	10	204
	2017	180	..	..	180	5,341	10	171
	2018	215	..	..	215	6,380	11	204
Greece	2015	51,874	11,081	1,473	61,482	5,768	10,695	50,787
	2016	54,439	9,833	1,037	63,235	5,957	9,872	53,363
	2017	55,266	8,696	2,459	61,503	5,819	7,534	53,971
	2018	53,263	8,550	2,272	59,541	5,659	10,071	49,470
Guernsey	2015	157	218	..	375	6,023	28	347
	2016	87	285	..	372	5,985	23	349
	2017	77	294	..	371	5,983	17	354
	2018	54	319	..	372	5,979	25	348
Hungary	2015	30,360	19,935	6,249	44,046	4,505	7,053	36,291
	2016	31,902	17,951	5,240	44,613	4,574	7,030	37,152
	2017	32,885	19,803	6,925	45,763	4,703	6,796	38,493
	2018	32,004	18,613	4,265	46,352	4,775	6,698	39,426
Iceland	2015	18,799	..	..	18,799	56,926	1,012	17,470
	2016	18,550	..	..	18,550	55,838	1,043	17,303
	2017	19,239	..	..	19,239	57,534	1,152	17,893
	2018	19,830	..	..	19,830	58,893	1,128	18,487

Table 33

Electricity supply and consumption

Gigawatt-hours and kilowatt-hours per capita

Country or area	Year	Production	Imports	Exports	Supply		Consumption	
					Total	Per capita	EIOU+losses	TFC
Ireland	2015	28,420	1,752	1,079	29,093	6,253	3,542	25,073
	2016	30,539	871	1,583	29,827	6,352	3,631	25,574
	2017	30,898	1,116	1,795	30,219	6,358	3,504	25,851
	2018	31,118	1,622	1,649	31,091	6,452	3,630	27,145
Isle of Man	2015	435	63	87	411	4,938	*30	367
	2016	433	65	105	393	4,718	*30	362
	2017	467	41	95	413	4,936	*30	363
	2018	493	*65	131	427	5,084	61	362
Italy	2015	282,994	50,849	4,471	329,372	5,434	41,889	287,483
	2016	289,768	43,181	6,154	326,795	5,384	40,768	286,027
	2017	295,833	42,895	5,134	333,594	5,495	41,628	291,966
	2018	289,710	47,170	3,271	333,609	5,500	40,528	293,080
Jersey	2015	48	625	..	673	6,525	52	622
	2016	70	614	..	684	6,530	47	637
	2017	49	626	..	674	6,325	53	620
	2018	*45	637	..	681	6,296	49	633
Kosovo	2015	6,119	684	553	6,250	3,495	1,617	4,622
	2016	5,981	557	1,064	5,474	3,080	1,604	3,871
	2017	5,919	1,242	880	6,281	3,507	1,935	4,337
	2018	5,917	825	677	6,065	3,375	1,662	4,398
Latvia	2015	5,533	5,246	3,425	7,354	3,681	891	6,461
	2016	6,425	4,828	3,795	7,458	3,778	974	6,482
	2017	7,531	4,073	4,137	7,467	3,827	980	6,485
	2018	6,725	5,174	4,265	7,634	3,959	970	6,661
Liechtenstein	2015	70	325	..	395	10,566	0	395
	2016	90	309	..	399	10,593	0	399
	2017	93	314	..	407	10,722	0	407
	2018	89	321	..	410	..	0	410
Lithuania	2015	4,933	7,938	730	12,141	4,141	2,797	9,342
	2016	4,266	11,106	2,831	12,541	4,340	2,788	9,750
	2017	4,187	11,926	3,249	12,864	4,521	2,802	10,058
	2018	3,514	12,848	3,215	13,147	4,693	2,745	10,403
Luxembourg	2015	2,766	7,519	1,919	8,366	14,762	2,137	6,224
	2016	2,196	7,718	1,420	8,494	14,663	2,129	6,366
	2017	2,235	7,567	1,389	8,413	14,213	2,020	6,394
	2018	2,201	7,553	1,392	8,362	13,839	1,902	6,424
Malta	2015	1,305	1,054	..	2,359	5,441	243	2,114
	2016	857	1,525	..	2,382	5,462	266	2,116
	2017	1,652	897	36	2,513	5,738	193	2,319
	2018	1,962	631	11	2,582	5,878	193	2,391
Montenegro	2015	3,003	1,040	517	3,526	5,624	717	2,679
	2016	3,141	1,210	906	3,445	5,492	659	2,671
	2017	2,483	1,537	417	3,603	5,741	631	2,855
	2018	3,679	780	976	3,483	5,548	637	2,847
Netherlands	2015	110,389	30,760	22,012	119,137	7,034	15,846	103,833
	2016	115,211	24,258	19,343	120,126	7,074	15,597	105,461
	2017	117,264	22,458	18,952	120,770	7,095	14,961	106,519
	2018	114,466	26,755	18,785	122,436	7,177	14,823	107,967
North Macedonia	2015	5,646	2,656	143	8,159	3,924	1,524	6,635
	2016	5,630	2,191	160	7,660	3,681	1,467	6,193
	2017	5,600	2,294	311	7,583	3,642	1,481	6,102
	2018	5,607	2,297	377	7,527	3,614	1,421	6,105

Electricity supply and consumption

Gigawatt-hours and kilowatt-hours per capita

Country or area	Year	Production	Imports	Exports	Supply		Consumption	
					Total	Per capita	EIOU+losses	TFC
Norway	2015	144,546	7,371	22,016	129,901	24,982	17,289	111,077
	2016	149,042	5,740	22,151	132,631	25,258	18,205	113,645
	2017	149,480	6,111	21,276	134,315	25,360	19,197	113,696
	2018	146,889	8,340	18,489	136,740	25,617	19,892	115,906
Poland	2015	164,944	14,459	14,793	164,610	4,328	36,791	127,819
	2016	166,635	14,017	12,018	168,634	4,439	35,795	132,839
	2017	170,467	13,271	10,984	172,754	4,552	36,965	135,788
	2018	170,038	13,816	8,121	175,733	4,634	35,263	140,471
Portugal	2015	52,420	8,077	5,811	54,686	5,274	8,871	45,812
	2016	60,328	4,616	9,701	55,243	5,350	8,852	46,395
	2017	59,434	5,506	8,190	56,750	5,516	10,109	46,642
	2018	59,635	5,668	8,325	56,978	5,555	9,020	47,960
Republic of Moldova	2015	939	3,315	..	4,254	1,045	568	3,686
	2016	906	3,325	..	4,231	1,041	609	3,622
	2017	896	3,412	..	4,308	1,061	604	3,704
	2018	952	3,500	..	4,452	1,099	611	3,841
Romania	2015	66,296	4,492	11,220	59,568	2,990	16,434	43,030
	2016	65,103	4,177	9,194	60,086	3,035	16,517	43,257
	2017	64,296	4,842	7,735	61,403	3,124	16,562	44,701
	2018	64,874	3,697	6,241	62,330	3,195	16,530	45,568
Russian Federation	2015	1,067,544	6,586	18,244	1,055,886	7,283	323,547	732,339
	2016	1,090,973	3,194	17,694	1,076,473	7,410	329,125	743,971
	2017	1,094,289	6,410	17,006	1,083,693	7,447	319,156	760,885
	2018	1,115,093	5,177	17,779	1,102,491	7,565	339,002	759,582
Serbia	2015	38,298	6,303	7,221	37,380	5,273	10,191	27,189
	2016	39,342	5,068	6,990	37,420	5,288	9,818	27,602
	2017	37,045	6,549	5,724	37,870	5,380	9,746	28,124
	2018	37,426	6,400	6,284	37,542	5,359	9,493	28,049
Slovakia	2015	26,903	14,999	12,611	29,291	5,389	4,905	24,371
	2016	27,064	13,249	10,598	29,715	5,460	4,712	24,987
	2017	27,738	15,563	12,535	30,766	5,647	4,940	25,803
	2018	26,971	12,428	8,746	30,653	5,621	4,684	25,935
Slovenia	2015	15,100	9,045	9,093	15,052	7,267	2,264	12,788
	2016	16,500	8,359	9,535	15,324	7,388	2,298	13,025
	2017	16,326	9,133	9,648	15,811	7,615	2,280	13,529
	2018	16,330	8,930	9,432	15,828	7,618	2,111	13,717
Spain	2015	280,911	14,956	15,089	280,778	6,016	48,696	232,038
	2016	274,772	21,845	14,178	282,439	6,056	49,273	232,515
	2017	275,726	23,762	14,593	284,895	6,107	45,679	239,101
	2018	274,452	24,018	12,916	285,554	6,116	46,545	238,465
Sweden	2015	162,112	9,294	31,894	139,512	14,287	13,179	124,859
	2016	156,010	14,287	26,022	144,275	14,668	15,336	127,496
	2017	164,250	11,896	30,888	145,258	14,665	16,460	127,254
	2018	163,400	12,202	29,425	146,177	14,659	17,327	127,562
Switzerland	2015	67,720	34,033	35,068	66,685	8,001	8,438	58,239
	2016	63,175	34,096	30,173	67,098	7,971	8,859	58,230
	2017	63,089	36,496	30,946	68,639	8,081	10,155	58,470
	2018	69,107	31,020	32,607	67,520	7,885	9,872	57,645
Ukraine	2015	163,682	2,241	3,591	162,332	3,614	37,509	118,989
	2016	164,573	77	3,830	160,820	3,597	37,127	117,440
	2017	156,037	50	5,226	150,861	3,391	33,495	117,366
	2018	159,852	32	6,099	153,785	3,476	35,128	118,657

Table 33

Electricity supply and consumption

Gigawatt-hours and kilowatt-hours per capita

Country or area	Year	Production	Imports	Exports	Supply		Consumption	
					Total	Per capita	EIOU+losses	TFC
United Kingdom	2015	339,573	22,961	1,855	360,679	5,476	51,869	303,585
	2016	339,899	20,018	2,273	357,644	5,394	53,614	304,140
	2017	338,640	18,167	3,407	353,400	5,296	53,719	299,683
	2018	333,424	21,332	2,225	352,531	5,251	52,771	299,760
Oceania	2015	307,728	..	..	307,728	7,721	46,364	261,786
	2016	312,869	..	..	312,869	7,738	51,230	261,886
	2017	314,845	..	..	314,845	7,678	53,187	261,380
	2018	318,162	..	..	318,162	7,654	53,756	263,772
American Samoa	2015	161	..	..	161	2,887	20	141
	2016	170	..	..	170	3,043	23	147
	2017	167	..	..	167	2,998	19	*148
	2018	*168	..	..	*168	*3,030	*20	*149
Australia	2015	251,415	..	..	251,415	10,505	40,098	211,317
	2016	256,563	..	..	256,563	10,574	44,899	211,664
	2017	258,019	..	..	258,019	10,495	46,940	211,079
	2018	260,998	..	..	260,998	10,483	47,655	213,343
Cook Islands	2015	33	..	..	33	1,860	0	33
	2016	34	..	..	34	1,952	0	34
	2017	37	..	..	37	2,097	0	37
	2018	41	..	..	41	2,363	0	41
Fiji	2015	919	..	..	919	1,058	87	826
	2016	941	..	..	941	1,079	*95	842
	2017	1,017	..	..	1,017	1,159	*115	902
	2018	1,042	..	..	1,042	1,180	*135	*907
French Polynesia	2015	697	..	..	697	2,552	97	*600
	2016	700	..	..	700	2,550	77	*623
	2017	698	..	..	698	2,529	77	*621
	2018	696	..	..	696	2,505	76	*608
Guam	2015	1,702	..	..	1,702	10,516	162	1,540
	2016	1,720	..	..	1,720	10,554	146	1,574
	2017	1,760	..	..	1,760	10,713	150	1,610
	2018	1,715	..	..	1,715	10,344	148	1,567
Kiribati	2015	*29	..	..	*29	*265	*6	*23
	2016	*31	..	..	*31	*275	*6	*25
	2017	*31	..	..	*31	*272	*6	*25
	2018	*31	..	..	*31	*271	*6	*24
Marshall Islands	2015	*87	..	..	*87	*1,506	*11	*75
	2016	*88	..	..	*88	*1,516	*11	*76
	2017	*89	..	..	*89	*1,535	*12	*78
	2018	*90	..	..	*90	*1,532	*12	*78
Micronesia (Fed. States of)	2015	67	..	..	67	613	*21	46
	2016	*68	..	..	*68	*613	*22	*46
	2017	*67	..	..	*67	*603	*22	*46
	2018	*69	..	..	*69	*609	*23	*46
Nauru	2015	31	..	..	31	3,022	12	19
	2016	32	..	..	32	3,030	11	21
	2017	35	..	..	35	3,277	9	26
	2018	36	..	..	36	3,388	8	28
New Caledonia	2015	2,903	..	..	2,903	10,709	61	2,842
	2016	3,130	..	..	3,130	11,415	90	3,040
	2017	3,228	..	..	3,228	11,647	68	3,160
	2018	3,486	..	..	3,486	12,450	*65	3,421

Electricity supply and consumption

Gigawatt-hours and kilowatt-hours per capita

Country or area	Year	Production	Imports	Exports	Supply		Consumption	
					Total	Per capita	EIOU+losses	TFC
New Zealand	2015	44,224	..	..	44,224	9,584	4,945	39,708
	2016	43,698	..	..	43,698	9,379	4,889	39,063
	2017	44,192	..	..	44,192	9,398	5,007	38,908
	2018	44,380	..	..	44,380	9,357	4,912	38,847
Niue	2015	3	..	..	3	2,106	0	3
	2016	*3	..	..	*3	*2,110	0	*3
	2017	*3	..	..	*3	*2,109	0	*3
	2018	*4	..	..	*4	*2,403	*1	*3
Northern Mariana Islands	2015	*430	..	..	*430	*7,705	*96	*334
	2016	*387	..	..	*387	*6,884	*86	*301
	2017	*380	..	..	*380	*6,719	*85	*295
	2018	*390	..	..	*390	*6,855	*86	*304
Palau	2015	*90	..	..	*90	*5,083	*20	*67
	2016	*95	..	..	*95	*5,363	*21	*71
	2017	*95	..	..	*95	*5,347	*21	*74
	2018	*95	..	..	*95	*5,290	*22	*73
Papua New Guinea	2015	4,560	..	..	4,560	562	678	3,882
	2016	4,794	..	..	4,794	580	802	3,991
	2017	4,595	..	..	4,595	545	*597	*3,998
	2018	*4,482	..	..	*4,482	*521	*531	*3,951
Samoa	2015	134	..	..	134	693	19	115
	2016	149	..	..	149	768	19	130
	2017	154	..	..	154	790	19	*134
	2018	154	..	..	154	783	19	134
Solomon Islands	2015	97	..	..	97	160	*14	*83
	2016	105	..	..	105	169	*15	*90
	2017	108	..	..	108	170	*18	*90
	2018	110	..	..	110	168	*17	*93
Tonga	2015	55	..	..	55	550	6	*49
	2016	60	..	..	60	594	7	*53
	2017	62	..	..	62	608	8	*55
	2018	68	..	..	68	656	8	*58
Tuvalu	2015	6	..	..	6	572	1	6
	2016	7	..	..	7	658	1	7
	2017	8	..	..	8	695	1	7
	2018	*8	..	..	*8	*732	*2	*7
Vanuatu	2015	66	..	..	66	245	7	61
	2016	74	..	..	74	267	*6	69
	2017	80	..	..	80	280	*11	*68
	2018	*80	..	..	*80	*272	*9	*70
Wallis and Futuna Is.	2015	*18	..	..	*18	*1,496	*3	*16
	2016	*20	..	..	*20	*1,661	*3	*17
	2017	*20	..	..	*20	*1,648	*3	*17
	2018	*20	..	..	*20	*1,739	*3	*17

Production of heat – by type

Terajoules

Table Notes

Direct use geothermal represents heat used directly for district heating, agriculture etc. without a commercial transaction taking place.

Direct use solar thermal represents heat used for the production of domestic hot water or for the seasonal heating of swimming pools (e.g. flat plate collectors, mainly of the thermosyphon type) without a commercial transaction taking place.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description /classification, and xvi to xvii for the descriptions of relevant flows.

Figure 84: Heat production by region, 1990-2018

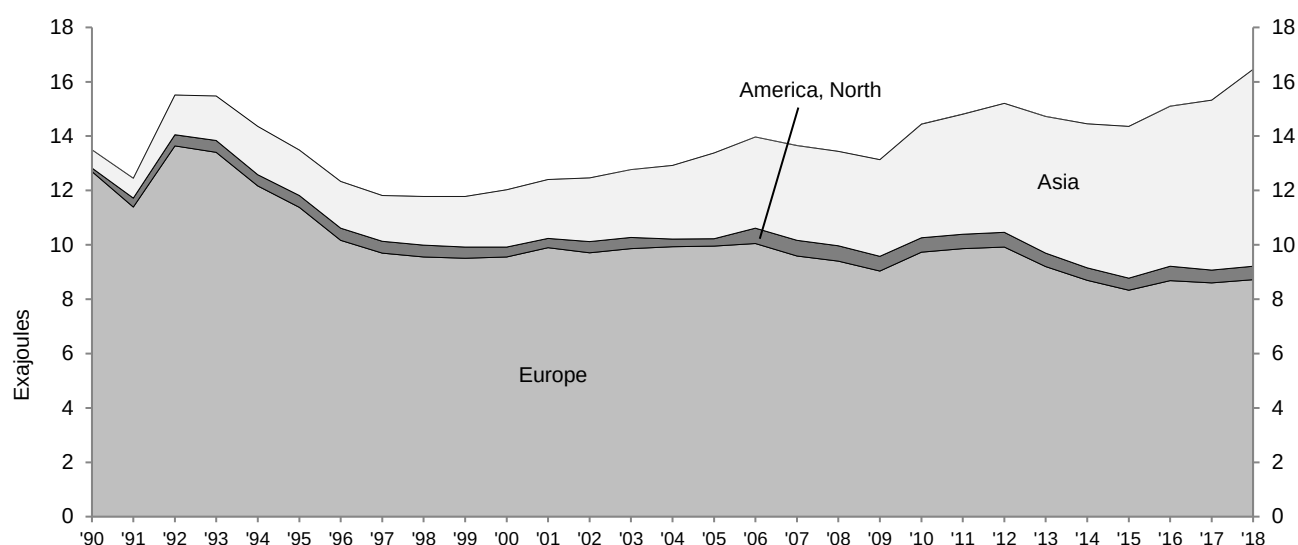


Figure 85: Major heat producing countries, 2018

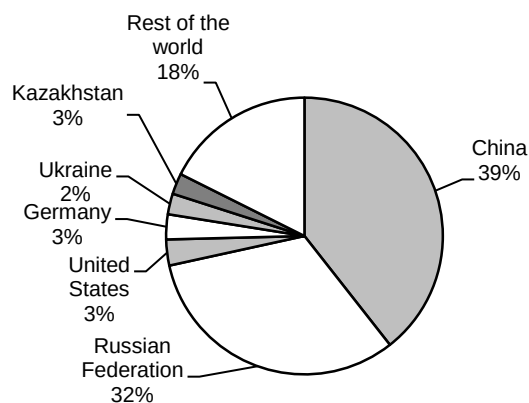


Figure 86: World heat production by type, 2018

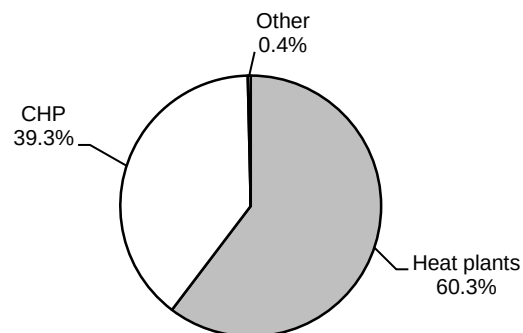


Table 34

Production of heat - by type

Terajoules

Country or area	Year	Combustible fuels	Geo-thermal	Solar thermal	Nuclear	Chemical sources	Heat pumps and electric boilers	Other sources	Direct use geothermal	Direct use solar thermal
World	2015	13,838,830	34,251	6,492	25,818	59,542	36,600	370,439	135,741	290,387
	2016	14,532,923	37,293	7,016	26,625	63,034	49,001	403,977	138,675	283,851
	2017	14,718,122	39,898	7,541	26,579	68,901	50,305	422,022	138,926	285,599
	2018	15,827,297	44,411	8,085	25,956	67,914	51,669	438,192	177,202	321,023
Africa	2015	9,403	..	..	..	3,466	..	..	..	6,635
	2016	9,403	..	..	..	3,730	..	..	..	7,124
	2017	..	..	..	..	3,880	..	..	..	8,900
	2018	..	..	..	..	5,094	..	..	..	7,831
Eswatini	2015	*9,403	..	..	..	..	..	..	..	..
	2016	*9,403	..	..	..	..	..	..	..	..
	2017	..	..	..	..	..	..	..	..	..
	2018	..	..	..	..	..	..	..	..	..
Namibia	2015	..	..	..	..	..	..	..	..	104
	2016	..	..	..	..	..	..	..	..	126
	2017	..	..	..	..	..	..	..	..	126
	2018	..	..	..	..	..	..	..	..	151
Senegal	2015	..	..	..	..	382	..	..	..	..
	2016	..	..	..	..	513	..	..	..	..
	2017	..	..	..	..	533	..	..	..	..
	2018	..	..	..	..	969	..	..	..	..
South Africa	2015	..	..	..	..	..	..	..	..	4,576
	2016	..	..	..	..	..	..	..	..	4,907
	2017	..	..	..	..	..	..	..	..	6,564
	2018	..	..	..	..	..	..	..	..	5,238
Tunisia	2015	..	..	..	..	3,084	..	..	..	1,955
	2016	..	..	..	..	3,217	..	..	..	2,091
	2017	..	..	..	..	3,347	..	..	..	2,210
	2018	..	..	..	..	4,125	..	..	..	2,442
America, North	2015	442,577	..	..	..	..	369	..	11,280	106,687
	2016	528,363	..	..	..	..	340	..	11,828	94,420
	2017	470,247	..	..	..	..	576	..	11,108	90,135
	2018	497,839	..	..	..	..	576	..	43,934	117,875
Canada	2015	23,734	..	..	..	..	..	..	..	1,760
	2016	19,628	..	..	..	..	..	..	..	1,760
	2017	19,294	..	..	..	..	..	..	..	1,797
	2018	19,892	..	..	..	..	..	..	..	1,797
Greenland	2015	*656	..	..	..	..	*369	..	..	..
	2016	*735	..	..	..	..	*340	..	..	..
	2017	*625	..	..	..	..	*576	..	..	..
	2018	*625	..	..	..	..	*576	..	..	..
Mexico	2015	..	..	..	..	..	..	..	..	9,087
	2016	..	..	..	..	..	..	..	..	10,180
	2017	..	..	..	..	..	..	..	..	10,888
	2018	..	..	..	..	..	..	..	..	11,977
United States	2015	418,187	..	..	..	..	..	..	11,280	95,840
	2016	508,000	..	..	..	..	..	..	11,828	82,480
	2017	450,328	..	..	..	..	..	..	11,108	77,450
	2018	477,322	..	..	..	..	..	..	43,934	104,101
America, South	2015	..	..	..	..	0	..	..	102	2,531
	2016	..	..	..	..	0	..	..	102	3,128
	2017	..	..	..	..	..	..	..	102	3,464
	2018	..	..	..	..	..	..	..	102	3,902

Table 34

Production of heat - by type

Terajoules

Country or area	Year	Combustible fuels	Geo-thermal	Solar thermal	Nuclear	Chemical sources	Heat pumps and electric boilers	Other sources	Direct use geothermal	Direct use solar thermal
Chile	2015	..	..	..	..	0	..	..	..	1,458
	2016	..	..	..	..	0	..	..	..	1,739
	2017	..	..	..	..	..	..	..	..	2,082
	2018	..	..	..	..	..	..	..	..	2,465
Ecuador	2015	..	..	..	..	..	..	..	*102	..
	2016	..	..	..	..	..	..	..	*102	..
	2017	..	..	..	..	..	..	..	*102	..
	2018	..	..	..	..	..	..	..	*102	..
Peru	2015	..	..	..	..	..	..	..	..	1,073
	2016	..	..	..	..	..	..	..	..	1,389
	2017	..	..	..	..	..	..	..	..	1,382
	2018	..	..	..	..	..	..	..	..	1,437
Asia	2015	5,560,170	0	5,393	..	2,667	5,867	9,406	91,310	71,545
	2016	5,866,924	0	5,485	..	2,159	6,167	16,724	91,988	71,153
	2017	6,224,915	..	5,632	..	2,187	6,451	16,870	91,669	71,866
	2018	7,206,917	..	5,778	..	2,172	6,454	18,613	96,641	73,174
Armenia	2015	28	..	..	..	..	..	..	..	102
	2016	34	..	..	..	..	..	..	..	186
	2017	31	..	..	..	..	..	..	..	223
	2018	24	..	..	..	..	..	..	..	432
Azerbaijan	2015	6,501	..	..	..	..	..	..	..	..
	2016	7,282	..	..	..	..	..	..	..	..
	2017	6,580	..	..	..	..	..	..	..	..
	2018	12,236	..	..	..	..	3	..	..	..
China	2015	4,610,572	..	..	..	..	..	..	..	..
	2016	4,967,022	..	..	..	..	..	..	..	..
	2017	5,300,081	..	..	..	..	..	..	..	..
	2018	6,205,618	..	..	..	..	..	..	..	..
Cyprus	2015	51	..	..	..	..	..	..	65	2,841
	2016	50	..	..	..	..	..	..	65	2,887
	2017	54	..	..	..	..	..	..	65	2,940
	2018	54	..	..	..	..	..	..	65	3,016
Georgia	2015	0	0	..	..	..	..	..	592	99
	2016	0	0	..	..	..	..	..	642	127
	2017	..	..	..	..	..	..	..	658	128
	2018	..	..	..	..	..	..	..	670	129
Israel	2015	..	..	..	..	..	..	..	..	15,887
	2016	..	..	..	..	..	..	..	..	16,135
	2017	..	..	..	..	..	..	..	..	16,135
	2018	..	..	..	..	..	..	..	..	15,100
Japan	2015	13,075	..	..	..	..	5,867	2,808	5,366	11,175
	2016	13,864	..	..	..	..	6,167	2,664	5,366	10,387
	2017	13,901	..	..	..	..	6,451	2,713	5,366	9,677
	2018	13,901	..	..	..	..	6,451	2,713	5,366	10,387
Kazakhstan	2015	408,147	..	..	..	..	..	..	..	..
	2016	361,022	..	..	..	..	..	..	..	..
	2017	371,187	..	..	..	..	..	..	..	..
	2018	383,651	..	..	..	..	..	..	..	..
Korea, Republic of	2015	202,291	..	..	..	2,667	..	..	5,655	1,192
	2016	219,624	..	..	..	2,159	..	..	6,785	1,193
	2017	237,715	..	..	..	2,187	..	..	7,705	1,665
	2018	250,495	..	..	..	2,172	..	..	8,730	1,880

Table 34

Production of heat - by type

Terajoules

Country or area	Year	Combustible fuels	Geo-thermal	Solar thermal	Nuclear	Chemical sources	Heat pumps and electric boilers	Other sources	Direct use geothermal	Direct use solar thermal
Kyrgyzstan	2015	16,745	..	..	..	..	..	..	..	..
	2016	9,904	..	..	..	..	..	..	..	..
	2017	7,966	..	..	..	..	..	..	..	..
	2018	13,798	..	..	..	..	..	..	..	..
Lebanon	2015	..	..	..	..	..	..	..	..	994
	2016	..	..	..	..	..	..	..	..	1,017
	2017	..	..	..	..	..	..	..	..	*1,060
	2018	..	..	..	..	..	..	..	..	*1,060
Mongolia	2015	44,713	..	..	..	..	..	..	..	..
	2016	45,213	..	..	..	..	..	..	..	..
	2017	47,296	..	..	..	..	..	..	..	..
	2018	52,355	..	..	..	..	..	..	..	..
Other Asia	2015	69,185	..	..	..	..	..	..	..	4,369
	2016	66,800	..	..	..	..	..	..	..	4,315
	2017	64,131	..	..	..	..	..	..	..	4,355
	2018	97,291	..	..	..	..	..	..	..	4,030
State of Palestine	2015	..	..	5,393	..	..	..	..	..	..
	2016	..	..	5,485	..	..	..	..	..	..
	2017	..	..	5,632	..	..	..	..	..	..
	2018	..	..	5,778	..	..	..	..	..	..
Tajikistan	2015	1,499	..	..	..	..	..	..	..	..
	2016	1,648	..	..	..	..	..	..	..	..
	2017	1,793	..	..	..	..	..	..	..	..
	2018	*3,499	..	..	..	..	..	..	..	..
Thailand	2015	..	..	..	..	..	..	..	..	239
	2016	..	..	..	..	..	..	..	..	281
	2017	..	..	..	..	..	..	..	..	388
	2018	..	..	..	..	..	..	..	..	423
Turkey	2015	41,496	..	..	..	..	..	6,598	79,632	34,647
	2016	38,839	..	..	..	..	..	14,060	79,130	34,625
	2017	43,302	..	..	..	..	..	14,157	77,875	35,295
	2018	41,613	..	..	..	..	..	15,900	81,810	36,718
Turkmenistan	2015	9,846	..	..	..	..	..	..	..	..
	2016	9,846	..	..	..	..	..	..	..	..
	2017	9,846	..	..	..	..	..	..	..	..
	2018	10,876	..	..	..	..	..	..	..	..
Uzbekistan	2015	136,022	..	..	..	..	..	..	..	..
	2016	125,776	..	..	..	..	..	..	..	..
	2017	121,032	..	..	..	..	..	..	..	..
	2018	121,507	..	..	..	..	..	..	..	..
Europe	2015	7,826,680	34,251	1,099	25,818	53,409	30,364	359,774	24,682	87,624
	2016	8,128,234	37,293	1,530	26,625	57,145	42,494	385,944	26,470	92,631
	2017	8,022,959	39,898	1,909	26,579	62,834	43,278	403,959	27,864	95,012
	2018	8,122,541	44,411	2,307	25,956	60,648	44,639	418,312	28,494	101,157
Albania	2015	*225	..	..	..	..	..	..	..	493
	2016	*113	..	..	..	..	..	..	..	504
	2017	113	..	..	..	..	..	..	..	553
	2018	122	..	..	..	..	..	..	..	564
Austria	2015	81,996	578	94	..	106	..	..	301	7,567
	2016	84,528	587	90	..	110	..	..	300	7,573
	2017	87,885	591	93	..	89	..	..	527	7,537
	2018	82,344	573	93	..	93	..	..	497	7,474

Table 34

Production of heat - by type

Terajoules

Country or area	Year	Combustible fuels	Geo-thermal	Solar thermal	Nuclear	Chemical sources	Heat pumps and electric boilers	Other sources	Direct use geothermal	Direct use solar thermal
Belarus	2015	241,857	..	..	..	..	..	..	..	..
	2016	249,665	..	..	..	..	..	..	..	..
	2017	253,365	..	..	..	..	..	..	..	..
	2018	261,356	..	..	..	..	..	..	..	..
Belgium	2015	26,541	50	..	..	9,099	..	..	..	1,002
	2016	25,336	52	..	..	11,320	..	..	..	1,027
	2017	22,110	51	..	..	11,272	..	..	..	1,062
	2018	22,229	53	..	..	10,288	..	..	..	1,154
Bosnia and Herzegovina	2015	5,621	..	..	..	..	..	..	..	..
	2016	5,657	..	..	..	..	..	..	..	..
	2017	5,793	..	..	..	..	..	..	..	..
	2018	5,759	..	..	..	..	..	..	..	..
Bulgaria	2015	48,062	..	..	635	1,648	..	..	1,400	912
	2016	45,663	..	..	612	1,927	..	..	1,450	937
	2017	41,624	..	..	696	1,844	..	..	1,450	982
	2018	35,433	..	..	718	1,818	..	..	1,450	1,043
Croatia	2015	11,106	..	..	..	..	..	..	373	435
	2016	11,411	..	..	..	..	..	..	379	484
	2017	12,431	..	..	..	..	..	..	345	539
	2018	12,699	..	..	..	..	..	..	320	584
Czechia	2015	118,467	..	..	899	163	74	1,704	..	742
	2016	124,778	..	..	883	325	67	1,533	..	787
	2017	120,551	..	..	908	322	101	1,070	..	827
	2018	115,419	..	..	864	706	109	1,134	..	870
Denmark	2015	124,732	70	956	..	..	1,141	3,128	..	581
	2016	129,150	112	1,392	..	..	822	3,457	..	589
	2017	128,936	76	1,766	..	..	1,132	3,762	..	597
	2018	127,331	55	2,161	..	..	1,356	4,058	..	604
Estonia	2015	21,204	..	..	..	..	..	..	..	..
	2016	23,940	..	..	..	..	..	..	..	..
	2017	24,261	..	..	..	..	..	..	..	..
	2018	24,260	..	..	..	..	..	..	..	..
Finland	2015	168,501	..	..	..	3,977	3,988	996	..	62
	2016	185,583	..	..	..	5,080	4,106	1,019	..	69
	2017	173,685	..	..	..	4,731	4,429	10,080	..	75
	2018	170,696	..	..	..	4,446	4,344	10,077	..	83
France	2015	147,110	3,857	..	..	..	507	3,452	1,681	6,715
	2016	164,442	4,397	..	..	..	520	4,502	1,681	6,948
	2017	164,966	5,441	..	..	..	527	3,748	1,681	7,207
	2018	164,283	6,162	..	..	..	981	3,506	1,681	7,583
Germany	2015	448,187	626	9	..	..	..	8,739	2,863	28,091
	2016	461,067	797	6	..	..	..	7,389	3,394	28,079
	2017	461,662	641	7	..	..	..	7,492	3,563	28,265
	2018	460,229	905	8	..	..	..	6,133	3,558	31,948
Greece	2015	2,093	..	..	..	..	..	..	415	8,221
	2016	2,134	..	..	..	..	..	..	423	11,071
	2017	2,137	..	..	..	..	..	..	370	11,365
	2018	2,167	..	..	..	..	..	..	371	11,607
Hungary	2015	47,835	1,769	..	802	..	..	1,678	2,246	448
	2016	48,096	2,700	..	848	..	..	2,321	2,120	468
	2017	46,514	2,749	..	637	..	..	2,588	2,588	493
	2018	44,144	2,540	..	620	..	..	2,641	2,658	527

Table 34

Production of heat - by type

Terajoules

Country or area	Year	Combustible fuels	Geo-thermal	Solar thermal	Nuclear	Chemical sources	Heat pumps and electric boilers	Other sources	Direct use geothermal	Direct use solar thermal
Iceland	2015	33	25,873	..	..	..	700	..	3,415	..
	2016	13	27,176	..	..	..	711	..	3,435	..
	2017	61	29,113	..	..	..	822	..	3,389	..
	2018	19	32,821	..	..	..	887	..	3,401	..
Ireland	2015	..	..	..	..	..	..	..	..	479
	2016	..	..	..	..	..	..	..	..	506
	2017	..	..	..	..	..	..	..	..	529
	2018	..	..	..	..	..	..	..	..	567
Italy	2015	216,164	780	2	..	..	..	..	4,778	7,953
	2016	223,037	810	3	..	..	..	..	5,222	8,378
	2017	232,622	793	4	..	..	..	..	5,478	8,740
	2018	228,672	878	6	..	..	..	..	5,364	9,144
Kosovo	2015	44	..	..	..	..	535	..	..	14
	2016	46	..	..	..	..	749	..	..	14
	2017	45	..	..	..	..	772	..	..	14
	2018	45	..	..	..	..	787	..	..	15
Latvia	2015	25,452	..	..	..	..	7	0	..	..
	2016	28,959	..	..	..	..	8	0	..	..
	2017	29,972	..	..	..	..	6	12	..	..
	2018	29,680	..	..	..	..	6	..	..	..
Liechtenstein	2015	380	..	37	..	..	..	..	..	..
	2016	388	..	37	..	..	..	..	..	..
	2017	387	..	38	..	..	..	..	..	..
	2018	417	..	37	..	..	..	..	..	..
Lithuania	2015	31,820	32	..	..	9,600	8	..	..	..
	2016	33,652	41	..	..	9,446	9	..	..	..
	2017	34,957	15	..	..	11,765	9	..	..	..
	2018	34,623	..	..	..	11,272	9	..	..	..
Luxembourg	2015	2,363	..	..	..	..	..	..	..	80
	2016	2,432	..	..	..	..	..	..	..	86
	2017	2,760	..	..	..	..	..	..	..	91
	2018	3,127	..	..	..	..	..	..	..	99
Malta	2015	6	..	..	..	..	..	..	..	201
	2016	8	..	..	..	..	..	..	..	207
	2017	3	..	..	..	..	..	..	..	209
	2018	0	..	..	..	..	..	..	..	211
Netherlands	2015	123,167	..	..	..	..	..	..	2,448	1,137
	2016	116,010	..	..	..	..	..	..	2,844	1,147
	2017	112,736	..	..	..	5,784	..	..	3,047	1,139
	2018	100,517	..	..	..	5,578	..	..	3,731	1,156
North Macedonia	2015	2,193	..	..	..	..	..	..	228	..
	2016	2,239	..	..	..	..	..	..	210	..
	2017	2,419	..	..	..	..	..	..	198	..
	2018	2,245	..	..	..	..	..	..	190	..
Norway	2015	14,828	..	..	..	3,644	4,858	825	..	..
	2016	15,948	..	..	..	3,360	5,458	792	..	..
	2017	16,737	..	..	..	3,535	5,478	829	..	..
	2018	17,827	..	..	..	3,648	5,023	713	..	..
Poland	2015	280,106	..	..	..	1,191	3	96	909	1,885
	2016	292,247	..	..	..	495	4	54	930	2,189
	2017	299,019	..	..	..	659	5	78	946	2,280
	2018	294,096	..	..	..	457	5	115	991	2,383

Table 34

Production of heat - by type

Terajoules

Country or area	Year	Combustible fuels	Geo-thermal	Solar thermal	Nuclear	Chemical sources	Heat pumps and electric boilers	Other sources	Direct use geothermal	Direct use solar thermal
Portugal	2015	19,527	..	..	..	87	..	..	64	3,360
	2016	18,846	..	..	..	..	..	..	57	3,515
	2017	19,101	..	..	..	..	..	..	65	3,683
	2018	20,180	..	..	..	..	..	..	73	3,952
Republic of Moldova	2015	10,042	..	..	..	..	..	..	..	..
	2016	10,606	..	..	..	..	..	..	..	..
	2017	10,251	..	..	..	..	..	..	..	..
	2018	10,658	..	..	..	..	..	..	..	..
Romania	2015	76,366	251	..	..	..	..	..	824	21
	2016	76,505	256	..	..	..	..	..	1,071	22
	2017	74,327	262	..	..	..	..	..	1,098	32
	2018	71,224	246	..	..	..	..	..	1,066	30
Russian Federation	2015	4,853,378	223	..	14,180	..	..	339,148	..	..
	2016	4,988,962	207	..	14,637	..	12,852	363,085	..	..
	2017	4,924,203	0	..	14,593	..	13,366	373,030	..	..
	2018	5,064,879	0	..	14,011	..	14,646	388,539	..	..
Serbia	2015	35,256	..	..	..	..	..	..	256	..
	2016	36,097	..	..	..	..	..	..	214	..
	2017	37,089	..	..	..	..	..	..	213	..
	2018	36,178	..	..	..	..	..	..	215	..
Slovakia	2015	34,510	121	1	1,968	..	53	8	55	229
	2016	35,325	140	2	1,976	..	63	10	66	232
	2017	35,434	148	1	2,096	..	95	7	63	272
	2018	29,113	159	2	1,917	..	107	17	58	297
Slovenia	2015	8,664	21	..	..	..	..	..	1,589	456
	2016	8,982	18	..	..	..	..	..	1,832	458
	2017	9,435	18	..	..	..	..	..	2,003	458
	2018	9,284	19	..	..	..	..	..	2,029	457
Spain	2015	..	..	..	..	..	..	..	789	11,587
	2016	..	..	..	..	..	..	..	789	12,278
	2017	..	..	..	..	..	..	..	789	12,911
	2018	..	..	..	..	..	..	..	789	13,576
Sweden	2015	165,056	..	..	..	..	18,399	..	..	472
	2016	176,404	..	..	..	..	17,025	..	..	468
	2017	173,473	..	..	..	..	16,434	..	..	464
	2018	173,343	..	..	..	..	16,366	..	..	457
Switzerland	2015	19,194	..	..	1,100	..	91	..	15	2,359
	2016	20,515	..	..	1,330	..	100	..	19	2,450
	2017	20,969	..	..	1,320	..	102	..	17	2,509
	2018	20,431	..	..	1,350	..	13	..	18	2,564
Ukraine	2015	348,082	..	..	6,234	23,894	..	..	..	..
	2016	414,323	..	..	6,339	25,082	..	1,782	..	..
	2017	374,362	..	..	6,329	22,833	..	1,263	..	..
	2018	381,170	..	..	6,476	22,342	..	1,379	..	..
United Kingdom	2015	66,512	..	..	..	..	..	..	33	2,122
	2016	65,127	..	..	..	..	..	..	34	2,145
	2017	66,565	..	..	..	..	..	..	34	2,179
	2018	66,342	..	..	..	..	..	..	34	2,208
Oceania	2015	..	..	..	..	..	..	1,259	8,367	15,365
	2016	..	..	..	..	..	..	1,309	8,288	15,395
	2017	..	..	..	..	..	..	1,193	8,184	16,222
	2018	..	..	..	..	..	..	1,267	8,031	17,084

Table 34

Production of heat - by type

Terajoules

Country or area	Year	Combustible fuels	Geothermal	Solar thermal	Nuclear	Chemical sources	Heat pumps and electric boilers	Other sources	Direct use geothermal	Direct use solar thermal
Australia	2015	..	..	..	..	..	..	..	..	14,842
	2016	..	..	..	..	..	..	..	..	14,872
	2017	..	..	..	..	..	..	..	..	15,698
	2018	..	..	..	..	..	..	..	..	16,560
New Caledonia	2015	..	..	..	..	..	..	..	..	140
	2016	..	..	..	..	..	..	..	..	140
	2017	..	..	..	..	..	..	..	..	141
	2018	..	..	..	..	..	..	..	..	141
New Zealand	2015	..	..	..	..	..	..	1,259	8,367	364
	2016	..	..	..	..	..	..	1,309	8,288	364
	2017	..	..	..	..	..	..	1,193	8,184	364
	2018	..	..	..	..	..	..	1,267	8,031	364
Niue	2015	..	..	..	..	..	..	..	..	16
	2016	..	..	..	..	..	..	..	..	*16
	2017	..	..	..	..	..	..	..	..	*16
	2018	..	..	..	..	..	..	..	..	*16
Samoa	2015	..	..	..	..	..	..	..	..	3
	2016	..	..	..	..	..	..	..	..	3
	2017	..	..	..	..	..	..	..	..	*3
	2018	..	..	..	..	..	..	..	..	*3

Production of uranium (uranium content)

Metric tons

Table Notes

Data are primarily based on country submissions and Table 1.19 of the OECD and IAEA publication *Uranium 2018: Resources, Production and Demand*, OECD Publishing, available at <https://www.oecd-neo.org/ndd/pubs/2018/7413-uranium-2018.pdf>.

These sources are complemented with data from the World Nuclear Association, available at <http://www.world-nuclear.org/information-library/nuclear-fuel-cycle/mining-of-uranium/world-uranium-mining-production.aspx>.

Production for Bulgaria, France, Germany and Hungary comes from mine rehabilitation efforts only.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description /classification, and xvi to xvii for the descriptions of relevant flows.

Table 35

Production of uranium (uranium content)

Metric tons

Country or area	2015	2016	2017	2018
World	58,862	62,327	59,683	53,503
Africa	7,430	7,622	8,017	8,781
Malawi	0	0	0	..
Namibia	2,993	3,654	4,224	5,525
Niger	4,115	3,478	3,485	2,910
South Africa	322	490	308	346
America, North	12,965	15,164	14,056	7,583
Canada	11,709	14,039	13,116	7,001
United States	1,256	1,125	940	582
America, South	51	0	0	0
Brazil	51	0	0	0
Asia	28,269	29,025	28,186	26,533
China	1,616	1,616	1,885	1,885
India	385	385	421	423
Iran (Islamic Rep. of)	38	..	40	71
Kazakhstan	23,800	24,575	23,391	21,705
Pakistan	45	45	45	45
Uzbekistan	2,385	2,404	2,404	2,404
Europe	4,493	4,201	3,542	4,089
Czechia	155	138	70	0
France	2	0	0	0
Germany	0	0	0	0
Hungary	4	4	5	*5
Romania	77	50	0	0
Russian Federation	3,055	3,004	2,917	2,904
Ukraine	1,200	1,005	550	1,180
Oceania	5,654	6,315	5,882	6,517
Australia	5,654	6,315	5,882	6,517

Selected energy resources and reserves

Million metric tons unless otherwise indicated

Table Notes

Based on country submissions and the publication *World Energy Resources - 2016*, World Energy Council (WEC), available at <https://www.worldenergy.org/publications/2016/world-energy-resources-2016/>.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description /classification, and xvi to xvii for the descriptions of relevant flows.

Table 36

Selected energy resources and reserves

Million metric tons unless otherwise indicated

Country or area	Bituminous coal / Anthracite			Sub-bituminous coal / Lignite			Peat	
	Proved amount in place	Proved recoverable reserves	Estimated additional amount in place	Proved amount in place	Proved recoverable reserves	Estimated additional amount in place	Proved amount in place	Proved recoverable reserves
Afghanistan	66	66	400	..	..	..	..	..
Albania	..	..	..	727	522	..	..	155
Algeria	223	59	164	..	..	..	..	..
Angola	..	..	..	..	..	..	..	..
Argentina	800	500	..	7,300	500	273	90	*80
Armenia	317	163	..	..	..	..	..	..
Australia	1,598,761	62,095	125,000	443,431	44,164	215,000	..	..
Austria	1	..	3	333	25	61	..	..
Azerbaijan	..	..	..	..	..	..	..	..
Bahrain	..	..	..	..	..	..	..	..
Bangladesh	3,260	293	..	3	..	..	*138	..
Barbados	..	..	..	..	..	..	..	..
Belarus	..	..	..	1,500	100	..	323	323
Belgium	4,100	410	1,400	..	..	..	..	..
Belize	..	..	..	..	..	..	..	..
Benin	..	..	..	..	..	..	..	..
Bhutan	..	..	..	..	..	..	..	..
Bolivia (Plur. State of)	1	1	..	..	..	..	..	..
Bosnia and Herzegovina	..	484	..	5,274	2,264	..	..	..
Botswana	21,240	40	205,253	..	..	..	..	..
Brazil	6,212	1,547	..	17,636	5,049	15,319	..	..
Brunei Darussalam	..	..	..	..	..	..	..	..
Bulgaria	4,112	192	1,200	4,574	2,174	2,618	5	5
Burkina Faso	..	..	..	..	..	..	..	..
Burundi	..	..	..	..	..	..	56	56
Cambodia	..	..	..	..	..	..	..	..
Cameroon	..	..	..	..	..	..	..	..
Canada	187,606	4,346	26,045	120,506	2,236	31,990	1,092	..
Central African Rep.	..	..	..	3	3	..	..	..
Chad	..	..	..	..	..	..	..	..
Chile	5,316	1,181	125	7	155	5,000	..	..
China	5,462,672	124,059	363,200	332,652	7,555	304,700	4,687	328
Colombia	14,809	4,881	13,173	411	380	3,176	..	..
Congo	..	..	..	..	..	..	..	..
Costa Rica	17	..	..	27	..	22	48	..
Côte d'Ivoire	..	..	..	..	..	..	..	..
Croatia	4	4	..	300	33	..	..	..
Cuba	..	..	..	..	..	..	..	..
Cyprus	..	..	..	..	..	..	..	..
Czechia	16,526	1,107	..	9,767	2,604	..	..	..
Dem. Rep. of the Congo	988	88	..	..	..	..	..	..
Denmark	..	..	..	63	..	..	..	..
Dominica	..	..	..	..	..	..	..	..
Dominican Republic	..	..	..	84	..	..	..	..
Ecuador	..	..	..	24	24	6	..	..
Egypt	182	16	..	27	22	52	..	..
El Salvador	..	..	..	..	..	..	..	..
Equatorial Guinea	..	..	..	..	..	..	..	..
Estonia	..	..	..	..	..	..	2,000	2,000
Eswatini	4,644	144	793	..	..	..	..	..
Ethiopia	..	..	..	23	11	..	..	..
Faeroe Islands	..	..	..	..	..	..	..	..
Falkland Is. (Malvinas)	..	..	..	..	..	..	..	..
Fiji	..	..	..	..	..	..	..	..
Finland	..	..	..	..	..	..	850	420
France	160	95	200	114	21	165	..	..
French Guiana	..	..	..	..	..	..	..	..
French Polynesia	..	..	..	..	..	..	..	..
Gabon	..	..	..	..	..	..	..	..
Georgia	901	201	..	..	..	..	..	..

Peat	Proved recoverable reserves				Uranium (metric tons)		Hydropower (Gross theoretical capability) (GWh/Year)
Estimated additional amount in place	Natural gas (billions cubic metres)	Crude oil and NGL	Oil shale	Bituminous sands	Reasonably assured resources	Inferred Resources	
..	*50	..	..	..	..	..	394,000
..	*1	*26	..	5	..	..	40,000
..	4,504	1,537	..	..	19,500	..	12,000
..	*308	1,709	..	74	..	..	150,000
50	332	328	57	..	8,600	11,000	354,000
..	*18	..	44	..	..	..	22,000
..	3,471	442	4,531	..	1,174,000	558,700	265,000
..	*10	*7	1	..	..	..	150,000
..	1,148	959	..	20	..	..	44,000
..	172	15	..	..	..	..	..
*138	232	*4	..	..	..	..	4,000
..	0	0	..	..	..	..	..
1,479	*3	27	1,000	..	..	..	8,000
..	0	..	..	..	..	..	1,000
..	..	0	..	..	..	..	1,000
..	*1	1	..	..	..	..	2,000
..	..	..	..	..	..	..	263,000
..	281	*22	..	..	..	..	178,000
..	..	..	..	..	..	..	70,000
..	..	..	..	..	23,100	59,100	..
487	424	1,890	11,734	..	155,100	121,000	3,040,000
..	276	*150	..	..	..	..	..
..	*6	*2	18	..	..	..	27,000
..	..	..	..	..	..	..	1,000
..	..	..	..	..	..	..	6,000
..	..	..	..	..	..	..	88,000
..	*150	*18	..	..	..	..	294,000
336,908	1,987	27,755	2,192	27,134	357,500	192,500	2,067,000
..	..	..	..	..	12,000	..	7,000
..	..	216	..	..	..	..	150
..	*40	*20	3	..	700	1,200	227,000
952	3,841	2,521	47,600	120	120,000	56,600	6,083,000
..	135	333	..	5	..	..	1,000,000
..	115	*190	..	81	..	..	50,000
22	..	..	..	..	..	..	224,000
..	28	*14	..	..	..	..	46,000
..	*25	*7	..	..	..	..	20,000
280	*71	*3	..	8	..	..	3,000
..	*142	..	..	..	..	..	59,000
..	4	*2	..	..	1,300	100	13,000
..	*1	*24	14,310	5	1,400	1,300	1,397,000
..	31	74	..	..	..	..	120
..	..	..	..	..	..	..	200
..	..	..	..	..	..	..	50,000
..	*11	1,175	..	7	..	..	169,000
..	1,846	458	816	8	..	1,900	125,000
..	..	..	..	..	..	..	7,000
..	*37	149	..	..	..	..	..
..	..	..	2,494	..	..	..	2,000
..	..	..	..	..	..	..	4,000
..	*25	0	..	..	..	..	650,000
..	..	..	..	..	..	..	1,000
28	..	..	..	..	..	..	..
..	..	..	..	..	..	..	3,000
2,200	..	..	..	..	1,100	..	31,000
..	*10	*11	1,002	..	11,500	100	270,000
..	..	..	..	..	..	..	2,000
..	..	..	..	..	..	..	1,000
..	*28	274	..	..	4,800	1,000	200,000
..	*9	*5	..	0	..	..	136,000

Table 36

Selected energy resources and reserves

Million metric tons unless otherwise indicated

Country or area	Bituminous coal / Anthracite			Sub-bituminous coal / Lignite			Peat	
	Proved amount in place	Proved recoverable reserves	Estimated additional amount in place	Proved amount in place	Proved recoverable reserves	Estimated additional amount in place	Proved amount in place	Proved recoverable reserves
Germany	82,982	21	8,065	76,800	36,300	34,100	157	96
Ghana	..	..	..	..	..	..	..	..
Greece	..	..	..	6,430	2,876	..	4,000	..
Greenland	383	183	..	183	183	200	..	..
Grenada	..	..	..	..	..	..	..	..
Guatemala	..	..	..	..	..	..	..	..
Guinea	..	..	..	..	..	..	..	..
Guinea-Bissau	..	..	..	..	..	..	..	..
Guyana	..	..	..	..	..	..	..	..
Haiti	..	..	..	40	..	27	..	..
Honduras	..	..	..	21	..	..	..	..
Hungary	5,351	276	298	5,337	2,633	2,630	..	..
Iceland	..	..	..	..	..	..	..	..
India	260,544	85,562	157,435	42,645	4,714	32,893	..	..
Indonesia	109,825	17,394	6,035	40,639	8,274	38,704	49,000	..
Iran (Islamic Rep. of)	41,203	1,203	..	2,295	..	..	..	..
Iraq	..	..	..	..	..	..	..	..
Ireland	40	14	26	..	9	..	154	106
Israel	..	..	..	..	..	..	500	386
Italy	610	10	..	29	7	600	..	..
Jamaica	..	..	..	..	..	..	200	32
Japan	13,883	340	6,298	1,036	10	7,122	..	..
Jordan	..	..	..	..	..	..	..	..
Kazakhstan	148,695	25,605	..	..	12,100	..	..	..
Kenya	..	..	..	..	..	..	..	..
Korea, Dem.Ppl's.Rep.	10,600	600	2,700	300	300	2,200	..	..
Korea, Republic of	1,686	326	272	209	126	812	..	..
Kuwait	..	..	..	..	..	..	..	..
Kyrgyzstan	28,499	971	..	..	812	..	..	..
Lao People's Dem. Rep.	62	4	..	521	499	..	..	..
Latvia	..	..	..	..	..	..	190	94
Lebanon	..	..	..	..	..	..	..	..
Lesotho	..	..	..	..	..	..	..	..
Liberia	..	..	..	..	..	..	..	..
Libya	..	..	..	..	..	..	..	..
Lithuania	..	..	..	..	..	..	937	269
Madagascar	150	..	..	37	..	..	..	..
Malawi	802	2	..	..	2	..	..	..
Malaysia	1,209	141	78	451	39	575	..	..
Mali	..	..	..	3	..	3	..	..
Mauritania	..	..	..	..	..	..	..	..
Mauritius	..	..	..	..	..	..	..	..
Mexico	4,160	1,160	1,960	51	51	213	..	..
Mongolia	41,024	1,170	..	120,776	1,350	..	..	..
Montenegro	337	142	..	..	..	..	..	..
Morocco	96	14	..	40	..	2	..	..
Mozambique	23,636	1,792	155	..	..	..	..	..
Myanmar	252	3	120	5	3	80	..	..
Namibia	350	..	..	..	..	..	..	..
Nepal	8	1	..	1	1	7	..	..
Netherlands	3,247	497	2,750	..	..	..	120	120
New Caledonia	2	2	8	..	..	..	..	..
New Zealand	3,175	825	942	11,350	6,750	11,902	1,640	..
Nicaragua	..	..	..	..	..	..	..	..
Niger	90	70	..	6	6	..	..	..
Nigeria	2,144	287	21	377	57	1,000	..	..
North Macedonia	..	..	..	632	332	..	..	..
Norway	93	2	..	64	5	100	745	350
Oman	..	..	..	..	..	..	..	..
Pakistan	5,996	207	5	179,596	2,857	68,068	..	..

Peat	Proved recoverable reserves				Uranium (metric tons)		Hydropower (Gross theoretical capability) (GWh/Year)
Estimated additional amount in place	Natural gas (billions cubic metres)	Crude oil and NGL	Oil shale	Bituminous sands	Reasonably assured resources	Inferred Resources	
200	39	*31	286	..	3,000	4,000	120,000
..	*23	*90	..	..	..	..	28,000
..	*1	*1	..	..	1,000	6,000	80,000
..	..	..	..	..	..	134,700	550,000
..	..	..	..	..	..	..	38
..	3	*11	..	..	..	..	59,000
..	..	232	..	..	..	..	26,000
..	..	..	..	..	..	..	1,000
..	..	..	..	..	..	..	81,000
..	..	..	..	..	..	..	4,000
..	..	..	..	..	..	..	16,000
238	*8	*4	8	..	..	8,600	10,000
..	..	..	..	..	..	..	184,000
..	1,489	764	..	..	77,000	27,900	2,638,000
..	2,839	498	..	67	8,400	2,200	2,147,000
..	34,020	*21,433	..	..	700	1,800	448,000
..	3,694	19,308	..	..	..	..	225,000
140	*10	..	..	..	..	..	1,000
1,000	181	*2	550	0	..	..	0
2,500	45	82	10,446	48	4,800	1,300	190,000
..	..	..	..	..	..	..	1,000
..	*21	*4	..	..	6,600	..	718,000
..	*6	0	5,242	5	0	33,800	4,000
..	936	3,932	400	6,689	285,600	417,300	170,000
..	..	..	..	..	..	..	24,000
..	..	..	..	..	..	..	..
..	6	..	..	..	..	..	52,000
..	1,784	13,981	..	..	..	..	..
..	*6	*5	..	..	..	..	163,000
..	..	..	..	..	..	..	233,000
760	..	..	..	..	..	..	7,000
..	..	..	..	..	..	..	2,000
..	..	..	..	..	..	..	5,000
..	..	..	..	..	..	..	28,000
..	1,505	6,297	..	..	..	..	..
..	..	*1	..	..	..	..	6,000
..	2	..	5	35	..	..	321,000
..	..	..	..	..	8,200	5,700	15,000
..	*1,169	471	..	..	..	..	230,000
..	..	..	..	..	..	..	12,000
..	*28	*3	..	..	..	..	..
..	..	..	..	..	..	..	150
..	324	1,496	..	0	2,800	0	430,000
..	..	*35	42	..	30,600	25,100	57,000
..	..	..	..	..	..	..	27,000
..	*1	0	8,167	..	..	..	12,000
..	*2,832	*2	..	..	..	..	103,000
..	528	*3	286	..	..	..	348,000
..	*62	..	..	..	248,200	155,500	23,000
..	0	..	..	..	..	..	733,000
..	675	*30	..	..	..	..	11,000
..	..	..	..	..	..	..	2,000
..	*28	*17	3	..	..	..	205,000
..	..	..	..	..	..	..	33,000
..	..	*20	..	..	325,000	104,900	3,000
..	5,111	5,003	..	91	..	..	43,000
..	..	..	..	..	..	..	9,000
7,015	1,857	994	..	..	..	..	600,000
..	688	720	..	..	..	..	..
..	543	*50	..	..	..	..	475,000

Table 36

Selected energy resources and reserves

Million metric tons unless otherwise indicated

Country or area	Bituminous coal / Anthracite			Sub-bituminous coal / Lignite			Peat	
	Proved amount in place	Proved recoverable reserves	Estimated additional amount in place	Proved amount in place	Proved recoverable reserves	Estimated additional amount in place	Proved amount in place	Proved recoverable reserves
Panama	..	..	..	..	..	..	..	..
Papua New Guinea	..	..	..	..	..	..	..	..
Paraguay	..	..	..	..	..	..	..	..
Peru	1,567	102	..	100	100	..	..	..
Philippines	1,223	211	8	1,017	105	37	..	..
Poland	178,913	16,203	27,405	227,886	5,429	11,837	890	..
Portugal	3	3	..	66	33	..	..	..
Qatar	..	..	..	..	..	..	..	..
Republic of Moldova	..	..	..	..	..	..	..	..
Romania	2,446	11	2,143	9,920	280	8,177	25	13
Russian Federation	2,727,915	69,634	200,000	1,379,623	90,730	200,000	17,680	11,554
Rwanda	..	..	..	..	..	..	..	..
Samoa	..	..	..	..	..	..	..	..
Saudi Arabia	..	..	..	..	..	..	..	..
Senegal	..	..	..	..	..	..	40	24
Serbia	855	402	..	20,186	7,112	..	..	..
Serbia and Montenegro	..	..	..	..	..	..	..	..
Sierra Leone	..	..	..	2	..	..	..	..
Slovakia	19	2	..	1,073	135	..	..	..
Slovenia	95	56	..	656	315	40	..	..
Solomon Islands	..	..	..	..	..	..	..	..
Somalia	..	..	..	..	..	..	..	..
South Africa	213,560	9,893	5,000	30	..	100	47	30
South Sudan	..	..	..	..	..	..	..	..
Spain	4,231	868	3,000	319	319	1,260	94	70
Sri Lanka	..	..	..	..	..	..	5	5
Sudan	..	..	..	..	..	..	..	..
Sudan (former)	..	..	..	..	..	..	..	..
Suriname	..	..	..	..	..	..	..	..
Sweden	5	1	..	4	1	20	700	70
Switzerland	..	..	..	..	..	..	..	..
Syrian Arab Republic	..	..	..	..	..	..	..	..
Tajikistan	4,075	375	..	..	..	..	..	..
Thailand	..	..	..	1,889	1,063	2,857	..	..
Timor-Leste	..	..	..	..	..	..	..	..
Togo	..	..	..	..	..	..	..	..
Trinidad and Tobago	..	..	..	..	..	..	..	..
Tunisia	..	..	..	..	..	..	..	..
Turkey	1,182	380	249	12,828	12,466	296	..	..
Turkmenistan	800	..	..	..	..	..	..	..
Uganda	800	..	..	..	..	..	..	..
Ukraine	81,045	32,039	5,170	7,717	2,336	6,174	2,160	684
United Arab Emirates	..	..	..	..	..	..	..	..
United Kingdom	186,770	70	190	1,000	500	..	..	..
United Rep. of Tanzania	1,410	269	*1,500	..	..	..	..	..
United States	6,680,329	222,641	445,346	1,398,360	30,483	667,415	26,000	13,000
Uruguay	..	..	..	..	..	..	..	..
Uzbekistan	10,852	1,375	..	..	1,853	..	..	..
Venezuela (Bolivar. Rep.)	6,712	731	4,528	..	..	..	..	..
Viet Nam	6,635	3,116	..	200,120	244	..	..	..
Yemen	..	..	..	..	..	..	..	..
Zambia	945	45	..	69	55	18	..	..
Zimbabwe	25,502	502	5,820	965	..	..	..	..

Peat	Proved recoverable reserves				Uranium (metric tons)		Hydropower (Gross theoretical capability) (GWh/Year)
Estimated additional amount in place	Natural gas (billions cubic metres)	Crude oil and NGL	Oil shale	Bituminous sands	Reasonably assured resources	Inferred Resources	
..	..	..	..	..	..	..	26,000
..	141	*24	..	..	..	..	175,000
200	..	..	..	..	..	..	111,000
..	414	170	..	1	1,300	1,300	1,577,000
..	*99	*15	..	..	..	..	47,000
2,300	95	15	7	..	..	..	25,000
..	..	..	..	..	6,000	1,000	32,000
..	24,528	2,695	..	..	..	..	..
..	..	..	..	..	..	..	2,000
10	110	80	..	1	3,100	3,600	70,000
168,320	32,271	14,024	35,470	4,518	216,500	432,000	2,295,000
2,000	*57	..	..	..	..	..	2,000
..	..	..	..	..	..	..	140
..	8,325	36,618	..	..	..	..	..
52	10	0	..	..	..	..	11,000
..	31	*7	..	..	..	..	27,000
..	45	22	..	..	..	..	118,000
..	..	*60	..	..	..	..	11,000
..	*14	*1	..	..	0	9,000	10,000
..	0	0	..	..	1,700	7,500	19,000
..	..	..	..	..	..	..	3,000
..	*6	..	..	..	5,000	2,600	2,000
..	10	*2	19	..	175,300	179,200	73,000
..	..	472	..	..	..	..	..
..	*3	*19	40	..	14,000	0	162,000
46	..	..	..	..	..	..	21,000
..	..	202	..	..	..	..	..
..	85	682	..	..	..	..	48,000
..	..	*12	..	..	..	..	39,000
..	..	..	875	..	5,000	8,500	200,000
..	..	..	..	..	..	..	125,000
..	285	*340	..	..	..	..	11,000
..	*6	*2	..	..	..	..	527,000
..	220	49	916	..	..	..	18,000
..	..	*59	..	..	..	..	..
..	..	..	..	..	..	..	4,000
..	326	*113	..	1	..	..	..
..	*65	55	..	..	..	..	1,000
..	*7	*46	284	..	7,300	..	433,000
..	17,479	82	1,100	..	..	..	24,000
..	*14	*136	..	..	..	..	33,000
1,846	604	*54	600	..	84,800	81,300	45,000
..	6,091	12,976	..	..	..	..	..
..	206	374	501	12	..	..	35,000
..	*1,317	..	..	..	30,100	15,600	39,000
..	10,441	*6,857	536,931	3	207,400	..	2,040,000
46	..	..	..	..	..	..	32,000
..	1,086	81	1,200	..	59,400	31,900	88,000
..	5,617	*26,807	..	9,212	..	..	731,000
..	617	*599	..	..	1,000	5,400	300,000
..	266	409	..	..	..	..	..
..	..	..	..	..	9,900	5,700	53,000
..	..	..	..	..	1,400	..	44,000

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