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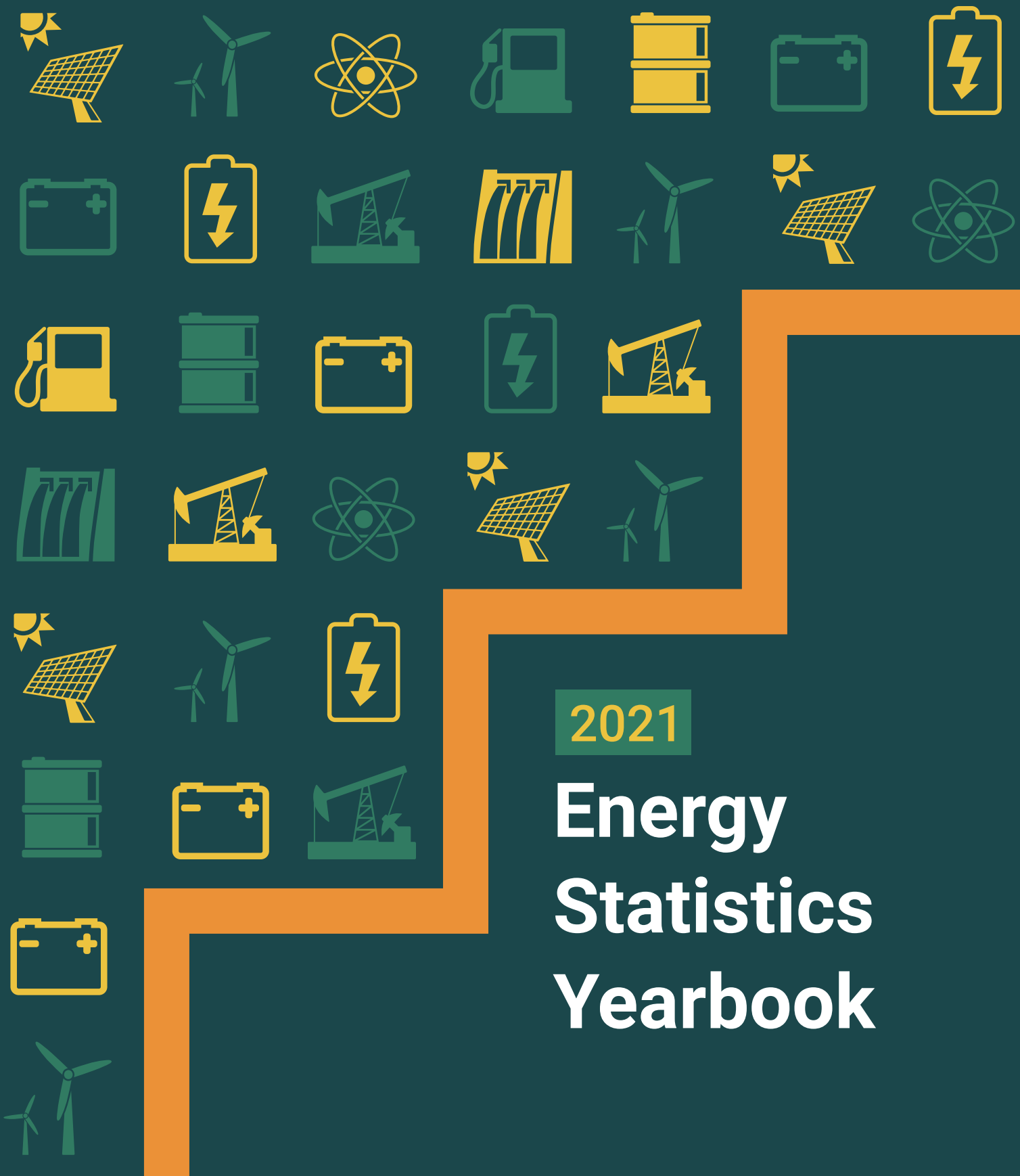

2021

Energy Statistics Yearbook

DEPARTMENT OF ECONOMIC AND SOCIAL AFFAIRS
Statistics Division

ST/ESA/STAT/SER.J/65

2021 Energy Statistics Yearbook

United Nations
New York, 2023

Department of Economic and Social Affairs

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Statistics compiled as of November 2023

INTRODUCTION

The *Energy Statistics Yearbook 2021* is a comprehensive collection of international energy statistics prepared by the United Nations Statistics Division. It is the sixty-fifth 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.

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.[2]

This issue of the *Yearbook* contains data in original and common energy units (tons of coal equivalent and joules) for the years 2018-2021.

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). SIEC is also harmonized with the Intergovernmental Panel on Climate Change (IPCC) methodology to compile inventories of greenhouse gas emissions.

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.
d) Table 4, debuting in the 2021 edition of this Yearbook, displays calculations of CO_2 emissions from fossil fuel combustion according to the 2006 IPCC guidelines[3] (reference approach, plus the category Industrial Processes and Product Use – IPPU).

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 2020 and 2021;

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

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

[2] For details, see unstats.un.org/unsd/energystats/pubs/yearbook/

[3] https://www.ipcc-nggip.iges.or.jp/public/2006gl/

(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 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 format[4]. 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), 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), Union Economique et Monétaire Ouest Africaine (UEMOA), World Bank, and the 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.

[4] 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
^oC	degree Celsius
GJ	gigajoule (10^9 joules)
GWh	gigawatt-hour (10^6 kWh)
IPCC	Intergovernmental Panel on Climate Change
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)
S.I.	International System of Units (Système International d'Unités)
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 20º 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 25ºC to 170ºC.

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 25ºC to 220ºC.

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 100ºC and 250ºC. 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 145ºC to 300°C, but not usually above 250ºC and with a flash point above 38ºC.

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 160ºC 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 380ºC to 540ºC.

Fuel oil – Comprises residual fuel oil and heavy fuel oil. Residual fuel oils have a distillation range of 350ºC to 650ºC and a kinematic viscosity in the range 6 to 55 cSt at 100ºC. Their flash point is always above 60ºC 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 (C_2H_6). 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 30ºC and 210ºC 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 30ºC and a distillation range of 135ºC to 200ºC; and (b) industrial spirit (SBP) - light oils distilling between 30ºC and 200ºC.

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 60ºC). 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 45ºC.

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 630ºC. 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 1330ºC.

Calcined coke is a petroleum coke or coal-derived pitch coke obtained by heat treatment of green coke to about 1330ºC. 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 900ºC. 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*[5] 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.

[5] 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 RESERVES[6]

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 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.

[6] World 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 turbined 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 (and negative emissions)

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. Likewise, carbon dioxide emissions in Table 4, which are calculated based on the supply of fossil fuels, may appear negative for a group of fuels as a result, without meaning that carbon dioxide was absorbed.

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;

Eswatini – ending March 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 and the U.S. Virgin 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 2014 onward. The methodology for collecting animal waste information was improved starting with 2015 data and it might lead to breaks in time series between 2014 and 2015.

Australia – Due to confidentiality issues some data for oil products from 2019 to 2021 have been suppressed or aggregated with other products or flows.

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

Bulgaria – Production of crude oil is confidential from 2019 data onward.

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

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.

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

Germany – Trade data of natural gas up to 2017 include transit volumes.

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

Ireland – Due to confidentiality issues patent fuel quantities are aggregated with anthracite figures.

Israel – For confidentiality reasons, data on electricity generation from hydro, wind and autoproducers biogases are aggregated under autoproducers wind from 2016 onward.

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.*

Natural gas production may include unmarketable gas up to 2017 data, historical revisions are pending.

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.

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, the revised historical time series were estimated by UNSD.

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). Starting with 2018 data motor gasoline and gas oil/diesel oil production are estimated by UNSD.

United Kingdom – Shipments of coal and oil to the Channel Islands 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.

Uzbekistan – In 2019, the State Committee of the Republic of Uzbekistan on Statistics released more granular energy supply information, starting with 2013 data and with 2018 data. As a result, there are breaks in time series for many products and flows between 2012 and 2012, and between 2018 and 2019. For historical data, revisions are pending.

UNITS OF MEASUREMENT AND CONVERSION

Metric units of measurement are used throughout the *Yearbook*. The comparison between different fuels is presented in metric tons of coal equivalent (TCE, Table 5), and terajoules (Tables 1, 2, 3 and 13) on the basis of the heat energy which may be obtained from each of them.

To convert figures from the original unit to terajoules (TJ), country-specific net calorific values (NCVs) are used where applicable and available, and default NCVs are used where applicable but country-specific data are unavailable. Table I provides the default NCVs for converting energy data from mass or volume to terajoules, whereas the country-specific factors are available on the United Nations Statistics Division Website[7]. 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.

One TCE, in turn, is defined as 0.0293076 TJ, or 29307.6 MJ. This is derived from the standard coal equivalency of 7000 calories per gram (which corresponds to a high grade of coal and should not be confused with the average or default coal quality).

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

- Data in original (mass – or volume in the case of fuelwood) units multiplied by the country-specific factors or the default factors from 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.

[7] unstats.un.org/unsd/energystats/pubs/yearbook/

Table I

STANDARD NET CALORIFIC VALUES OF ENERGY PRODUCTS
GJ/ton

Product Name	Factor to TJE	Product Name	Factor to TJE
Hard coal	25.8000	Naphtha	44.5000
Brown coal	14.0000	Bitumen	40.2000
Peat	9.7600	Petroleum coke	32.5000
Oil shale	8.9000	Refinery gas	49.5000
Coke-oven coke	28.2000	Ethane	46.4000
Gas coke	28.2000	Other petroleum products	40.2000
Hard coal briquettes	20.7000	Fuelwood (GJ/m3)	9.1350
Lignite briquettes	20.7000	Charcoal	29.5000
Peat briquettes	9.7600	Bagasse	7.7221
Coal Tar	28.0000	Biogasoline	26.8000
Other coal products	20.0000	Biodiesel	36.8000
Crude petroleum	42.3000	Bio jet-kerosene	40.0000
Natural gas liquids	44.2000	Other liquid biofuels	27.4000
Other hydrocarbons	36.0000	Additives and Oxygenates	30.0000
Motor gasoline	44.3000	Aviation Gasoline	44.3000
Kerosene-type jet-fuel	44.1000	Gasoline-type jet fuel	44.3000
Other kerosene	43.8000	Refinery Feedstocks	43.0000
Gas-diesel oil	43.0000	White spirit and SBP	40.2000
Residual fuel oil	40.4000	Lubricants	40.2000
Liquefied petroleum gas	47.3000	Paraffin waxes	40.2000

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

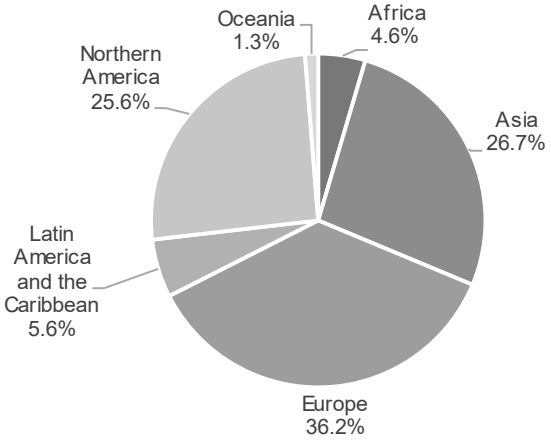


Figure 2: Total energy supply by region, 2021

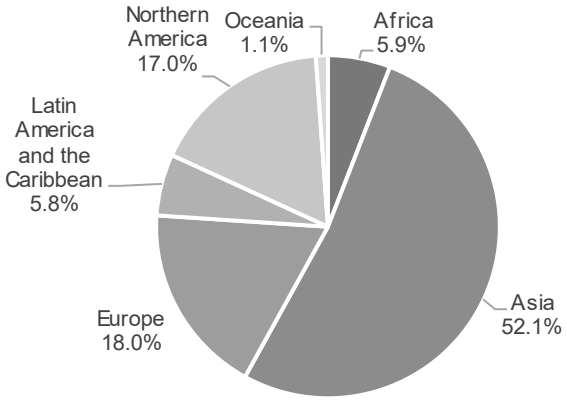


Figure 3: Total energy supply by region, 1990-2021

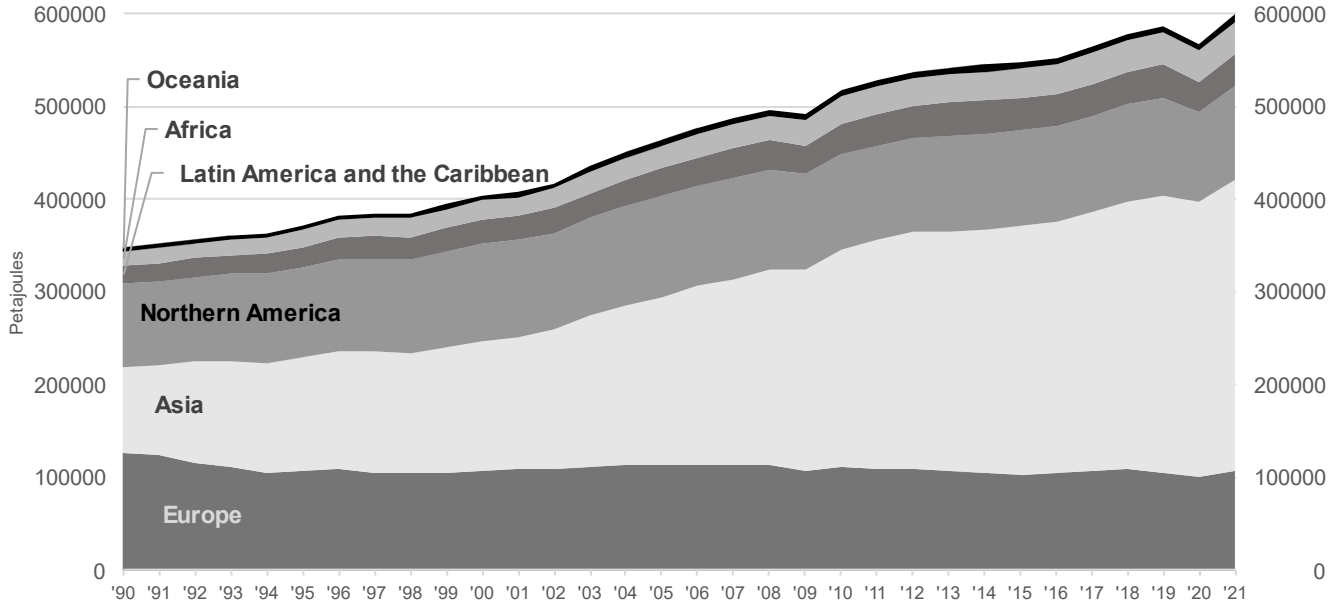


Table 1

Total Energy Supply

Petajoules

Country or area	1990	2000	2005	2010	2015	2020	2021
World	**348,594**	**405,205**	**463,700**	**517,517**	**547,941**	**567,854**	**599,167**
Africa	**15,891**	**20,999**	**24,537**	**28,316**	**31,494**	**33,698**	**35,266**
Algeria	1,075	1,103	1,583	1,641	2,224	2,359	2,553
Angola	238	288	319	469	536	494	535
Benin	73	83	104	149	180	200	207
Botswana	39	57	65	74	80	84	88
Burkina Faso	*63	81	113	143	203	*251	*263
Burundi	*52	55	*56	*59	62	67	67
Cabo Verde	*3	*6	8	9	*9	*9	*9
Cameroon	203	266	306	293	384	424	427
Central African Rep.	31	*29	*32	36	36	*38	*38
Chad	48	62	71	82	96	103	107
Comoros	*3	*4	5	*6	*7	*10	*11
Congo	36	29	45	70	117	141	145
Côte d'Ivoire	204	278	418	347	412	452	549
Dem. Rep. of the Congo	495	584	698	832	1,210	1,371	1,413
Djibouti	*6	8	*9	11	11	11	*11
Egypt	1,222	2,231	2,683	3,182	3,391	3,811	4,179
Equatorial Guinea	5	11	65	77	109	105	124
Eritrea	..	30	29	31	35	39	40
Eswatini	*28	35	36	37	41	44	41
Ethiopia	..	1,031	1,204	1,400	1,655	1,886	1,934
Ethiopia, incl. Eritrea	543	..	..	..	..	..	..
Gabon	49	61	72	93	111	104	105
Gambia	7	9	10	12	15	*17	*17
Ghana	187	265	241	287	387	490	502
Guinea	105	128	135	147	152	185	185
Guinea-Bissau	20	23	25	27	30	32	32
Kenya	439	*627	*686	*793	953	*993	*980
Lesotho	*36	*48	47	52	*47	*44	*56
Liberia	38	49	62	74	85	99	102
Libya	468	695	753	842	911	460	699
Madagascar	122	197	229	279	304	*381	*401
Malawi	64	65	70	76	81	90	92
Mali	*61	*85	119	176	221	292	*299
Mauritania	*23	29	36	46	*61	91	*87
Mauritius	33	49	57	63	67	57	59
Mayotte	*1	*2	*3	4	..	..	..
Morocco	345	478	606	762	799	894	965
Mozambique	249	293	365	309	441	442	470
Namibia	..	42	58	64	79	79	79
Niger	60	81	*77	70	95	*109	*112
Nigeria	2,781	3,657	4,429	5,387	6,125	6,721	6,896
Réunion	24	42	49	58	..	..	..
Rwanda	35	54	71	84	*98	*105	*108
Sao Tome and Principe	*1	*2	*2	3	3	*3	*3
Senegal	*81	97	114	160	178	195	212
Seychelles	2	4	5	6	7	*8	*9
Sierra Leone	50	53	56	60	69	71	75
Somalia	69	90	107	126	138	159	163
South Africa	4,104	4,892	5,169	5,857	5,609	5,494	5,474
South Sudan	..	..	..	..	35	32	33
Sudan	..	..	..	..	409	495	*528
Sudan (former)	451	556	654	711	..	..	..
Togo	55	89	99	130	131	163	158
Tunisia	199	296	342	427	457	450	485
Uganda	*324	403	525	654	815	1,081	1,086
United Rep. of Tanzania	409	564	699	796	919	1,042	1,083

Total Energy Supply

Petajoules

Country or area	1990	2000	2005	2010	2015	2020	2021
Zambia	222	263	301	340	408	468	*481
Zimbabwe	404	438	414	397	459	456	*488
Asia	**93,197**	**140,614**	**182,354**	**233,950**	**267,537**	**296,410**	**312,368**
Afghanistan	*39	31	46	*141	167	195	*179
Armenia	..	85	106	*106	135	156	160
Azerbaijan	..	485	573	486	605	644	679
Bahrain	202	337	436	513	577	667	650
Bangladesh	769	999	1,192	1,484	1,820	2,097	2,260
Bhutan	37	44	50	63	71	71	79
Brunei Darussalam	93	95	93	136	114	164	168
Cambodia	*50	72	82	131	186	276	276
China	30,398	42,516	68,833	101,618	120,324	140,174	148,885
China, Hong Kong SAR	316	570	579	544	576	514	514
China, Macao SAR	13	22	27	32	43	36	38
Cyprus	58	90	94	103	85	89	92
Georgia	..	120	135	140	198	208	221
India	12,063	18,519	21,289	27,410	35,123	37,306	40,057
Indonesia	4,154	5,881	7,037	8,073	8,709	10,182	10,237
Iran (Islamic Rep. of)	2,819	5,386	7,216	8,579	10,024	12,062	12,328
Iraq	586	995	1,485	1,424	1,629	1,989	1,962
Israel	482	767	773	972	915	948	955
Japan	18,355	21,682	21,867	21,015	18,140	16,160	16,765
Jordan	140	207	291	308	369	344	333
Kazakhstan	..	1,554	2,356	3,363	3,180	2,764	2,887
Korea, Dem.Ppl's.Rep.	1,391	826	896	791	405	800	682
Korea, Republic of	3,868	7,912	8,822	10,498	11,426	11,549	12,214
Kuwait	566	824	1,133	1,350	1,424	1,524	1,512
Kyrgyzstan	..	101	114	115	167	150	172
Lao People's Dem. Rep.	60	58	69	100	169	*244	*242
Lebanon	*113	207	206	262	337	*332	*268
Malaysia	757	1,959	2,745	2,965	3,429	3,771	3,984
Maldives	2	6	9	13	18	24	28
Mongolia	114	86	103	164	273	428	483
Myanmar	367	467	535	564	768	877	817
Nepal	239	338	381	433	494	630	645
Oman	153	319	445	825	1,100	1,126	1,244
Other Asia	2,119	3,705	4,476	4,898	4,947	4,744	5,105
Pakistan	1,834	2,437	2,953	3,096	3,104	4,118	4,379
Philippines	1,113	1,598	1,523	1,701	2,136	2,373	2,491
Qatar	194	576	728	1,165	1,546	1,753	1,788
Saudi Arabia	2,694	4,623	6,220	8,277	9,767	9,755	10,956
Singapore	658	761	926	883	1,217	1,475	1,498
Sri Lanka	187	296	324	339	409	411	453
State of Palestine	*20	38	58	54	72	82	87
Syrian Arab Republic	476	729	741	911	424	368	363
Tajikistan	..	141	148	143	167	206	205
Thailand	1,775	3,046	4,035	4,907	5,668	5,586	5,719
Timor-Leste	..	..	4	5	7	9	9
Türkiye	2,211	3,182	3,529	4,442	5,390	6,131	6,653
Turkmenistan	..	625	754	951	988	1,010	1,010
United Arab Emirates	791	1,719	1,842	2,977	3,571	3,637	3,553
Uzbekistan	..	2,124	2,046	1,821	1,735	1,796	1,996
Viet Nam	791	1,262	1,756	2,334	3,207	4,327	3,961
Yemen	..	197	274	326	180	129	127
Yemen Arab Rep. (former)	*47	..	..	..	..	..	..
Yemen, Dem. (former)	*84	..	..	..	..	..	..
Europe	**126,281**	**106,729**	**113,093**	**111,938**	**103,779**	**101,039**	**108,076**
Albania	92	65	91	91	92	86	95

Table 1

Total Energy Supply

Petajoules

Country or area	1990	2000	2005	2010	2015	2020	2021
Andorra	*7	9	10	10	9	7	8
Austria	1,041	1,198	1,413	1,428	1,372	1,326	1,395
Belarus	..	1,029	1,122	1,152	1,067	1,052	1,142
Belgium	1,999	2,418	2,423	2,506	2,186	2,098	2,315
Bosnia and Herzegovina	..	179	206	269	250	298	308
Bulgaria	1,181	773	826	741	775	732	793
Croatia	..	350	407	390	350	346	361
Czechia	..	1,746	1,898	1,892	1,758	1,683	1,785
Czechoslovakia (former)	2,950	..	..	..	..	..	..
Denmark	726	780	791	812	677	642	676
Estonia	..	188	222	247	204	188	192
Faeroe Islands	10	*10	*10	*9	*9	*11	*11
Finland	1,186	1,353	1,440	1,528	1,351	1,322	1,383
France	9,345	10,500	11,374	10,969	10,524	9,094	9,826
German Dem. R. (former)	*3,688	..	..	..	..	..	..
Germany	..	14,081	14,156	13,791	12,932	11,653	12,047
Germany, Fed. R. (former)	11,425	..	..	..	..	..	..
Gibraltar	2	5	6	7	9	10	11
Greece	895	1,134	1,268	1,158	967	816	842
Guernsey	..	0	1	1	1	1	1
Hungary	1,200	1,046	1,174	1,109	1,053	1,098	1,149
Iceland	88	143	163	287	328	363	363
Ireland	417	580	618	608	561	557	579
Isle of Man	..	..	1	4	4	5	4
Italy	6,138	7,183	7,797	7,277	6,374	5,744	6,248
Jersey	*1	1	3	3	3	3	3
Kosovo	..	65	82	105	106	112	122
Latvia	..	161	190	189	179	180	188
Liechtenstein	1	2	3	3	3	3	4
Lithuania	..	295	364	292	292	310	321
Luxembourg	143	142	185	178	158	145	153
Malta	29	29	37	35	27	29	30
Montenegro	..	..	42	48	42	44	46
Netherlands (Kingd. of the)	2,771	3,106	3,316	3,443	3,002	2,886	2,961
North Macedonia	..	113	119	121	116	117	115
Norway	879	1,092	1,215	1,314	1,063	1,148	1,189
Poland	4,393	3,784	3,891	4,256	4,004	4,285	4,550
Portugal	703	1,031	1,109	983	918	848	843
Republic of Moldova	..	66	89	91	108	113	124
Romania	2,621	1,532	1,626	1,474	1,341	1,355	1,440
Russian Federation	..	25,994	27,338	28,932	28,943	31,453	34,759
Serbia	..	..	669	648	612	657	668
Serbia and Montenegro	..	556	..	..	..	..	..
Slovakia	..	740	777	736	675	683	743
Slovenia	..	274	315	307	276	271	277
Spain	3,762	5,073	5,914	5,334	4,909	4,528	4,794
Sweden	1,965	1,968	2,123	2,099	1,834	1,807	1,945
Switzerland	1,018	1,042	1,080	1,086	1,013	971	954
Ukraine	..	5,574	5,872	5,491	3,753	3,547	3,668
United Kingdom	8,612	9,317	9,318	8,485	7,550	6,412	6,646
USSR (former)	55,194	..	..	..	..	..	..
Yugoslavia, SFR (former)	1,797	..	..	..	..	..	..
Latin America & Carib.	**19,659**	**25,527**	**29,376**	**33,123**	**35,484**	**32,505**	**34,798**
Anguilla	*1	*1	*2	*2	2	2	2
Antigua and Barbuda	*4	*5	*7	*8	*8	*9	*9
Argentina	1,929	2,573	2,923	3,296	3,426	3,057	3,402
Aruba	*7	*54	58	*56	*13	*12	*12
Bahamas	*28	*28	*28	*32	32	29	36
Barbados	15	18	19	22	18	17	16

Total Energy Supply

Petajoules

Country or area	1990	2000	2005	2010	2015	2020	2021
Belize	8	11	10	12	16	15	17
Bolivia (Plur. State of)	108	152	220	265	343	324	378
Bonaire, St Eustatius, Saba	..	..	..	..	*1	*2	*2
Brazil	5,972	7,998	9,212	10,946	12,393	11,927	12,877
British Virgin Islands	*1	*2	*2	*3	*3	*3	*3
Cayman Islands	4	*7	7	8	8	9	9
Chile	593	1,082	1,187	1,286	1,511	1,573	1,655
Colombia	983	1,103	1,180	1,402	1,706	1,681	1,778
Costa Rica	68	137	177	203	207	207	217
Cuba	604	452	403	488	454	342	359
Curaçao	..	..	..	..	108	30	33
Dominica	*1	2	2	3	*3	*2	*2
Dominican Republic	140	275	259	308	335	375	433
Ecuador	255	328	470	521	603	528	604
El Salvador	91	146	160	175	172	179	195
Falkland Is. (Malvinas)	1	0	1	1	1	1	1
French Guiana	9	8	10	*12	..	..	..
Grenada	2	3	3	4	4	4	5
Guadeloupe	18	26	33	*32	..	..	..
Guatemala	195	307	385	394	480	650	727
Guyana	32	34	32	35	35	42	49
Haiti	101	128	138	159	176	188	193
Honduras	100	127	164	198	237	224	238
Jamaica	113	148	147	113	117	110	116
Martinique	21	*23	30	29	..	..	..
Mexico	5,179	6,314	7,559	7,557	7,830	7,246	7,520
Montserrat	0	0	1	1	1	0	0
Neth. Antilles (former)	82	83	84	69	..	..	..
Nicaragua	87	106	118	128	161	162	168
Panama	60	105	122	144	171	131	185
Paraguay	*114	188	180	204	258	292	304
Peru	421	514	565	808	904	884	962
Puerto Rico	*1	13	24	27	56	51	72
Sint Maarten (Dutch part)	..	..	..	..	*12	*10	*11
St. Kitts-Nevis	*2	*3	*3	3	*3	*3	*3
St. Lucia	*4	6	7	8	8	*8	*8
St. Vincent-Grenadines	*1	2	*3	3	4	4	*4
Suriname	29	36	26	40	43	45	42
Trinidad and Tobago	251	420	676	833	797	616	643
Turks and Caicos Islands	*1	*2	*3	*4	*5	*5	*5
Uruguay	96	119	126	173	213	219	234
Venezuela (Bolivar. Rep.)	1,928	2,439	2,609	3,105	2,608	1,287	1,269
Northern America	**89,144**	**105,824**	**108,567**	**103,694**	**103,038**	**97,274**	**101,881**
Bermuda	*7	*8	*9	*9	8	7	8
Canada	8,849	10,551	11,277	10,761	11,500	11,874	12,144
Greenland	6	7	9	11	9	9	9
St. Pierre-Miquelon	1	*1	*1	*1	*1	*1	*1
United States	80,280	95,258	97,271	92,913	91,520	85,384	89,719
Oceania	**4,423**	**5,512**	**5,773**	**6,496**	**6,608**	**6,928**	**6,777**
American Samoa	*7	*6	*7	*7	*6	*5	*5
Australia	3,694	4,567	4,790	5,396	5,328	5,652	5,494
Cook Islands	*1	*1	1	*1	*1	*1	*1
Fiji	23	21	24	20	25	*21	*22
French Polynesia	*7	9	12	14	13	13	13
Kiribati	*1	1	1	1	1	*2	*2
Marshall Islands	..	*2	*2	*2	*2	*2	*2
Micronesia (Fed. States of)	..	*3	2	2	2	*2	*2
Nauru	*2	*1	*1	*1	*1	*1	*1

Table 1

Total Energy Supply

Petajoules

Country or area	1990	2000	2005	2010	2015	2020	2021
New Caledonia	21	30	37	46	61	63	57
New Zealand	565	747	744	837	964	936	942
Northern Mariana Islands	..	*7	*7	*7	*8	*5	*6
Pacific Islands (former)	*3	..	..	..	..	..	..
Palau	..	*3	*3	3	*3	*3	*3
Papua New Guinea	88	99	126	141	176	203	*208
Samoa	*3	4	4	4	5	*5	*5
Solomon Islands	*5	*6	*7	*8	8	*8	*8
Tonga	1	1	*2	2	2	3	3
Vanuatu	1	*2	2	3	3	4	4

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

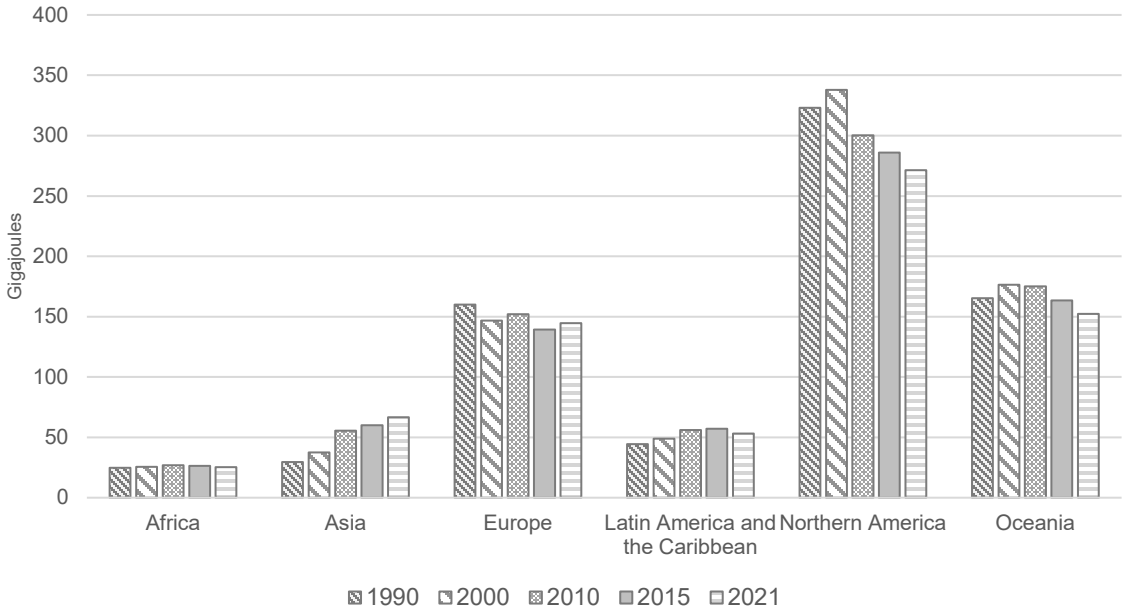


Figure 5: Production of solids by region, 2021

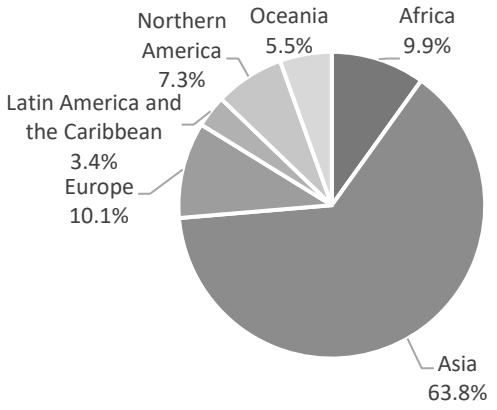


Figure 6: Production of liquids by region, 2021

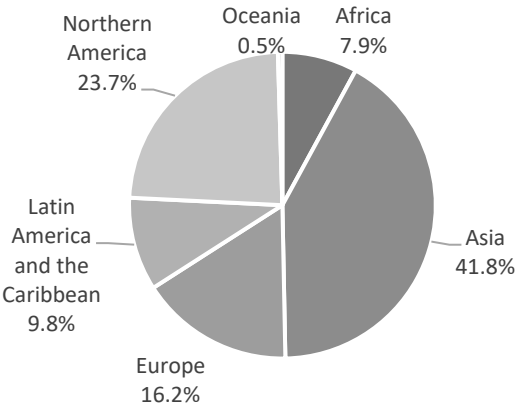


Figure 7: Production of gases by region, 2021

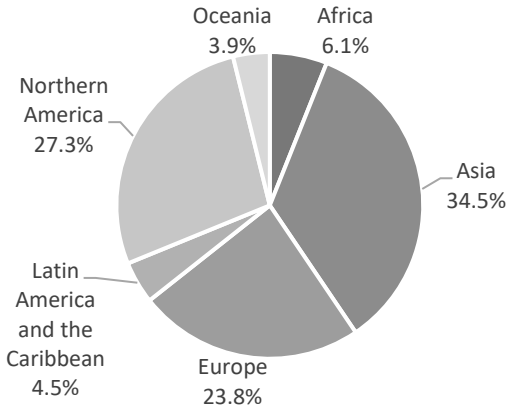


Figure 8: Primary electricity production by region, 2021

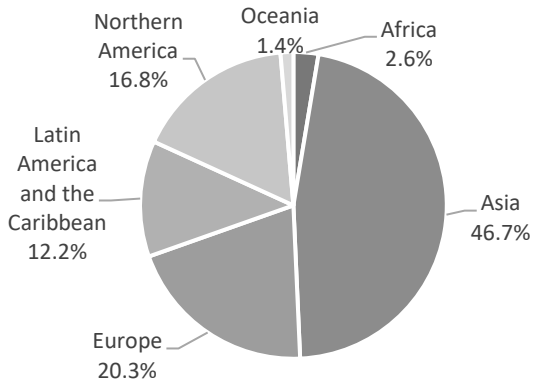


Table 2

Components of Total Energy Supply

Petajoules and gigajoules per capita

Country or area	Year	Primary energy production					
		Total	Solids	Liquids	Gases	Electricity	Heat
World	**2018**	**601,222**	**213,123**	**194,508**	**138,620**	**21,718**	**33,253**
	2019	**613,709**	**215,716**	**194,329**	**146,509**	**22,936**	**34,219**
	2020	**589,086**	**207,534**	**180,951**	**143,132**	**24,389**	**33,080**
	2021	**609,909**	**215,960**	**183,862**	**149,691**	**25,854**	**34,542**
Africa	**2018**	**47,458**	**21,256**	**16,856**	**8,445**	**559**	**342**
	2019	**48,473**	**21,398**	**17,313**	**8,796**	**592**	**374**
	2020	**44,240**	**21,400**	**13,783**	**8,088**	**634**	**335**
	2021	**46,089**	**21,400**	**14,589**	**9,059**	**680**	**361**
Algeria	2018	6,254	1	2,816	3,434	3	..
	2019	5,967	0	2,777	3,187	3	..
	2020	5,458	0	2,483	2,971	*3	..
	2021	6,214	0	2,516	3,695	*2	..
Angola	2018	3,657	268	3,140	212	37	..
	2019	3,501	272	2,958	233	39	..
	2020	3,315	275	2,737	*258	45	..
	2021	2,940	*281	2,410	*208	40	..
Benin	2018	117	117	..	..	0	..
	2019	121	121	..	..	0	..
	2020	124	124	..	..	0	..
	2021	124	124	..	..	0	..
Botswana	2018	65	65	..	..	0	0
	2019	56	56	..	..	0	0
	2020	51	51	..	..	0	0
	2021	57	56	..	..	0	0
Burkina Faso	2018	175	174	..	0	1	..
	2019	180	179	..	0	1	..
	2020	*182	*181	..	0	*1	..
	2021	*186	*185	..	0	*1	..
Burundi	2018	56	55	..	..	1	..
	2019	56	55	..	..	1	..
	2020	56	55	..	..	1	..
	2021	56	55	..	..	0	..
Cabo Verde	2018	*2	*1	..	..	0	..
	2019	*2	*1	..	..	0	..
	2020	*2	*1	..	..	0	..
	2021	*2	*1	..	..	0	..
Cameroon	2018	506	285	148	55	18	..
	2019	546	293	154	81	19	..
	2020	557	301	157	81	18	..
	2021	558	309	152	80	18	..
Central African Rep.	2018	*34	*34	..	..	1	..
	2019	*34	*34	..	..	1	..
	2020	*35	*34	..	..	*1	..
	2021	*35	*34	..	..	*1	..
Chad	2018	347	74	273	..	0	..
	2019	360	75	285	..	0	..
	2020	*369	76	*293	..	0	..
	2021	*359	77	*282	..	0	..
Comoros	2018	*4	*4	..	..	..	..
	2019	*4	*4	..	..	..	..
	2020	*4	*4	..	..	..	..
	2021	*4	*4	..	..	0	..
Congo	2018	814	68	717	25	4	..
	2019	836	69	729	34	3	..
	2020	777	70	667	36	3	..
	2021	705	71	593	37	4	..

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
242,439	**246,861**	**8,642**	**8,568**	**733**	**578,857**	**75**
242,115	**245,944**	**8,860**	**8,342**	**5,604**	**587,074**	**76**
223,697	**229,587**	**4,302**	**8,001**	**3,038**	**567,854**	**72**
231,759	**233,082**	**4,676**	**8,231**	**-3,488**	**599,167**	**76**
7,845	**21,205**	**381**	**221**	**41**	**33,454**	**26**
8,043	**20,816**	**400**	**209**	**148**	**34,943**	**26**
7,298	**17,334**	**212**	**224**	**69**	**33,698**	**25**
7,715	**18,041**	**229**	**219**	**49**	**35,266**	**25**
61	3,846	*19	9	14	2,428	58
105	3,524	*16	1	2	2,530	59
54	3,130	*10	9	4	2,359	54
15	3,662	*10	9	-6	2,553	58
194	3,253	13	10	*24	552	18
170	3,031	13	11	*60	556	17
83	2,881	3	7	12	494	15
126	2,506	3	8	13	535	16
84	..	1	..	3	197	17
73	0	1	0	0	193	16
76	0	1	0	0	200	16
85	0	1	0	2	207	16
49	7	1	..	..	106	43
49	7	1	..	..	97	39
45	12	0	..	..	84	33
46	14	0	..	..	88	34
66	..	1	..	0	240	12
69	..	1	..	0	248	12
*70	..	1	..	0	*251	*12
*80	..	1	..	*2	*263	*12
*10	..	0	..	0	65	6
*10	..	0	..	0	66	6
11	..	0	..	..	67	6
11	..	0	..	..	67	5
*13	..	*2	*3	0	*10	*17
*14	..	*2	*3	..	*11	*18
*11	..	*1	*2	..	*9	*15
*11	..	*1	*2	..	*9	*16
67	165	1	..	..	407	16
71	203	1	..	..	413	16
74	206	0	..	..	424	16
73	204	0	..	..	427	16
*4	..	1	..	..	*37	*7
*4	..	*1	..	..	*38	*7
*4	..	*1	..	..	*38	*7
*4	..	*1	..	..	*38	*7
0	247	1	..	..	100	6
0	258	1	..	..	101	6
0	265	*1	..	..	103	6
0	251	*1	..	..	107	6
*4	..	0	0	0	*8	*11
*5	..	0	0	0	*9	*11
*5	..	0	0	0	*10	*12
*8	..	0	0	0	*11	*14
9	694	1	..	1	126	23
9	699	1	..	8	136	24
7	638	1	..	5	141	25
8	568	1	..	0	145	25

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	2018	390	235	71	73	11	..
	2019	421	254	77	78	13	..
	2020	423	269	62	80	12	..
	2021	474	328	54	83	10	..
Dem. Rep. of the Congo	2018	1,282	1,196	49	..	38	..
	2019	1,312	1,224	47	..	41	..
	2020	1,370	1,274	51	..	45	..
	2021	1,413	1,316	50	..	47	..
Djibouti	2018	4	4	..	..	0	..
	2019	4	4	..	..	0	..
	2020	4	4	..	..	0	..
	2021	4	4	..	..	0	..
Egypt	2018	3,400	166	1,460	1,718	56	..
	2019	4,069	167	1,458	2,379	66	..
	2020	3,794	176	1,396	2,133	84	5
	2021	4,019	171	1,323	2,432	93	..
Equatorial Guinea	2018	649	4	372	272	2	..
	2019	573	4	347	219	*2	..
	2020	559	4	341	212	*2	..
	2021	542	4	288	247	*2	..
Eritrea	2018	30	30	..	..	0	..
	2019	30	30	..	..	0	..
	2020	31	31	..	..	0	..
	2021	31	31	..	..	0	..
Eswatini	2018	29	28	..	..	1	..
	2019	30	29	..	..	1	..
	2020	28	27	..	..	1	..
	2021	27	27	..	..	1	..
Ethiopia	2018	1,647	1,594	0	..	52	..
	2019	1,685	1,631	0	..	54	..
	2020	1,724	1,667	0	..	57	..
	2021	1,767	1,711	0	..	56	..
Gabon	2018	478	*55	401	18	4	..
	2019	535	*55	460	16	4	..
	2020	515	*56	439	17	4	..
	2021	499	*56	424	15	4	..
Gambia	2018	7	7	..	..	0	..
	2019	7	7	..	..	0	..
	2020	7	7	..	..	0	..
	2021	*7	*7	..	..	0	..
Ghana	2018	615	177	379	37	22	..
	2019	686	173	435	53	26	..
	2020	704	179	408	90	26	..
	2021	642	175	337	102	28	..
Guinea	2018	118	113	..	..	4	..
	2019	118	114	..	..	5	..
	2020	119	114	..	..	5	..
	2021	124	115	..	..	9	..
Guinea-Bissau	2018	26	26	..	..	0	..
	2019	26	26	..	..	0	..
	2020	27	27	..	..	0	..
	2021	27	27	..	..	0	..
Kenya	2018	*748	*548	..	0	16	185
	2019	*749	*543	..	0	17	188
	2020	*738	*536	..	0	20	182
	2021	*735	*532	..	0	21	181

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
160	131	7	3	..	409	16
172	152	8	4	..	429	16
162	128	3	4	-1	452	17
204	122	5	4	-1	549	20
50	49	5	..	..	1,278	15
54	48	6	..	..	1,313	15
56	51	4	..	..	1,371	15
55	50	5	..	..	1,413	15
12	0	*4	*1	..	11	11
*13	0	*4	*1	..	*12	*11
11	0	*3	*1	..	11	10
*12	0	*3	*1	..	*11	*10
1,149	653	28	4	-1	3,867	37
805	757	35	3	..	4,079	39
880	827	23	13	..	3,811	35
1,067	872	18	17	..	4,179	38
*12	539	2	..	2	119	79
*13	490	2	..	0	93	60
*11	472	1	..	-9	105	66
*11	432	1	..	*-5	124	76
9	..	1	1	0	38	11
9	..	0	1	..	39	11
9	..	0	1	..	39	11
9	..	0	1	..	40	11
18	3	0	..	..	44	38
*19	3	0	..	..	45	39
*19	*3	0	..	..	44	37
*17	*3	0	..	..	41	35
200	4	32	..	1	1,810	16
222	4	36	..	0	1,867	16
185	6	17	..	1	1,886	16
194	6	22	..	..	1,934	16
16	376	2	6	5	105	48
16	446	2	7	-2	99	44
13	437	1	6	-19	104	45
13	406	1	6	-7	105	45
10	0	*1	..	..	16	7
*11	0	*1	..	..	*17	*7
*10	0	*1	..	..	*17	*7
*11	0	*1	..	..	*17	*7
195	384	8	0	-8	425	14
213	447	9	0	0	444	14
227	422	5	0	13	490	15
205	345	8	0	-10	502	15
55	0	*1	..	7	164	13
66	0	*2	..	7	176	14
65	0	*1	..	-2	185	14
*64	0	*1	..	*2	185	14
*5	0	*1	..	..	31	16
*6	0	*1	..	..	31	16
*5	0	*1	..	..	32	16
*5	0	*1	..	..	32	16
252	1	30	2	..	*967	*19
268	1	31	*1	..	*984	*19
273	1	17	0	..	*993	*19
269	0	21	2	..	*980	*18

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	2018	*19	*17	..	..	2	..
	2019	*18	*16	..	..	1	..
	2020	*18	*16	..	..	2	..
	2021	*18	*16	..	..	2	..
Liberia	2018	84	84	..	..	0	..
	2019	87	86	..	..	0	..
	2020	90	89	..	..	0	..
	2021	93	92	..	..	1	..
Libya	2018	3,090	25	2,383	682	0	..
	2019	3,280	25	2,677	578	0	..
	2020	1,162	25	865	272	0	..
	2021	2,998	26	2,623	349	0	..
Madagascar	2018	306	302	..	..	4	..
	2019	318	315	..	..	3	..
	2020	*331	*328	..	..	3	..
	2021	*343	*341	..	..	3	..
Malawi	2018	68	62	0	..	5	..
	2019	70	63	0	..	7	..
	2020	70	63	0	..	*7	..
	2021	70	63	0	..	*7	..
Mali	2018	197	193	..	..	*5	..
	2019	205	200	..	..	5	..
	2020	212	207	..	..	6	..
	2021	*213	*208	..	..	*6	..
Mauritania	2018	21	20	0	..	1	..
	2019	21	20	..	..	*1	..
	2020	22	21	..	..	1	..
	2021	22	21	..	..	*1	..
Mauritius	2018	10	9	..	0	1	..
	2019	10	9	..	0	1	..
	2020	8	7	..	0	1	..
	2021	8	7	..	0	1	..
Morocco	2018	98	66	0	3	21	9
	2019	105	65	0	3	23	13
	2020	102	65	0	3	21	12
	2021	108	64	0	3	23	17
Mozambique	2018	955	732	0	173	50	..
	2019	821	596	0	171	54	..
	2020	733	509	0	167	57	..
	2021	834	609	0	169	56	..
Namibia	2018	23	17	..	..	5	0
	2019	25	20	..	..	5	0
	2020	29	22	..	..	7	0
	2021	28	23	..	..	5	0
Niger	2018	*106	*71	35	..	0	..
	2019	*113	*74	38	1	0	..
	2020	*115	*77	36	1	0	..
	2021	*116	*77	*37	*1	0	..
Nigeria	2018	10,604	*4,967	4,046	1,563	28	..
	2019	10,918	*5,048	4,260	1,579	31	..
	2020	*10,021	*5,121	3,283	1,589	28	..
	2021	*9,637	*5,209	2,923	1,476	29	..
Rwanda	2018	*88	*85	..	*2	1	..
	2019	*88	*85	..	*2	1	..
	2020	*89	*85	..	*2	2	..
	2021	*89	*85	..	*2	2	..

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
*28	0	0	..	..	*46	*21
*29	0	0	..	0	*46	*21
*26	0	0	..	..	*44	*19
*38	0	0	..	0	*56	*25
5	0	0	0	*-3	91	19
13	0	0	0	1	99	20
9	0	0	0	0	99	19
4	0	0	0	-5	102	20
243	2,398	2	11	..	921	142
282	2,517	2	12	..	1,031	157
263	961	1	4	..	460	69
255	2,539	2	12	..	699	104
48	0	2	0	-3	355	13
59	0	2	0	1	374	14
52	0	*1	0	0	*381	*14
57	..	*1	0	*-2	*401	*14
20	0	0	..	*-2	88	5
20	0	0	..	-1	90	5
23	0	0	..	3	90	5
19	0	0	..	-2	92	5
71	*2	3	..	..	263	13
77	*2	3	..	0	277	13
85	*2	3	..	0	292	14
*90	*2	*3	..	0	*299	*14
71	0	1	..	*5	85	20
76	..	1	..	*7	89	20
75	..	1	..	*5	91	20
*70	..	1	..	*5	*87	*19
104	..	7	24	15	68	52
110	3	6	27	14	69	54
84	..	2	26	6	57	44
79	..	1	25	2	59	45
836	1	32	6	17	878	24
867	5	34	6	-19	945	26
803	2	12	6	-9	894	24
875	3	17	6	-8	965	26
101	595	1	0	14	445	15
99	471	1	0	-2	450	15
87	369	1	0	9	442	14
108	455	1	0	16	470	15
68	4	2	*1	0	84	35
67	5	2	*1	0	84	35
59	8	0	*1	..	79	32
60	8	1	*1	..	79	31
7	15	*2	..	*2	*94	*4
6	4	*2	..	6	*107	*5
10	14	2	..	0	*109	*4
7	9	*2	..	..	*112	*4
555	4,894	29	14	-99	6,322	32
947	5,123	29	14	0	6,699	33
933	4,148	13	11	61	6,721	32
966	3,465	20	9	214	6,896	32
17	0	*1	..	0	*103	*8
25	0	*1	..	*7	*105	*8
17	0	*1	..	..	*105	*8
20	0	*1	..	..	*108	*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	2018	1	1	..	..	0	..
	2019	1	1	..	..	0	..
	2020	1	1	..	..	0	..
	2021	*1	*1	..	..	0	..
Senegal	2018	69	68	..	0	0	1
	2019	75	73	..	1	*1	1
	2020	86	83	..	0	*2	0
	2021	87	82	..	0	4	0
Seychelles	2018	0	0	..	..	0	..
	2019	0	0	..	..	0	..
	2020	0	0	..	..	0	..
	2021	0	0	..	..	0	..
Sierra Leone	2018	55	54	..	..	1	..
	2019	56	55	..	..	1	..
	2020	56	55	..	..	1	..
	2021	57	56	..	..	1	..
Somalia	2018	143	143	..	..	0	..
	2019	147	147	..	..	0	..
	2020	151	151	..	..	0	..
	2021	155	155	..	..	0	..
South Africa	2018	6,500	6,281	4	35	39	141
	2019	6,593	6,346	3	40	38	165
	2020	6,308	6,098	2	39	40	129
	2021	5,876	5,661	2	1	55	156
South Sudan	2018	313	8	305	..	0	..
	2019	372	8	364	..	0	..
	2020	359	9	350	..	0	..
	2021	332	9	324	..	0	..
St. Helena and Depend.	2018	0	0	..	..	0	..
	2019	0	0	..	..	0	..
	2020	0	0	..	..	0	..
	2021	0	0	..	..	0	..
Sudan	2018	468	271	162	..	35	..
	2019	*407	*207	*164	..	37	..
	2020	346	*169	137	..	40	..
	2021	*383	*186	*161	..	*36	..
Togo	2018	125	124	..	..	1	..
	2019	130	129	..	..	1	..
	2020	138	137	..	..	1	..
	2021	129	129	..	..	1	..
Tunisia	2018	232	46	92	86	2	7
	2019	213	46	78	79	3	7
	2020	207	46	72	81	3	6
	2021	235	45	88	93	3	6
Uganda	2018	741	728	..	..	13	..
	2019	770	756	..	..	15	..
	2020	874	858	..	..	15	..
	2021	899	883	..	..	16	..
United Rep. of Tanzania	2018	858	792	..	57	*9	..
	2019	906	835	..	62	9	..
	2020	912	845	..	55	11	..
	2021	938	864	..	63	11	..
Zambia	2018	397	348	..	..	49	..
	2019	395	350	..	..	45	..
	2020	405	358	..	..	47	..
	2021	*417	*359	..	..	58	..

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	15
*2	..	0	..	..	*3	*14
*2	..	0	..	..	*3	*14
159	*19	9	*6	*4	191	12
179	*29	8	8	-1	209	13
124	2	6	10	-3	195	12
144	3	7	8	0	212	13
16	0	*1	*6	0	8	81
15	0	*2	*5	0	8	79
*13	0	2	*3	0	*8	*79
*15	0	*2	*3	*2	*9	*80
15	..	0	..	0	70	9
17	..	0	..	*2	70	9
19	..	0	..	*4	71	9
21	..	0	..	*3	75	9
*12	..	2	*1	..	152	10
*12	..	2	*1	..	156	10
*11	..	*2	*1	..	159	10
*12	..	*2	*1	..	163	10
1,746	2,477	*86	111	36	5,536	97
1,591	2,090	*93	101	56	5,844	101
1,236	1,898	*50	117	-15	5,494	93
1,224	1,651	33	101	-158	5,474	92
25	302	3	..	..	33	3
25	360	4	..	..	33	3
23	347	2	..	..	32	3
20	316	3	..	..	33	3
0	..	..	..	..	0	35
0	..	..	..	..	0	38
0	..	..	..	..	0	31
0	..	..	..	..	0	*33
171	47	6	*1	..	586	14
211	47	3	*1	..	*567	*13
159	8	2	0	..	495	11
157	*6	*5	*1	..	*528	*12
26	1	3	0	-1	148	18
25	0	2	0	0	153	19
28	..	2	0	0	163	19
32	..	3	..	..	158	18
345	85	13	0	-5	484	41
348	73	13	0	1	473	39
327	77	4	0	3	450	37
354	94	6	0	4	485	40
*201	1	5	..	..	937	23
*207	1	5	..	..	971	23
211	1	2	..	0	1,081	24
193	1	4	..	..	1,086	24
126	3	6	1	..	974	17
137	3	7	1	..	1,033	17
137	3	3	1	..	1,042	17
154	5	4	1	..	1,083	17
56	5	1	..	-1	448	25
69	4	1	..	0	458	25
61	5	1	..	*-7	468	25
72	8	1	..	*-1	*481	*25

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	2018	432	412	2	..	18	..
	2019	419	402	2	..	15	..
	2020	424	408	2	..	14	..
	2021	*450	*427	2	..	21	..
Asia	**2018**	**276,299**	**128,231**	**84,293**	**46,788**	**9,367**	**7,619**
	2019	**280,782**	**132,137**	**80,748**	**49,059**	**10,294**	**8,545**
	2020	**275,223**	**130,811**	**75,474**	**49,350**	**10,925**	**8,663**
	2021	**287,716**	**137,683**	**76,773**	**51,612**	**12,065**	**9,582**
Afghanistan	2018	90	80	..	5	4	..
	2019	82	73	..	5	5	..
	2020	*78	*71	..	3	4	..
	2021	*91	*84	..	*3	*5	..
Armenia	2018	39	8	..	..	8	23
	2019	41	8	..	..	9	24
	2020	45	8	..	..	7	30
	2021	39	7	..	..	9	22
Azerbaijan	2018	2,348	5	1,661	675	7	..
	2019	2,474	5	1,601	862	6	..
	2020	2,412	5	1,472	931	4	..
	2021	2,624	4	1,469	1,145	5	..
Bahrain	2018	946	0	427	520	0	..
	2019	1,047	0	438	609	0	..
	2020	1,045	0	439	606	0	..
	2021	1,024	0	430	594	0	..
Bangladesh	2018	1,542	556	18	963	5	..
	2019	1,539	547	17	970	4	..
	2020	1,453	542	16	890	5	..
	2021	1,455	536	14	901	4	..
Bhutan	2018	78	53	..	..	25	..
	2019	85	53	..	..	32	..
	2020	91	50	..	..	41	..
	2021	93	52	..	..	41	..
Brunei Darussalam	2018	639	0	232	407	0	..
	2019	637	0	253	384	0	..
	2020	604	0	231	373	0	..
	2021	564	0	223	340	0	..
Cambodia	2018	83	66	..	..	17	..
	2019	81	66	..	..	15	..
	2020	83	68	..	..	16	..
	2021	90	67	2	..	21	..
China	2018	104,714	80,662	8,331	6,269	6,273	3,179
	2019	109,445	83,446	8,407	6,978	6,851	3,762
	2020	111,707	84,169	8,548	7,652	7,382	3,956
	2021	118,364	88,676	8,729	8,319	8,240	4,401
China, Hong Kong SAR	2018	..	..	..	..	..	..
	2019	..	..	..	..	..	..
	2020	..	..	..	..	..	..
	2021	..	..	..	..	..	..
China, Macao SAR	2018	3	3	..	..	0	..
	2019	4	4	..	..	0	..
	2020	3	3	..	..	0	..
	2021	4	4	..	..	0	..
Cyprus	2018	6	1	..	1	2	3
	2019	7	1	..	1	2	3
	2020	7	1	..	1	2	3
	2021	8	2	..	1	3	3

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
68	6	2	..	15	478	32
64	8	2	..	2	471	31
54	11	1	..	10	456	29
63	35	2	..	-12	*488	*30
123,481	**100,550**	**3,582**	**4,423**	**1,868**	**289,356**	**63**
124,976	**95,917**	**3,657**	**4,529**	**2,754**	**298,901**	**65**
120,726	**89,313**	**1,653**	**4,554**	**4,019**	**296,410**	**64**
123,076	**90,484**	**1,661**	**4,668**	**1,611**	**312,368**	**67**
123	31	*2	..	*-2	182	5
133	22	0	..	*8	186	5
132	15	*1	..	*-1	195	5
*125	38	*1	..	*-1	*179	*4
103	6	3	..	0	133	47
112	5	3	..	1	144	51
118	5	2	..	1	156	56
128	4	*2	..	1	160	57
78	1,805	5	2	7	607	60
13	1,800	14	1	7	664	65
12	1,753	15	1	10	644	63
13	1,942	18	1	-4	679	66
485	835	21	..	-7	582	391
493	863	22	..	-16	672	449
396	786	13	..	-24	667	451
403	790	14	..	-27	650	444
434	1	17	5	..	1,953	12
581	2	18	6	..	2,094	13
664	0	14	6	..	2,097	13
822	1	10	6	..	2,260	13
16	17	0	..	..	77	101
14	23	0	..	..	76	99
13	34	0	..	..	71	92
16	29	0	..	..	79	101
16	488	4	..	8	156	359
98	553	5	..	7	171	389
347	776	2	0	10	164	371
343	731	1	..	7	168	377
151	..	6	..	..	228	14
196	..	7	..	..	269	17
195	..	2	..	..	276	17
188	2	1	..	..	276	17
31,611	3,392	445	440	1,417	130,631	92
34,047	3,624	467	426	2,653	136,323	96
35,874	3,294	210	450	3,453	140,174	98
36,133	3,346	193	501	1,572	148,885	104
1,363	11	302	455	6	589	79
1,291	12	273	404	17	585	78
999	6	149	297	32	514	68
946	3	135	264	31	514	69
39	..	..	3	0	40	61
38	..	..	2	0	40	61
33	..	..	0	0	36	54
34	..	..	0	0	38	55
113	..	14	11	-1	95	78
113	..	13	12	0	95	77
100	..	4	12	2	89	72
101	1	7	11	-2	92	74

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
Georgia	2018	52	14	1	0	36	1
	2019	46	11	2	0	32	1
	2020	44	11	1	0	30	1
	2021	51	11	2	1	37	1
India	2018	23,978	19,889	1,665	1,154	861	408
	2019	24,030	19,899	*1,571	*1,062	996	502
	2020	23,600	19,641	*1,476	*975	*1,043	*465
	2021	25,144	20,903	*1,435	*1,163	*1,135	*509
Indonesia	2018	20,363	15,580	1,964	2,288	71	461
	2019	21,146	16,505	1,974	2,137	74	456
	2020	20,293	15,444	2,069	2,217	78	486
	2021	21,363	16,525	1,986	2,208	71	572
Iran (Islamic Rep. of)	2018	16,585	*131	8,745	7,569	60	80
	2019	14,961	*126	6,241	8,460	62	73
	2020	14,937	*128	5,584	9,104	62	60
	2021	16,140	*130	6,537	9,377	62	33
Iraq	2018	9,969	2	9,580	381	7	..
	2019	10,296	2	9,881	395	18	..
	2020	8,794	2	8,524	252	15	..
	2021	8,812	2	8,470	328	12	..
Israel	2018	333	5	3	303	6	15
	2019	343	6	4	304	10	21
	2020	577	6	6	529	13	23
	2021	716	5	7	661	17	25
Japan	2018	2,074	613	17	94	544	806
	2019	2,086	610	18	88	565	804
	2020	1,813	574	18	81	601	539
	2021	2,228	619	16	80	628	885
Jordan	2018	23	3	0	3	8	9
	2019	26	3	0	3	11	9
	2020	33	3	0	5	15	9
	2021	37	4	1	5	18	9
Kazakhstan	2018	7,338	2,040	3,847	1,410	40	..
	2019	6,984	1,883	3,853	1,206	42	..
	2020	6,650	1,857	3,647	1,102	44	..
	2021	6,650	1,921	3,723	961	45	..
Korea, Dem.Ppl's.Rep.	2018	723	677	..	..	46	..
	2019	791	751	..	..	40	..
	2020	755	709	..	..	46	..
	2021	645	587	..	..	58	..
Korea, Republic of	2018	1,862	267	67	18	56	1,455
	2019	1,989	244	70	17	68	1,589
	2020	2,169	243	75	15	92	1,744
	2021	2,155	236	80	10	108	1,721
Kuwait	2018	6,879	0	6,266	612	0	..
	2019	6,766	0	6,097	669	0	1
	2020	6,353	0	5,616	735	0	2
	2021	6,218	0	5,490	726	0	2
Kyrgyzstan	2018	97	36	8	1	52	..
	2019	100	40	10	1	50	..
	2020	103	41	10	1	50	..
	2021	106	47	12	1	47	..
Lao People's Dem. Rep.	2018	296	213	..	..	83	..
	2019	276	208	..	..	68	..
	2020	297	202	..	..	*95	..
	2021	317	205	..	..	*112	..

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
165	7	5	0	2	204	54
176	2	4	0	0	215	57
170	2	2	0	1	208	55
181	7	4	0	0	221	59
18,783	3,106	*182	*68	-52	39,456	29
*19,411	3,005	*175	*70	384	39,808	29
*16,916	2,618	*56	*60	476	37,306	27
*17,308	2,899	77	*66	-647	40,057	28
2,455	12,492	46	9	76	10,196	38
2,160	12,153	40	9	45	11,058	41
1,738	11,517	19	*15	298	10,182	37
2,134	11,951	8	12	1,288	10,237	37
368	5,938	35	58	0	10,921	128
375	3,586	20	58	18	11,653	135
259	3,054	15	58	7	12,062	138
255	3,988	20	58	0	12,328	140
408	8,116	10	12	27	2,212	55
529	8,465	9	12	-16	2,354	57
691	7,473	6	10	6	1,989	47
698	7,533	13	10	-8	1,962	45
908	278	48	13	-25	927	110
936	290	49	14	12	914	106
797	386	18	16	6	948	108
783	507	23	17	-5	955	107
17,180	778	302	178	70	17,927	142
16,695	840	303	179	-33	17,493	139
14,965	493	119	194	-189	16,160	129
15,474	610	166	193	-33	16,765	135
379	11	3	0	0	389	37
385	11	*4	1	1	394	37
336	11	*2	2	*11	344	31
303	11	*2	2	*-8	333	30
457	4,697	27	0	30	3,041	164
653	4,609	20	0	-3	3,010	160
545	4,403	9	0	20	2,764	146
162	*3,997	21	0	-93	2,887	150
43	..	..	..	..	766	30
47	..	..	..	..	837	33
45	..	..	..	..	800	31
37	..	..	..	..	682	26
13,558	2,967	220	382	37	11,815	229
13,256	2,905	234	334	37	11,735	227
12,412	2,589	125	399	-81	11,549	223
12,894	2,465	110	423	-163	12,214	236
181	5,487	40	42	-130	1,621	375
188	5,276	41	41	-72	1,667	375
224	4,997	19	39	-1	1,524	350
337	4,982	19	39	2	1,512	356
117	24	0	..	-2	192	31
82	26	0	..	-3	159	25
80	25	0	..	8	150	23
97	27	0	..	4	172	26
50	102	3	..	*-10	252	35
*54	*81	*2	..	*6	241	33
*53	*104	*2	..	0	*244	*33
*53	*134	*2	..	*-8	*242	*33

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
Lebanon	2018	*8	*5	..	0	1	*1
	2019	10	5	..	0	4	1
	2020	10	5	..	0	4	*1
	2021	10	5	..	..	*4	1
Malaysia	2018	3,956	105	1,439	2,315	97	..
	2019	4,167	126	1,364	2,577	100	..
	2020	3,760	110	1,215	2,328	106	..
	2021	3,904	114	1,130	2,540	120	..
Maldives	2018	0	0	..	..	0	..
	2019	0	0	..	..	0	..
	2020	0	0	..	..	0	..
	2021	0	0	..	..	0	..
Mongolia	2018	1,396	1,362	32	..	2	..
	2019	1,409	1,373	34	..	*2	..
	2020	1,172	1,147	24	..	2	..
	2021	885	855	27	..	3	..
Myanmar	2018	1,048	393	33	581	40	0
	2019	1,139	421	19	665	34	1
	2020	1,067	420	20	595	30	1
	2021	1,110	*409	9	657	35	1
Nepal	2018	433	403	..	8	17	4
	2019	440	404	..	10	22	4
	2020	453	416	..	10	22	5
	2021	476	426	..	10	35	5
Oman	2018	3,446	0	2,074	1,371	0	..
	2019	3,407	0	2,019	1,387	0	..
	2020	3,341	0	1,980	1,360	0	..
	2021	3,505	0	2,017	1,487	0	..
Other Asia	2018	419	70	7	8	31	303
	2019	483	70	13	6	40	353
	2020	473	69	15	5	40	344
	2021	446	70	20	5	48	304
Pakistan	2018	2,355	*798	200	1,126	132	99
	2019	2,357	*816	174	1,108	153	106
	2020	2,205	*867	172	893	154	120
	2021	2,429	*874	*188	1,036	147	184
Philippines	2018	1,223	609	42	154	42	376
	2019	1,274	655	42	155	37	385
	2020	1,229	633	34	140	35	387
	2021	1,256	673	35	120	43	385
Qatar	2018	9,297	0	3,126	6,170	..	..
	2019	9,363	0	3,118	6,245	..	..
	2020	9,216	0	3,004	6,213	..	..
	2021	9,138	0	2,870	6,269	..	..
Saudi Arabia	2018	28,460	..	24,231	4,227	0	2
	2019	27,375	..	23,106	4,267	*1	2
	2020	25,916	..	21,613	4,299	*3	2
	2021	26,624	..	22,193	4,425	*4	*2
Singapore	2018	26	25	..	..	1	..
	2019	27	25	..	..	1	..
	2020	25	24	..	..	2	..
	2021	25	22	..	..	3	..
Sri Lanka	2018	153	128	..	..	25	..
	2019	150	130	..	..	20	..
	2020	153	133	..	..	20	..
	2021	*166	*136	..	..	30	..

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
353	..	*12	1	..	348	58
353	..	*12	*1	..	350	61
*337	..	*11	*1	*3	*332	*59
*269	..	*9	*1	..	*268	*48
2,351	2,329	107	17	45	3,810	118
2,288	2,185	107	17	55	4,091	125
2,102	2,094	40	22	-66	3,771	114
2,250	2,277	32	27	-166	3,984	119
28	..	*1	*3	..	25	51
31	..	*1	*2	..	28	56
26	..	0	*2	..	24	47
31	..	*1	*3	..	28	54
64	928	2	..	12	518	164
80	945	2	..	*2	541	167
77	820	1	..	0	428	130
76	475	1	..	*2	483	144
279	448	3	0	-5	880	17
286	532	3	0	..	891	17
255	444	1	..	0	877	16
200	498	0	..	-5	817	15
160	0	5	..	1	587	21
149	0	4	..	15	570	20
179	0	2	..	0	630	21
175	2	4	..	..	645	21
79	2,361	18	*2	0	1,143	248
94	2,454	27	*4	0	1,015	221
80	2,280	7	*8	..	1,126	248
77	2,329	6	*2	..	1,244	275
5,529	854	142	53	-29	4,928	208
5,478	901	147	58	17	4,838	203
5,083	596	91	54	71	4,744	199
5,502	659	89	67	29	5,105	214
1,621	37	*9	2	0	3,928	18
1,577	27	*11	1	..	3,895	17
1,938	18	7	1	..	4,118	18
1,989	28	11	0	..	4,379	19
1,610	207	73	4	60	2,489	23
1,564	286	72	2	-36	2,513	23
1,405	242	25	4	-11	2,373	21
1,505	247	24	3	-4	2,491	22
10	7,476	191	..	13	1,627	588
11	7,448	203	..	0	1,723	614
10	7,304	136	..	33	1,753	635
30	7,270	78	..	33	1,788	665
1,982	20,034	*151	*142	*-210	10,325	295
*738	17,700	*149	*136	*-329	10,458	292
*764	16,823	*48	*111	-58	9,755	271
*814	16,345	*47	*120	-29	10,956	305
7,270	3,560	361	2,018	-12	1,369	235
7,265	3,535	372	1,928	-11	1,469	250
6,814	3,224	86	2,025	*28	1,475	250
6,716	3,193	88	2,030	-68	1,498	252
304	4	22	26	-3	408	19
315	2	21	26	1	417	19
282	7	8	15	-5	411	19
297	6	10	20	-26	453	21

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
State of Palestine	2018	8	2	..	..	0	6
	2019	10	3	..	..	0	6
	2020	9	3	..	..	1	6
	2021	10	3	..	..	1	6
Syrian Arab Republic	2018	170	0	42	125	3	..
	2019	186	0	64	120	3	..
	2020	191	0	83	105	3	..
	2021	199	0	84	112	3	..
Tajikistan	2018	*153	*86	1	0	66	..
	2019	157	88	1	0	69	..
	2020	156	89	1	0	65	..
	2021	159	89	1	0	68	..
Thailand	2018	3,021	1,095	867	1,009	50	0
	2019	3,117	1,134	864	1,064	55	0
	2020	2,925	957	799	1,125	43	0
	2021	2,770	891	740	1,095	45	0
Timor-Leste	2018	215	1	26	188	0	..
	2019	206	1	40	165	0	..
	2020	197	1	26	170	0	..
	2021	206	1	26	179	0	..
Türkiye	2018	1,670	801	132	35	316	386
	2019	1,891	841	139	41	431	439
	2020	1,826	754	142	43	410	478
	2021	1,938	863	152	51	365	506
Turkmenistan	2018	3,331	0	452	2,879	0	..
	2019	3,399	0	442	2,956	0	..
	2020	3,255	0	435	2,820	0	..
	2021	3,283	0	426	2,857	0	..
United Arab Emirates	2018	9,626	0	7,935	1,685	4	3
	2019	10,030	0	8,080	1,935	13	2
	2020	9,465	0	7,510	1,934	19	3
	2021	9,442	0	7,573	1,847	20	3
Uzbekistan	2018	2,105	63	132	1,889	21	..
	2019	2,079	61	137	1,858	23	..
	2020	1,730	63	126	1,523	18	..
	2021	2,042	76	*118	1,829	18	..
Viet Nam	2018	2,546	1,374	527	339	305	..
	2019	2,643	1,484	488	346	325	..
	2020	2,337	1,332	393	310	302	0
	2021	2,602	1,544	399	264	395	0
Yemen	2018	174	5	163	4	2	..
	2019	179	5	168	4	2	..
	2020	164	6	152	5	2	..
	2021	154	6	140	7	2	..
Europe	**2018**	**106,903**	**23,033**	**31,288**	**34,815**	**4,597**	**13,170**
	2019	**107,279**	**22,390**	**31,347**	**35,662**	**4,705**	**13,175**
	2020	**101,439**	**20,732**	**29,842**	**33,505**	**5,192**	**12,168**
	2021	**105,492**	**21,883**	**29,871**	**35,664**	**5,247**	**12,827**
Albania	2018	81	9	39	3	31	1
	2019	71	7	43	2	19	1
	2020	63	9	32	2	19	1
	2021	76	11	30	2	32	1
Andorra	2018	1	0	..	..	0	..
	2019	1	0	..	..	0	..
	2020	1	0	..	..	0	..
	2021	1	0	..	..	0	..

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
65	0	..	..	..	74	15
71	0	..	..	..	80	16
72	0	..	..	..	82	16
77	0	..	..	..	87	17
297	30	1	11	..	424	22
241	27	0	11	..	389	19
217	29	0	11	..	368	18
203	28	0	11	..	363	17
47	11	1	..	..	187	20
51	12	2	..	..	195	21
59	8	1	..	..	206	22
60	13	1	..	..	205	21
3,675	630	211	56	165	5,633	79
3,456	502	217	47	34	5,773	81
3,436	524	75	42	134	5,586	78
3,516	523	50	48	-53	5,719	80
8	214	0	..	..	8	7
9	205	0	..	..	10	8
9	196	0	..	..	9	7
9	205	0	..	..	9	7
4,842	250	163	38	31	6,030	73
4,840	403	189	37	-15	6,118	73
4,757	361	81	22	-12	6,131	73
5,181	359	115	24	-32	6,653	78
0	2,340	17	..	..	975	161
0	2,391	15	..	..	993	161
0	2,243	3	..	..	1,010	162
0	2,272	1	..	..	1,010	159
1,710	7,368	301	358	60	3,248	355
1,912	7,442	316	677	*-2	3,509	381
2,209	7,229	196	666	-54	3,637	392
2,188	7,186	220	699	-27	3,553	379
89	466	*4	..	36	1,688	52
83	384	*6	..	-44	1,817	55
141	106	*5	..	-36	1,796	54
123	197	4	..	-33	1,996	59
1,455	319	50	12	*253	3,367	35
1,940	289	56	7	15	4,215	44
2,295	327	25	6	-53	4,327	45
1,752	281	20	5	86	3,961	41
70	93	0	4	..	147	5
66	97	0	4	..	144	5
65	97	0	4	..	129	4
67	90	0	4	..	127	4
67,444	**60,139**	**2,627**	**2,598**	**-262**	**109,245**	**146**
67,547	**62,139**	**2,665**	**2,180**	**1,768**	**106,074**	**142**
59,409	**57,055**	**1,226**	**2,181**	**-653**	**101,039**	**135**
62,085	**58,164**	**1,418**	**2,222**	**-2,302**	**108,076**	**145**
58	38	0	1	5	96	33
68	37	1	1	5	96	34
63	33	1	1	5	86	30
61	38	1	1	2	95	33
9	0	0	..	..	9	125
9	0	0	..	..	9	121
7	0	0	..	..	7	96
7	0	0	..	..	8	101

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
Austria	2018	489	228	44	45	162	9
	2019	504	230	44	41	180	9
	2020	503	237	38	35	183	9
	2021	507	*253	41	31	174	9
Belarus	2018	174	91	76	6	2	..
	2019	184	99	77	6	3	..
	2020	187	96	77	7	3	4
	2021	253	102	78	8	3	62
Belgium	2018	486	97	17	10	42	320
	2019	657	96	18	10	52	481
	2020	572	95	17	10	66	383
	2021	747	101	16	10	65	554
Bosnia and Herzegovina	2018	237	214	..	0	24	..
	2019	226	203	..	0	23	..
	2020	219	202	..	0	18	..
	2021	219	193	..	0	26	..
Bulgaria	2018	506	289	6	3	28	179
	2019	492	277	7	3	20	184
	2020	453	238	5	4	21	185
	2021	503	280	8	4	28	184
Croatia	2018	175	63	32	46	33	1
	2019	164	63	31	39	27	4
	2020	157	65	27	33	27	4
	2021	166	72	26	30	34	4
Czechia	2018	1,154	762	17	33	17	325
	2019	1,119	722	18	32	18	329
	2020	987	594	16	32	19	327
	2021	1,024	624	15	32	19	334
Denmark	2018	571	102	244	168	54	3
	2019	511	98	216	132	62	3
	2020	385	96	151	71	63	3
	2021	383	99	139	79	63	3
Estonia	2018	255	252	..	1	2	..
	2019	213	210	..	1	3	..
	2020	184	179	..	1	4	..
	2021	185	180	..	1	4	..
Faeroe Islands	2018	1	..	..	..	1	..
	2019	1	..	..	..	1	..
	2020	1	..	..	..	1	..
	2021	1	..	..	..	1	..
Finland	2018	804	465	11	8	69	251
	2019	783	432	13	8	67	262
	2020	745	383	12	7	88	256
	2021	796	418	23	8	89	259
France	2018	5,603	556	146	37	378	4,486
	2019	5,453	559	140	41	376	4,336
	2020	4,973	529	129	46	419	3,850
	2021	5,278	575	113	60	406	4,125
Germany	2018	4,686	2,400	289	516	616	865
	2019	4,355	2,032	283	501	684	855
	2020	4,036	1,815	263	494	721	743
	2021	4,244	2,047	266	477	661	794
Gibraltar	2018	0	..	..	..	0	..
	2019	0	..	..	..	0	..
	2020	0	..	..	..	0	..
	2021	0	..	..	..	0	..

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
1,152	234	35	1	-6	1,378	156
1,282	239	41	1	107	1,399	158
1,027	233	14	1	-44	1,326	149
974	229	17	1	-161	1,395	156
1,585	614	6	..	10	1,130	117
1,558	632	8	..	15	1,087	112
1,379	497	5	..	12	1,052	109
1,383	488	5	..	0	1,142	119
3,681	1,459	72	392	21	2,223	194
3,687	1,601	73	347	36	2,286	199
3,198	1,326	50	267	29	2,098	181
3,384	1,492	63	317	-56	2,315	199
142	67	0	..	0	312	92
132	49	0	..	6	303	90
122	46	0	..	-3	298	90
137	53	1	..	-6	308	94
486	196	11	3	0	781	110
525	225	10	3	8	771	109
440	157	6	4	-5	732	105
423	131	7	4	-8	793	115
337	145	8	1	3	354	85
338	130	8	1	2	361	87
321	133	2	1	-6	346	85
339	139	4	1	0	361	89
962	288	17	..	-2	1,813	172
1,004	269	18	..	52	1,785	169
886	229	5	..	-45	1,683	160
996	279	5	..	-49	1,785	170
680	497	43	25	-17	703	122
755	462	44	31	59	669	115
762	451	14	23	17	642	110
709	472	18	20	-94	676	115
118	115	3	12	1	242	183
117	105	3	8	9	204	154
140	117	1	13	5	188	142
134	130	2	13	-18	192	144
*12	..	0	2	..	*11	*208
*12	..	0	2	..	*11	*208
*13	..	0	2	..	*11	*210
*13	..	0	2	..	*11	*215
1,060	391	33	14	11	1,415	257
1,051	428	36	14	-30	1,386	251
990	403	12	13	-14	1,322	239
851	307	12	12	-66	1,383	250
6,347	1,308	254	82	54	10,252	154
6,438	1,383	267	72	60	10,109	151
5,302	1,113	114	41	-87	9,094	136
5,528	1,018	116	45	-199	9,826	147
9,804	1,407	424	71	-76	12,664	153
10,063	1,364	420	57	161	12,416	149
8,994	1,360	194	56	-234	11,653	140
9,424	1,516	260	59	-214	12,047	144
181	..	0	170	..	11	324
187	..	0	174	1	11	343
187	..	0	177	0	10	318
184	..	0	173	0	11	323

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
Greece	2018	301	213	14	5	57	12
	2019	252	163	14	6	57	12
	2020	191	100	11	6	62	13
	2021	199	94	9	5	78	13
Guernsey	2018	0	..	..	..	0	..
	2019	0	..	..	..	0	..
	2020	0	..	..	..	0	..
	2021	0	..	..	..	0	..
Hungary	2018	465	150	65	65	5	179
	2019	458	135	68	59	9	186
	2020	449	133	62	59	12	183
	2021	452	133	66	53	17	183
Iceland	2018	346	..	..	0	50	297
	2019	344	..	..	0	48	296
	2020	337	..	..	0	47	289
	2021	334	..	..	0	50	284
Ireland	2018	209	56	1	117	34	1
	2019	172	38	2	92	39	1
	2020	146	27	2	71	45	1
	2021	124	28	3	55	38	1
Isle of Man	2018	*1	*1	..	..	0	..
	2019	*1	*1	..	..	0	..
	2020	*1	*1	..	..	0	..
	2021	*1	*1	..	..	0	..
Italy	2018	1,452	379	250	266	321	236
	2019	1,437	390	238	249	325	235
	2020	1,462	383	294	222	329	234
	2021	1,428	400	272	196	329	230
Jersey	2018	*1	*1	..	..	..	..
	2019	*1	*1	..	..	..	..
	2020	*1	*1	..	..	..	..
	2021	*1	*1	..	..	..	..
Kosovo	2018	76	75	..	..	1	0
	2019	77	76	..	..	1	0
	2020	80	78	..	..	1	0
	2021	81	79	..	..	2	0
Latvia	2018	119	103	3	4	9	..
	2019	118	104	3	3	8	0
	2020	113	97	3	3	10	0
	2021	113	98	3	3	10	0
Liechtenstein	2018	*1	*1	..	0	0	0
	2019	*1	*1	..	0	0	0
	2020	*1	*1	..	0	0	0
	2021	*1	*1	..	0	0	0
Lithuania	2018	83	56	8	2	6	11
	2019	83	55	8	2	7	11
	2020	82	57	8	2	7	8
	2021	90	65	8	2	7	9
Luxembourg	2018	9	6	..	1	2	0
	2019	10	7	..	1	2	0
	2020	13	10	..	1	2	0
	2021	13	10	..	1	2	0
Malta	2018	1	..	..	0	1	0
	2019	1	..	..	0	1	0
	2020	1	..	..	0	1	0
	2021	1	..	..	0	1	0

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
1,632	869	47	92	-4	929	87
1,593	791	49	106	-16	915	87
1,558	814	15	69	35	816	78
1,624	912	30	77	-37	842	81
1	..	..	..	..	1	19
1	..	..	..	..	1	12
1	..	..	..	..	1	20
1	..	..	..	..	1	19
857	206	12	..	-13	1,117	114
979	198	12	..	113	1,114	114
801	179	4	..	-31	1,098	113
800	177	5	..	-80	1,149	118
54	..	18	3	3	376	1,066
43	..	13	3	-2	374	1,035
30	..	4	1	-1	363	991
38	..	6	2	1	363	981
504	77	46	7	3	579	120
505	69	46	6	-20	575	118
486	71	17	6	-18	557	113
538	71	19	7	-13	579	116
4	0	..	..	..	4	53
5	1	..	..	..	5	58
5	1	..	..	..	5	57
4	0	..	..	..	4	47
6,407	1,308	165	115	-18	6,289	105
6,362	1,241	170	112	55	6,221	104
5,486	1,068	64	103	-31	5,744	96
6,031	1,237	64	106	-196	6,248	105
2	..	..	..	..	3	29
2	..	..	..	..	3	28
2	..	..	..	..	3	27
2	..	..	..	..	3	28
35	3	0	..	0	109	64
39	4	0	..	0	112	67
39	5	0	..	1	112	67
52	12	0	..	0	122	73
186	96	7	2	*8	194	100
181	*89	7	12	*3	188	98
166	*78	2	9	*10	180	95
164	*86	3	9	*-9	188	100
2	..	..	..	..	3	89
2	..	..	..	..	3	89
2	..	..	..	..	3	87
2	..	..	..	..	4	91
599	353	5	9	-1	317	110
613	365	5	8	3	315	111
534	293	2	8	3	310	110
536	291	3	8	3	321	115
188	6	26	..	0	165	271
188	4	26	..	0	168	270
161	5	23	..	0	145	231
171	5	27	..	0	153	239
141	15	7	93	-2	29	58
146	16	7	96	-2	30	60
129	8	3	92	-1	29	56
117	5	3	82	-2	30	56

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
Montenegro	2018	31	23	..	..	8	..
	2019	32	25	..	..	7	..
	2020	31	25	..	..	6	..
	2021	32	23	..	..	8	..
Netherlands (Kingd. of the)	2018	1,537	120	131	1,183	52	51
	2019	1,375	124	118	1,013	61	58
	2020	1,138	132	116	740	86	64
	2021	1,097	142	120	668	107	61
North Macedonia	2018	52	46	0	1	5	0
	2019	52	47	..	1	5	0
	2020	50	44	0	1	5	0
	2021	41	34	..	1	6	0
Norway	2018	8,650	61	3,598	4,473	514	4
	2019	8,150	62	3,386	4,227	471	4
	2020	8,733	62	4,013	4,107	547	3
	2021	8,954	71	4,094	4,223	561	4
Poland	2018	2,741	2,444	81	157	54	4
	2019	2,601	2,294	83	156	64	5
	2020	2,423	2,110	81	156	72	5
	2021	2,507	2,186	81	153	81	6
Portugal	2018	244	121	13	3	94	12
	2019	245	130	14	3	86	12
	2020	254	132	12	3	94	12
	2021	259	134	12	4	98	11
Republic of Moldova	2018	*33	*33	0	0	0	..
	2019	*28	*27	0	0	0	..
	2020	*29	*28	0	0	0	..
	2021	32	31	0	0	1	..
Romania	2018	1,053	320	160	356	93	124
	2019	1,031	315	161	344	87	123
	2020	941	263	159	307	87	125
	2021	966	291	150	309	92	123
Russian Federation	2018	62,422	10,952	23,560	24,980	692	2,239
	2019	64,239	11,011	23,795	26,439	707	2,287
	2020	60,041	10,157	21,905	24,843	777	2,359
	2021	63,711	10,932	22,244	27,310	791	2,433
Serbia	2018	418	324	39	16	39	0
	2019	426	335	38	16	37	0
	2020	458	369	37	15	36	0
	2021	425	330	36	14	45	0
Slovakia	2018	256	61	8	9	15	163
	2019	287	83	8	10	18	168
	2020	280	76	8	8	19	169
	2021	291	85	8	8	18	173
Slovenia	2018	147	64	0	2	18	63
	2019	145	62	0	1	17	64
	2020	151	61	0	1	19	70
	2021	140	58	0	1	19	63
Spain	2018	1,374	277	78	16	335	667
	2019	1,375	243	86	17	323	705
	2020	1,406	244	81	15	370	697
	2021	1,437	255	77	15	409	681
Sweden	2018	1,502	452	16	7	285	741
	2019	1,513	463	19	8	309	715
	2020	1,394	472	19	8	363	532
	2021	1,471	496	26	8	370	572

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
21	7	1	..	-1	45	71
22	7	1	..	-1	47	74
35	23	0	..	-1	44	70
37	22	1	..	0	46	73
7,763	5,575	172	463	49	3,040	176
7,734	5,393	169	472	100	2,975	171
6,953	4,579	94	492	40	2,886	166
7,336	5,261	103	473	-365	2,961	169
76	9	..	..	-1	120	57
78	9	..	..	-1	123	58
75	7	..	..	1	117	55
83	8	..	..	1	115	55
463	7,830	24	15	23	1,221	230
500	7,487	24	14	-35	1,160	217
459	7,986	7	13	37	1,148	213
456	8,236	7	13	-36	1,189	220
2,657	655	43	11	109	4,580	119
2,657	616	46	12	172	4,412	115
2,453	596	20	13	-37	4,285	112
2,501	623	24	15	-204	4,550	119
1,057	271	59	34	19	919	89
1,009	240	63	40	2	910	88
866	263	22	29	-42	848	82
867	245	28	28	-18	843	82
94	1	2	..	1	123	39
92	0	2	..	0	117	38
89	1	1	..	3	113	37
97	0	2	..	2	124	41
604	256	5	1	-16	1,411	72
677	249	6	1	55	1,397	72
599	213	2	2	-32	1,355	70
681	221	3	1	-19	1,440	75
*1,121	29,899	246	*497	-325	33,226	228
*981	32,812	251	96	461	31,599	217
1,001	29,356	206	288	-260	31,453	216
930	29,201	245	256	*181	34,759	240
285	66	6	1	-5	635	85
280	56	6	1	11	633	86
257	61	3	1	-8	657	89
299	67	5	1	-17	668	92
645	191	2	..	-8	716	132
691	195	2	..	75	705	129
594	207	1	..	-18	683	125
639	248	1	..	-63	743	136
278	125	2	9	-1	290	138
285	133	1	8	2	286	135
240	115	0	5	0	271	128
236	100	0	4	-4	277	130
5,554	1,322	200	293	-58	5,171	111
5,420	1,208	205	301	51	5,030	107
4,544	1,187	66	267	-98	4,528	96
4,858	1,227	77	307	-110	4,794	101
1,488	849	40	75	-37	2,063	203
1,288	638	38	85	32	2,008	196
1,345	714	15	106	97	1,807	174
1,295	860	15	106	-158	1,945	186

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
Switzerland	2018	518	100	0	5	133	279
	2019	544	103	1	6	145	289
	2020	519	103	0	6	146	264
	2021	474	111	0	6	144	213
Ukraine	2018	2,529	751	100	692	46	940
	2019	2,503	739	108	685	41	930
	2020	2,374	716	105	668	55	831
	2021	2,249	527	104	613	65	939
United Kingdom	2018	5,108	313	2,241	1,580	269	705
	2019	5,043	324	2,307	1,508	296	609
	2020	4,875	312	2,156	1,519	343	545
	2021	4,189	315	1,803	1,276	296	498
Latin America & Carib.	**2018**	**39,033**	**8,014**	**20,021**	**7,191**	**3,063**	**743**
	2019	**38,088**	**7,954**	**19,177**	**7,104**	**3,096**	**756**
	2020	**35,753**	**7,087**	**18,206**	**6,574**	**3,110**	**776**
	2021	**36,074**	**7,327**	**18,099**	**6,685**	**3,162**	**800**
Anguilla	2018	0	0	..	..	0	..
	2019	0	0	..	..	0	..
	2020	0	0	..	..	0	..
	2021	0	0	..	..	0	..
Antigua and Barbuda	2018	0	..	..	..	0	..
	2019	0	..	..	..	0	..
	2020	0	..	..	..	0	..
	2021	0	..	..	..	0	..
Argentina	2018	3,145	89	1,353	1,480	153	70
	2019	3,284	99	1,394	1,553	152	86
	2020	3,060	92	1,309	1,420	125	116
	2021	3,158	99	1,393	1,425	125	117
Aruba	2018	*1	0	..	..	*1	..
	2019	*1	0	..	..	*1	..
	2020	*1	0	..	..	*1	..
	2021	*1	0	..	..	*1	..
Bahamas	2018	0	0	..	..	0	..
	2019	0	0	..	..	0	..
	2020	0	0	..	..	0	..
	2021	0	0	..	..	0	..
Barbados	2018	3	1	1	1	0	..
	2019	3	0	1	1	0	..
	2020	2	0	1	0	0	..
	2021	2	0	1	0	0	..
Belize	2018	8	5	2	0	1	..
	2019	7	5	2	0	0	..
	2020	7	5	1	0	1	..
	2021	8	6	1	0	1	..
Bolivia (Plur. State of)	2018	834	43	129	652	10	..
	2019	745	44	120	568	13	..
	2020	716	44	112	548	12	..
	2021	738	*45	116	564	13	..
Bonaire, St Eustatius, Saba	2018	0	..	..	..	0	..
	2019	0	..	..	..	0	..
	2020	0	..	..	..	0	..
	2021	0	..	..	..	0	..
Brazil	2018	12,538	3,206	6,720	855	1,587	169
	2019	12,975	3,047	7,218	877	1,658	174
	2020	13,393	3,241	7,541	788	1,671	152
	2021	13,470	3,335	7,373	936	1,627	200

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
675	136	79	0	-19	997	117
715	148	80	0	8	1,023	119
625	136	29	0	8	971	112
620	121	33	0	-14	954	110
1,421	56	..	..	-28	3,922	88
1,460	66	..	..	161	3,736	85
1,291	52	..	..	67	3,547	81
1,358	48	..	..	-108	3,668	84
6,012	3,201	504	103	57	7,256	109
5,774	3,180	506	96	50	6,986	105
4,752	2,938	205	79	-7	6,412	96
5,164	2,589	202	81	-165	6,646	99
12,793	**16,429**	**543**	**411**	**-126**	**34,570**	**54**
12,343	**14,733**	**597**	**397**	**-82**	**34,786**	**54**
10,561	**14,257**	**275**	**333**	**-1,056**	**32,505**	**50**
12,042	**13,063**	**372**	**353**	**-472**	**34,798**	**53**
2	..	0	0	*-1	2	125
2	..	0	0	0	2	135
2	..	0	0	0	2	126
2	..	0	0	0	2	128
*14	0	*2	*3	..	*9	*95
*14	0	2	*3	..	*9	*98
*14	0	*2	*3	..	*9	*94
*14	0	*2	*3	..	*9	*96
562	355	39	30	1	3,282	74
400	362	39	19	-21	3,285	73
352	331	17	14	-6	3,057	68
569	324	17	*6	-22	3,402	75
*16	..	*4	0	..	*13	*119
*15	..	*4	0	..	*12	*113
*15	..	*3	0	..	*12	*111
*16	..	*4	0	..	*12	*117
54	0	*11	*6	2	35	87
56	0	*12	*6	*1	36	89
44	0	*11	*6	*-2	29	72
68	0	*17	*9	*7	36	87
23	1	*6	..	0	20	70
23	1	*6	..	-1	19	67
19	2	*3	..	-1	17	60
18	1	*3	..	0	16	55
10	1	1	..	0	16	41
12	1	1	..	0	17	45
10	0	1	..	0	15	38
11	0	1	..	0	17	42
60	505	3	..	0	385	33
76	429	3	..	1	387	33
44	434	1	..	0	324	27
76	437	1	..	-2	378	31
*3	..	0	*2	0	*2	*65
*4	..	0	*2	0	*2	*67
*3	..	0	*1	0	*2	*66
*3	..	0	*2	0	*2	*64
2,649	2,716	105	121	48	12,196	58
2,589	3,047	102	140	88	12,186	58
2,273	3,574	43	156	-35	11,927	56
2,808	3,235	46	123	-2	12,877	60

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
British Virgin Islands	2018	0	0	..	..	0	..
	2019	0	0	..	..	0	..
	2020	0	0	..	..	0	..
	2021	0	0	..	..	0	..
Cayman Islands	2018	..	..	..	..	..	..
	2019	..	..	..	..	..	..
	2020	..	..	..	..	..	..
	2021	..	..	..	..	..	..
Chile	2018	571	379	17	48	116	10
	2019	572	360	22	58	122	10
	2020	*525	*325	17	45	128	11
	2021	543	330	16	45	135	16
Colombia	2018	5,086	2,469	1,982	430	205	..
	2019	5,268	2,620	2,012	438	197	..
	2020	4,025	1,632	1,786	426	181	..
	2021	4,107	1,796	1,694	397	220	..
Costa Rica	2018	89	16	1	0	37	35
	2019	109	19	1	0	35	54
	2020	116	19	1	0	35	61
	2021	116	18	1	0	39	58
Cuba	2018	197	57	105	34	*1	..
	2019	183	48	101	33	*1	..
	2020	170	39	99	32	*1	..
	2021	172	35	103	32	*1	..
Curaçao	2018	1	..	..	..	1	..
	2019	1	..	..	..	1	..
	2020	1	..	..	..	1	..
	2021	1	..	..	..	1	..
Dominica	2018	0	0	..	..	0	..
	2019	0	0	..	..	0	..
	2020	0	0	..	..	0	..
	2021	0	0	..	..	0	..
Dominican Republic	2018	42	32	..	0	9	..
	2019	38	32	..	0	6	..
	2020	44	34	..	0	10	..
	2021	48	35	..	0	12	..
Ecuador	2018	1,242	22	1,119	26	75	0
	2019	1,284	23	1,148	23	89	0
	2020	1,169	22	1,039	20	88	0
	2021	1,158	21	1,023	21	92	0
El Salvador	2018	83	20	..	0	7	56
	2019	81	20	..	1	7	53
	2020	87	19	..	1	11	56
	2021	87	19	..	1	11	56
Falkland Is. (Malvinas)	2018	0	0	..	..	0	..
	2019	0	0	..	..	0	..
	2020	0	0	..	..	0	..
	2021	0	0	..	..	0	..
Grenada	2018	0	0	..	..	0	..
	2019	0	0	..	..	0	..
	2020	0	0	..	..	0	..
	2021	0	0	..	..	0	..
Guatemala	2018	436	383	22	0	21	9
	2019	445	392	23	0	18	11
	2020	457	403	19	0	23	12
	2021	495	447	15	0	22	10

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
*2	..	..	..	..	*2	*75
*3	..	..	..	..	*3	*84
*3	..	..	..	..	*3	*82
*3	..	..	..	..	*3	*83
10	..	2	..	..	9	135
11	..	1	..	..	10	149
10	..	1	..	..	9	136
9	..	0	..	..	9	134
1,150	45	28	5	7	1,635	87
1,220	23	32	4	5	1,728	91
1,080	29	17	1	-16	1,573	82
1,177	39	19	3	4	1,655	85
262	3,900	..	4	-193	1,638	33
242	3,591	58	6	61	1,794	36
189	3,469	26	5	-967	1,681	33
259	2,938	37	6	-393	1,778	35
118	3	9	..	-4	198	39
122	2	10	..	4	215	42
96	3	4	..	-2	207	40
116	4	8	..	3	217	42
236	*30	3	*18	..	382	34
222	*22	4	*17	..	363	32
210	*17	5	*15	..	342	30
211	*3	4	*16	..	359	32
271	120	3	84	..	66	356
120	0	3	81	..	37	191
97	..	2	66	..	30	158
103	..	3	69	..	33	172
*2	0	0	0	0	*2	*35
*2	0	0	0	0	*3	*36
*2	0	0	0	0	*2	*33
*2	0	0	0	0	*2	*33
355	0	24	1	-2	373	35
386	0	20	1	-2	405	37
342	0	9	3	-1	375	34
401	0	16	*2	-2	433	39
269	890	11	29	-16	597	35
294	933	11	23	-19	629	36
255	867	6	6	17	528	30
286	817	8	36	-22	604	34
99	1	8	..	..	173	28
116	1	8	..	..	187	30
96	1	3	..	..	179	28
115	0	6	..	..	195	31
0	..	..	..	..	1	153
1	..	..	..	..	1	156
1	..	..	..	..	1	155
1	..	..	..	..	1	150
5	..	0	..	0	5	39
5	..	0	..	0	5	42
4	..	0	..	0	4	36
5	..	0	..	0	5	38
257	36	5	18	-3	637	38
303	32	4	18	33	660	39
239	23	2	17	3	650	37
307	25	4	20	26	727	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
Guyana	2018	5	5	..	..	0	..
	2019	6	4	3	..	0	..
	2020	162	4	158	..	0	..
	2021	248	4	244	..	0	..
Haiti	2018	145	144	0	..	1	..
	2019	147	146	0	..	1	..
	2020	142	141	0	..	1	..
	2021	144	144	0	..	0	..
Honduras	2018	116	87	..	..	18	11
	2019	107	81	..	..	16	11
	2020	101	74	..	..	16	11
	2021	104	71	..	..	20	13
Jamaica	2018	*8	*7	..	..	2	..
	2019	*13	*11	..	..	2	..
	2020	*12	*10	..	..	2	..
	2021	12	10	..	..	2	..
Mexico	2018	6,733	609	4,425	1,177	168	354
	2019	6,328	569	4,109	1,151	172	327
	2020	6,489	548	4,099	1,312	200	329
	2021	6,498	487	4,139	1,328	240	303
Montserrat	2018	..	..	..	..	..	..
	2019	0	..	..	..	0	..
	2020	0	..	..	..	0	..
	2021	0	..	..	..	0	..
Nicaragua	2018	97	64	..	..	4	29
	2019	96	64	..	0	4	28
	2020	94	63	..	0	4	28
	2021	95	64	..	0	5	26
Panama	2018	44	12	..	..	32	..
	2019	34	12	..	..	22	..
	2020	42	12	..	..	30	..
	2021	46	11	..	..	35	..
Paraguay	2018	346	125	7	..	213	..
	2019	309	122	8	..	178	..
	2020	293	119	7	..	167	..
	2021	273	120	8	..	146	..
Peru	2018	935	103	248	464	119	1
	2019	980	108	259	489	122	1
	2020	891	105	225	439	119	2
	2021	913	106	193	488	124	2
Puerto Rico	2018	1	..	..	0	1	..
	2019	2	..	..	0	2	..
	2020	2	..	..	0	2	..
	2021	2	..	..	0	2	..
Sint Maarten (Dutch part)	2018	..	..	..	..	..	..
	2019	..	..	..	..	..	..
	2020	..	..	..	..	..	..
	2021	..	..	..	..	..	..
St. Kitts-Nevis	2018	0	0	..	..	0	..
	2019	0	0	..	..	0	..
	2020	0	0	..	..	0	..
	2021	0	0	..	..	0	..
St. Lucia	2018	*1	*1	..	..	0	..
	2019	*1	*1	..	..	0	..
	2020	*1	*1	..	..	0	..
	2021	*1	*1	..	..	0	..

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
33	0	1	..	0	38	48
38	0	1	..	3	41	51
38	156	0	..	2	42	52
53	246	0	..	*6	49	61
48	..	1	..	..	192	17
44	..	1	..	..	190	17
47	..	1	..	..	188	17
49	..	1	..	..	193	17
148	20	..	..	4	239	24
163	21	..	..	-1	251	25
143	19	..	..	1	224	22
154	17	..	..	2	238	23
131	12	9	2	0	117	42
154	13	10	3	-2	143	51
130	26	3	3	0	110	39
133	20	5	3	1	116	41
4,385	3,081	173	30	67	7,768	63
4,253	2,844	175	33	-176	7,706	62
3,702	2,919	78	7	-58	7,246	58
3,900	2,747	124	18	-11	7,520	59
0	..	0	0	..	0	96
0	..	0	0	..	0	78
0	..	0	0	..	0	77
0	..	0	0	..	0	*82
72	1	1	..	*-1	167	25
77	2	1	..	2	168	25
69	3	0	..	-1	162	24
75	4	0	..	-3	168	25
157	1	26	..	5	169	41
195	2	26	..	-6	207	49
116	2	9	..	15	131	31
148	2	15	..	-7	185	42
121	155	3	..	1	307	48
116	117	3	..	0	304	47
105	104	1	..	2	292	44
111	83	1	..	-4	304	45
500	414	30	19	-47	1,019	32
469	384	31	17	-43	1,061	32
324	319	11	9	-10	884	27
378	345	13	17	-46	962	29
60	..	..	..	..	61	18
67	..	..	..	..	69	21
49	..	..	..	..	51	16
70	..	..	..	..	72	22
*20	..	*2	*8	..	*11	*255
*21	..	*2	*8	..	*11	*252
*19	..	*2	*7	..	*10	*238
*21	..	*2	*8	..	*11	*245
*4	..	0	..	..	*4	*74
*4	..	0	..	..	*4	*75
*4	..	0	..	..	*3	*70
*3	..	0	..	..	*3	*70
9	..	1	0	..	8	45
9	..	*1	0	..	8	44
*8	..	*1	0	..	*8	*42
*9	..	*1	0	..	*8	*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
St. Vincent-Grenadines	2018	0	0	..	..	0	..
	2019	0	0	..	..	0	..
	2020	0	0	..	..	0	..
	2021	0	0	..	..	0	..
Suriname	2018	44	2	39	0	4	..
	2019	44	2	39	0	3	..
	2020	43	1	39	0	2	..
	2021	44	1	39	0	3	..
Trinidad and Tobago	2018	1,435	0	174	1,260	0	..
	2019	1,444	0	164	1,280	0	..
	2020	1,226	0	153	1,073	0	..
	2021	1,079	0	156	923	0	..
Turks and Caicos Islands	2018	0	0	..	..	0	..
	2019	0	0	..	..	0	..
	2020	0	0	..	..	0	..
	2021	0	0	..	..	0	..
United States Virgin Is.	2018	0	0	..	..	0	..
	2019	0	0	..	..	0	..
	2020	0	0	..	..	0	..
	2021	0	0	..	..	0	..
Uruguay	2018	137	92	3	..	42	..
	2019	142	90	3	..	48	..
	2020	132	93	3	..	36	..
	2021	137	95	3	..	39	..
Venezuela (Bolivar. Rep.)	2018	4,712	40	3,674	763	235	..
	2019	3,440	34	2,549	631	226	..
	2020	2,350	40	1,597	470	242	..
	2021	2,375	27	1,580	523	244	..
Northern America	**2018**	**112,691**	**19,867**	**41,339**	**36,568**	**3,875**	**11,042**
	2019	**119,083**	**18,858**	**44,932**	**40,299**	**3,965**	**11,029**
	2020	**112,135**	**14,804**	**42,685**	**39,629**	**4,220**	**10,796**
	2021	**115,363**	**15,831**	**43,665**	**40,892**	**4,350**	**10,625**
Bermuda	2018	*1	*1	..	..	0	..
	2019	*1	*1	..	..	0	..
	2020	*1	*1	..	..	0	..
	2021	*1	*1	..	..	0	..
Canada	2018	22,498	1,726	11,232	6,925	1,524	1,090
	2019	22,550	1,652	11,634	6,662	1,508	1,095
	2020	21,718	1,474	11,142	6,502	1,537	1,062
	2021	22,562	1,518	11,760	6,757	1,525	1,002
Greenland	2018	2	0	..	..	2	..
	2019	2	0	..	..	1	..
	2020	2	0	..	..	2	..
	2021	2	0	..	..	2	..
St. Pierre-Miquelon	2018	0	0	..	..	..	..
	2019	0	0	..	..	..	..
	2020	0	0	..	..	..	..
	2021	0	0	..	..	..	..
United States	2018	90,191	18,140	30,106	29,643	2,349	9,953
	2019	96,530	17,206	33,298	33,637	2,455	9,934
	2020	90,415	13,330	31,543	33,127	2,681	9,734
	2021	92,799	14,313	31,905	34,135	2,824	9,623
Oceania	**2018**	**18,838**	**12,721**	**711**	**4,813**	**258**	**335**
	2019	**20,004**	**12,980**	**812**	**5,590**	**283**	**339**
	2020	**20,297**	**12,701**	**962**	**5,986**	**308**	**340**
	2021	**19,175**	**11,835**	**866**	**5,778**	**349**	**347**

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
4	0	0	..	0	4	35
3	0	0	..	0	3	32
3	0	0	..	0	4	34
*3	0	0	..	0	*4	*34
9	*14	*2	2	0	35	60
13	*11	*2	*2	0	43	71
13	*8	*1	*1	0	45	74
12	*10	2	*2	0	42	68
137	832	8	17	6	708	471
90	807	7	3	-1	718	473
82	686	4	3	0	616	405
82	510	3	4	0	643	421
*6	..	*1	..	..	*5	*126
*6	..	*1	..	..	*5	*122
*6	..	*1	..	..	*5	*117
*6	..	*1	..	..	*5	*118
..	..	..	..	..	0	1
..	..	..	..	..	0	*1
..	..	..	..	..	0	*1
..	..	..	..	..	0	*2
101	4	5	6	-1	224	65
95	11	4	7	-6	220	64
100	4	2	4	3	219	64
107	11	2	4	-7	234	68
417	3,289	16	6	..	1,819	61
289	2,075	9	4	..	1,641	57
203	1,260	3	3	..	1,287	45
147	1,244	6	3	..	1,269	45
28,007	**34,096**	**1,249**	**875**	**-914**	**105,392**	**285**
26,348	**36,827**	**1,269**	**978**	**966**	**105,390**	**283**
23,051	**35,906**	**747**	**672**	**587**	**97,274**	**260**
24,320	**38,399**	**925**	**744**	**-2,265**	**101,881**	**271**
11	..	*1	0	0	10	160
9	..	*1	0	0	9	138
7	..	*1	0	..	7	102
8	..	*1	0	0	8	119
3,542	13,043	206	19	115	12,657	342
3,780	13,494	208	12	-127	12,743	340
3,204	12,748	90	12	198	11,874	313
3,067	13,488	90	9	-103	12,144	318
8	..	..	1	*-1	9	167
9	..	..	1	0	10	171
8	..	..	1	0	9	166
8	..	..	1	0	9	169
*1	..	..	0	..	*1	*143
*1	..	..	0	..	*1	*156
*1	..	..	0	..	*1	*148
*1	..	..	0	..	*1	*133
24,445	21,053	1,042	854	-1,029	92,715	279
22,549	23,332	1,060	965	1,093	92,628	277
19,832	23,158	656	659	390	85,384	254
21,237	24,911	834	734	-2,161	89,719	266
2,869	**14,442**	**259**	**41**	**125**	**6,841**	**161**
2,859	**15,512**	**272**	**49**	**50**	**6,980**	**161**
2,651	**15,722**	**189**	**38**	**72**	**6,928**	**158**
2,521	**14,930**	**71**	**25**	**-109**	**6,777**	**152**

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
American Samoa	2018	0	..	..	..	0	..
	2019	0	..	..	..	0	..
	2020	0	..	..	..	0	..
	2021	0	..	..	..	0	..
Australia	2018	17,554	12,523	614	4,253	147	17
	2019	18,656	12,782	727	4,956	173	18
	2020	18,958	12,512	879	5,346	202	19
	2021	17,855	11,647	789	5,158	241	20
Cook Islands	2018	0	0	..	..	0	..
	2019	0	0	..	..	0	..
	2020	0	0	..	..	0	..
	2021	0	0	..	..	0	..
Fiji	2018	6	4	..	..	2	..
	2019	7	5	..	..	2	..
	2020	6	4	..	..	2	..
	2021	*6	*4	..	..	2	..
French Polynesia	2018	1	..	..	..	1	0
	2019	1	..	..	..	1	0
	2020	1	..	..	..	1	0
	2021	1	..	..	..	1	0
Guam	2018	0	..	..	..	0	..
	2019	0	..	..	..	0	..
	2020	0	..	..	..	0	..
	2021	0	..	..	..	0	..
Kiribati	2018	*1	*1	..	..	0	..
	2019	*1	*1	..	..	0	..
	2020	*1	*1	..	..	0	..
	2021	*1	*1	..	..	0	..
Marshall Islands	2018	0	0	..	..	0	..
	2019	0	0	..	..	0	..
	2020	0	0	..	..	0	..
	2021	0	0	..	..	0	..
Micronesia (Fed. States of)	2018	0	0	..	..	0	..
	2019	0	0	..	..	0	..
	2020	0	0	..	..	0	..
	2021	0	0	..	..	0	..
Nauru	2018	0	..	..	..	0	..
	2019	0	..	..	..	0	..
	2020	0	..	..	..	0	..
	2021	0	..	..	..	0	..
New Caledonia	2018	2	0	0	..	1	0
	2019	2	0	0	..	2	0
	2020	2	0	0	..	2	0
	2021	3	0	0	..	2	0
New Zealand	2018	738	119	55	158	102	303
	2019	752	118	57	170	101	306
	2020	727	109	49	166	96	307
	2021	705	107	43	146	97	312
Niue	2018	0	0	..	..	0	0
	2019	0	0	..	..	0	0
	2020	0	0	..	..	0	0
	2021	0	0	..	..	0	0
Northern Mariana Islands	2018	..	..	..	..	..	..
	2019	..	..	..	..	..	..
	2020	0	..	..	..	0	..
	2021	0	..	..	..	0	..

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
*7	..	*1	0	..	*6	*115
*7	..	*1	0	..	*6	*118
*6	..	*1	0	..	*5	*116
*6	..	*1	0	..	*5	*119
2,230	13,893	197	23	112	5,560	223
2,217	14,909	209	31	67	5,657	223
2,090	15,144	161	27	64	5,652	220
1,969	14,357	52	16	-95	5,494	212
*2	..	0	0	..	*1	*69
*2	..	0	0	..	*1	*71
*1	..	0	0	..	*1	*61
*1	..	0	0	..	*1	*66
*39	*14	*1	*3	*1	*26	*28
*38	*15	*1	*3	0	*26	*28
*23	*7	0	*1	..	*21	*22
*28	*10	*1	*2	..	*22	*24
13	..	..	..	0	13	45
13	..	..	..	0	13	45
12	..	..	..	0	13	42
13	..	..	..	0	13	44
0	..	..	..	..	0	2
0	..	..	..	..	0	2
0	..	..	..	..	0	2
0	..	..	..	..	0	*2
*1	..	0	..	..	*2	*13
*1	..	0	..	..	*2	*13
*1	..	0	..	..	*2	*13
*1	..	0	..	..	*2	*12
*2	..	0	..	..	*2	*50
*2	..	0	..	..	*2	*51
*2	..	0	..	..	*2	*52
*2	..	0	..	..	*2	*54
*3	..	0	0	..	*2	*20
*3	..	0	0	..	*2	*20
*3	..	0	0	..	*2	*19
*3	..	0	0	..	*2	*19
*1	..	0	0	..	*1	*63
*1	..	0	0	..	*1	*61
*1	..	0	0	..	*1	*61
*1	..	0	0	..	*1	*63
73	..	1	1	1	72	251
68	..	1	0	-1	69	242
64	..	1	0	3	63	219
51	..	0	1	-4	57	197
361	92	54	12	8	933	193
366	95	54	13	-14	970	196
316	72	22	7	7	936	185
314	69	13	4	-8	942	184
0	..	0	..	..	0	*45
0	..	0	..	..	0	*48
0	..	0	..	..	0	*47
0	..	0	..	..	0	*48
*9	..	0	*1	..	*8	*151
*9	..	0	*1	..	*8	*154
*6	..	0	0	..	*5	*110
*7	..	0	*1	..	*6	*120

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
Palau	2018	0	..	..	..	0	..
	2019	0	..	..	..	0	..
	2020	0	..	..	..	0	..
	2021	0	..	..	..	0	..
Papua New Guinea	2018	530	69	41	402	3	15
	2019	580	69	29	463	4	15
	2020	596	70	34	474	4	14
	2021	*598	*70	*34	*474	5	*15
Samoa	2018	*2	*1	..	0	0	0
	2019	*2	*1	..	0	0	0
	2020	2	1	..	0	0	0
	2021	*2	*1	..	0	0	0
Solomon Islands	2018	*3	*3	..	..	0	..
	2019	*3	*3	..	..	0	..
	2020	*3	*3	..	..	0	..
	2021	*3	*3	..	..	0	..
Tonga	2018	0	0	..	..	0	..
	2019	0	0	..	..	0	..
	2020	0	0	..	..	0	..
	2021	0	0	..	..	0	..
Tuvalu	2018	0	..	..	..	0	..
	2019	0	..	..	..	0	..
	2020	0	..	..	..	0	..
	2021	0	..	..	..	0	..
Vanuatu	2018	1	1	0	..	0	..
	2019	1	1	0	..	0	..
	2020	1	1	0	..	0	..
	2021	1	1	0	..	0	..
Wallis and Futuna Is.	2018	0	0	..	..	0	..
	2019	0	0	..	..	0	..
	2020	0	0	..	..	0	..
	2021	0	0	..	..	0	..

Components of Total Energy Supply

Petajoules and gigajoules per capita

Imports	Exports	International bunkers		Stock changes	Supply	
		Aviation	Marine		Total	Per capita
*3	..	0	..	..	*3	*167
*3	..	0	..	..	*3	*171
*3	..	0	..	..	*3	*164
*3	..	0	..	..	*3	*163
112	443	3	0	3	193	21
115	494	*2	0	*-3	201	21
108	499	*3	0	-1	203	21
*107	*495	*3	0	0	*208	*21
4	0	*1	..	0	5	25
5	0	*1	..	0	6	27
*4	0	0	..	0	*5	*24
*4	0	0	..	0	*5	*24
*5	0	0	0	..	*8	*11
*5	0	0	0	..	*8	*11
*5	0	0	0	..	*8	*11
*5	0	0	0	..	*8	*11
2	..	0	0	0	2	18
2	..	0	0	0	2	22
2	..	0	0	*-1	3	25
2	..	0	0	*-1	3	25
0	..	0	..	..	0	*13
0	..	0	..	..	0	*13
0	..	0	..	..	0	*12
0	..	0	..	..	0	*12
3	0	0	0	..	3	11
3	0	0	0	..	3	11
4	..	0	0	..	4	12
4	..	0	0	..	4	13
0	..	0	..	..	0	31
0	..	0	..	..	0	32
0	..	0	..	..	0	34
0	..	0	..	..	0	35

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, 2021

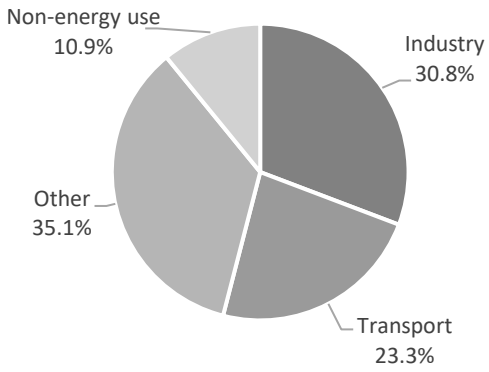


Figure 10: Total final consumption by region, 1990-2021

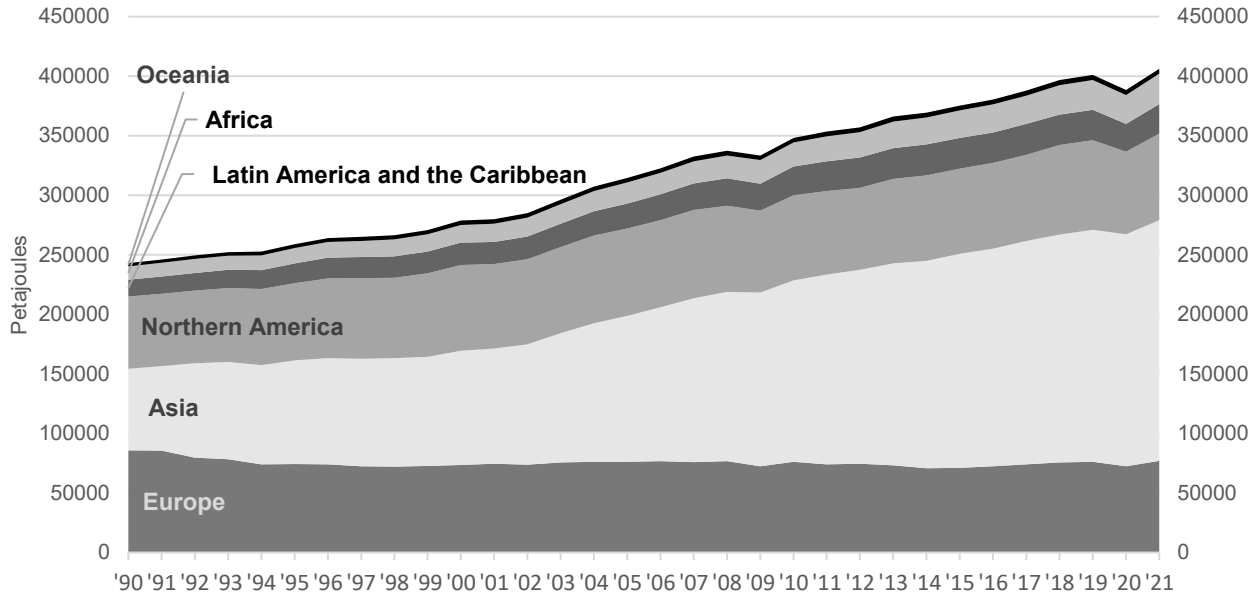


Table 3

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	**2018**	**396,669**	**39,789**	**120,468**	**97,841**	**138,571**	**52**
	2019	**400,957**	**41,149**	**122,071**	**98,468**	**139,270**	**52**
	2020	**388,405**	**42,353**	**120,815**	**87,518**	**137,719**	**50**
	2021	**406,203**	**44,272**	**124,997**	**94,467**	**142,467**	**51**
Africa	**2018**	**24,733**	**678**	**3,847**	**4,792**	**15,416**	**19**
	2019	**24,996**	**849**	**3,645**	**5,190**	**15,311**	**19**
	2020	**24,353**	**784**	**3,487**	**4,679**	**15,403**	**18**
	2021	**25,470**	**854**	**3,662**	**5,132**	**15,821**	**18**
Algeria	2018	1,757	189	284	637	647	42
	2019	1,805	169	307	638	690	42
	2020	1,659	148	306	568	638	38
	2021	1,754	146	342	609	656	40
Angola	2018	*421	3	40	*102	*276	*13
	2019	*430	*5	*43	*105	*277	*13
	2020	*406	3	*55	*65	*282	*12
	2021	*442	4	*51	100	*288	*13
Benin	2018	158	..	3	67	87	13
	2019	154	0	7	57	90	13
	2020	158	0	8	58	92	13
	2021	165	4	7	59	94	13
Botswana	2018	62	1	12	34	15	25
	2019	60	1	11	33	15	24
	2020	56	1	11	30	15	22
	2021	56	1	11	30	15	22
Burkina Faso	2018	206	0	6	*42	158	10
	2019	216	0	14	*39	163	10
	2020	*218	0	*14	38	*166	*10
	2021	*230	0	*15	44	*171	*10
Burundi	2018	*58	0	*1	8	*49	*5
	2019	*58	0	*1	8	*49	*5
	2020	*60	*1	*1	9	*49	*5
	2021	*59	0	*1	*9	*49	*5
Cabo Verde	2018	*8	0	0	*4	*4	*13
	2019	*8	0	0	*4	*4	*14
	2020	*7	0	0	*3	*3	*11
	2021	*7	0	0	*3	*4	*12
Cameroon	2018	*328	3	18	46	*262	*13
	2019	*337	3	18	47	*268	*13
	2020	*344	3	18	47	*276	*13
	2021	*352	3	17	49	*282	*13
Central African Rep.	2018	*36	0	0	*3	*33	*7
	2019	*37	0	0	*3	*33	*7
	2020	*37	0	0	*3	*34	*7
	2021	*38	0	0	*3	*34	*7
Chad	2018	*84	0	*1	20	*63	*5
	2019	*86	0	*2	20	*64	*5
	2020	*88	0	*1	22	*65	*5
	2021	*91	0	*2	24	*66	*5
Comoros	2018	*7	..	*1	*2	*4	*9
	2019	*7	..	*1	*2	*4	*9
	2020	*8	..	*1	*3	*4	*10
	2021	*10	..	*1	*5	*5	*12

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	2018	*81	1	3	17	*59	*15
	2019	*82	1	3	17	*60	*15
	2020	*81	1	3	16	*61	*14
	2021	*83	1	3	17	*62	*14
Côte d'Ivoire	2018	281	4	22	55	200	11
	2019	302	2	28	58	214	12
	2020	316	2	29	57	228	12
	2021	381	2	24	85	270	14
Dem. Rep. of the Congo	2018	*941	0	*36	*41	*864	*11
	2019	*968	0	*38	*45	*885	*11
	2020	*1,013	0	*42	*47	*924	*11
	2021	*1,041	0	*43	*45	*953	*11
Djibouti	2018	*9	0	0	*2	*6	*9
	2019	*10	0	*1	*2	*6	*9
	2020	*8	0	*1	*2	*5	*8
	2021	*9	0	*1	*2	*5	*8
Egypt	2018	2,768	113	934	527	1,195	27
	2019	2,539	296	736	736	770	24
	2020	2,386	301	607	704	774	22
	2021	2,493	331	628	751	783	23
Equatorial Guinea	2018	*107	0	*90	8	*8	*71
	2019	*79	0	*61	9	*9	*51
	2020	*89	0	*72	7	*9	*56
	2021	*110	0	*94	7	*9	*67
Eritrea	2018	26	0	0	3	22	7
	2019	26	0	0	3	22	7
	2020	26	0	0	3	23	7
	2021	27	0	1	3	23	7
Eswatini	2018	*40	0	*17	8	*15	*35
	2019	*41	0	*15	9	*17	*35
	2020	*40	0	*15	*9	*16	*34
	2021	*37	0	*14	*8	*16	*31
Ethiopia	2018	*1,702	4	61	92	*1,544	*15
	2019	*1,758	4	69	103	*1,583	*15
	2020	*1,772	4	60	94	*1,614	*15
	2021	*1,820	4	62	98	*1,656	*15
Gabon	2018	*75	0	*22	3	*50	*34
	2019	*76	0	*22	3	*51	*34
	2020	*74	1	*21	2	*50	*32
	2021	*74	1	*21	3	*50	*32
Gambia	2018	*11	..	*2	*1	*8	*4
	2019	*11	..	*2	*1	*8	*4
	2020	*11	..	*2	*1	*8	*4
	2021	*11	..	*2	*1	*8	*4
Ghana	2018	320	*4	46	118	152	10
	2019	331	*4	48	127	152	10
	2020	352	*3	51	139	159	11
	2021	390	*3	62	151	174	12
Guinea	2018	*148	*2	*19	*20	*107	*12
	2019	*159	*2	*22	*28	*107	*12
	2020	*166	*3	*23	*32	*108	*13
	2021	*170	*3	*25	*33	*109	*13

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	2018	*29	*1	0	*2	*27	*15
	2019	*29	*1	0	*2	*27	*15
	2020	*29	0	0	*1	*27	*14
	2021	*29	0	0	*1	*27	*14
Kenya	2018	*614	3	75	128	*408	*12
	2019	*623	3	56	147	*417	*12
	2020	*623	4	55	142	*422	*12
	2021	*675	4	68	149	*453	*13
Lesotho	2018	*46	0	*19	7	*20	*21
	2019	*46	0	*19	7	*19	*21
	2020	*43	0	*17	6	*20	*19
	2021	*55	0	*29	6	*20	*24
Liberia	2018	*81	0	0	*3	*77	*17
	2019	*88	0	0	8	*80	*18
	2020	*88	0	0	5	*82	*17
	2021	*90	0	0	5	*85	*17
Libya	2018	384	16	45	235	88	59
	2019	380	14	38	240	88	58
	2020	350	5	22	235	88	53
	2021	370	11	32	238	89	55
Madagascar	2018	252	*3	30	*18	200	9
	2019	266	*2	32	*21	210	10
	2020	*271	*2	*32	*19	*219	*10
	2021	*289	*2	*33	*22	*232	*10
Malawi	2018	*68	0	*10	*15	*43	*4
	2019	*72	0	*10	*18	*43	*4
	2020	*72	0	*10	*18	*44	*4
	2021	*73	0	*9	*20	*44	*4
Mali	2018	210	..	*4	39	167	11
	2019	224	..	*4	*47	173	11
	2020	240	..	*4	*55	180	11
	2021	*246	..	*4	*60	*182	*11
Mauritania	2018	*71	*2	15	*22	*32	*17
	2019	*74	*3	15	*23	*33	*17
	2020	*76	*2	18	*24	*33	*17
	2021	*73	*1	16	*27	*28	*16
Mauritius	2018	43	1	9	23	10	33
	2019	44	1	9	23	11	34
	2020	35	0	8	17	10	27
	2021	34	0	8	16	10	26
Morocco	2018	690	19	141	247	283	19
	2019	712	23	139	258	293	19
	2020	667	22	126	225	293	18
	2021	719	23	141	253	303	19
Mozambique	2018	*322	7	59	44	*212	*11
	2019	*334	8	60	49	*218	*11
	2020	*328	7	56	45	*220	*11
	2021	*349	9	58	57	*226	*11
Namibia	2018	75	1	8	*28	38	31
	2019	74	1	8	*28	38	30
	2020	69	1	7	*25	36	28
	2021	69	1	6	*26	36	27

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	2018	*82	..	*3	*10	*69	*4
	2019	*90	..	*3	*15	*72	*4
	2020	*95	..	3	16	*76	*4
	2021	*94	..	*4	*15	*76	*4
Nigeria	2018	*5,670	61	376	774	*4,460	*29
	2019	*5,811	58	380	827	*4,545	*29
	2020	*5,779	58	371	711	*4,639	*28
	2021	*5,994	70	395	805	*4,724	*28
Rwanda	2018	*85	0	*7	*10	*68	*7
	2019	*86	0	*7	*10	*69	*7
	2020	*87	0	*7	*9	*70	*7
	2021	*90	0	*7	*11	*71	*7
Sao Tome and Principe	2018	*2	0	0	*1	*1	*9
	2019	*2	0	0	1	*1	*9
	2020	*2	0	0	*1	*1	*9
	2021	*2	0	0	*1	*1	*9
Senegal	2018	123	..	*24	36	63	8
	2019	129	..	*34	41	55	8
	2020	124	..	26	39	60	8
	2021	135	0	26	45	64	8
Seychelles	2018	*5	0	*1	*3	*2	*51
	2019	*5	0	*1	*2	*2	*48
	2020	*5	0	*1	*2	*2	*48
	2021	*5	0	*1	*3	*2	*50
Sierra Leone	2018	*57	0	*2	9	*46	*7
	2019	*58	0	*1	9	*47	*7
	2020	*58	0	*1	10	*48	*7
	2021	*62	0	*1	11	*49	*7
Somalia	2018	*116	..	*2	*2	*112	*8
	2019	*118	..	*2	*2	*115	*7
	2020	*120	..	*2	*2	*117	*7
	2021	*123	..	*2	*2	*120	*7
South Africa	2018	2,806	195	935	781	895	49
	2019	2,730	179	909	791	851	47
	2020	2,419	181	909	627	701	41
	2021	2,518	192	929	682	714	42
South Sudan	2018	24	..	1	13	10	2
	2019	25	..	1	13	10	2
	2020	24	..	1	12	10	2
	2021	25	..	1	13	11	2
St. Helena and Depend.	2018	0	..	..	0	0	*27
	2019	0	..	..	0	0	27
	2020	0	..	..	0	0	*21
	2021	0	..	..	0	0	*23
Sudan	2018	437	*23	40	*150	224	10
	2019	*505	*51	*37	*175	*242	*12
	2020	415	*15	*44	*143	213	9
	2021	*422	*21	*43	*145	*213	*9
Togo	2018	90	..	5	14	71	11
	2019	90	0	5	11	74	11
	2020	94	0	4	12	78	11
	2021	*99	0	5	17	*76	*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	2018	353	12	91	107	142	30
	2019	347	9	88	103	146	29
	2020	326	7	79	100	141	27
	2021	354	8	87	113	146	29
Uganda	2018	760	*1	111	47	601	18
	2019	790	*1	116	50	624	18
	2020	864	1	125	48	690	19
	2021	869	*1	92	52	723	19
United Rep. of Tanzania	2018	842	2	92	103	645	15
	2019	899	3	104	110	683	15
	2020	907	3	101	111	692	15
	2021	947	3	111	131	703	15
Zambia	2018	336	3	86	*26	222	19
	2019	342	3	79	29	231	19
	2020	352	3	83	35	232	19
	2021	*372	3	87	*43	*239	*19
Zimbabwe	2018	*425	1	38	38	*348	*28
	2019	*423	1	39	32	*351	*28
	2020	*416	1	35	23	*357	*27
	2021	*440	0	41	24	*375	*28
Asia	**2018**	**191,127**	**22,279**	**76,391**	**32,359**	**60,099**	**42**
	2019	**194,984**	**23,082**	**77,820**	**32,473**	**61,610**	**42**
	2020	**194,890**	**25,086**	**77,760**	**30,368**	**61,677**	**42**
	2021	**201,990**	**26,086**	**79,907**	**32,072**	**63,924**	**43**
Afghanistan	2018	*173	*5	*45	61	*62	*5
	2019	*177	*5	*45	62	*64	*5
	2020	*186	*5	*47	70	*64	*5
	2021	*170	*4	*40	*65	*61	*4
Armenia	2018	96	2	13	30	51	34
	2019	108	*2	13	34	59	38
	2020	115	3	14	36	63	41
	2021	122	3	16	38	66	44
Azerbaijan	2018	401	52	42	122	186	39
	2019	457	73	60	121	203	45
	2020	452	74	60	98	220	44
	2021	484	82	62	110	229	47
Bahrain	2018	274	73	92	55	56	185
	2019	290	76	98	53	63	194
	2020	278	74	102	48	54	188
	2021	292	80	106	51	56	200
Bangladesh	2018	*1,485	50	376	175	*885	*9
	2019	*1,527	66	392	170	*898	*9
	2020	*1,457	62	378	150	*867	*9
	2021	*1,560	75	430	168	*887	*9
Bhutan	2018	*75	*1	*14	7	*53	*99
	2019	*74	*1	12	7	*54	*97
	2020	*70	*1	*10	*5	*54	*90
	2021	*75	0	*14	*5	*55	*97
Brunei Darussalam	2018	65	26	6	19	14	150
	2019	66	25	8	18	14	150
	2020	63	22	10	17	14	143
	2021	58	18	10	16	14	131

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	2018	173	0	28	*74	71	11
	2019	203	1	38	*89	76	13
	2020	206	1	32	94	79	13
	2021	209	1	33	96	79	13
China	2018	81,598	8,531	39,724	10,949	22,394	58
	2019	83,021	9,281	40,120	10,888	22,731	58
	2020	86,168	11,076	41,296	*10,561	23,235	60
	2021	90,560	11,685	42,888	*11,345	24,641	64
China, Hong Kong SAR	2018	336	2	*32	*94	209	45
	2019	340	1	*32	*96	211	45
	2020	330	1	*31	*93	205	44
	2021	320	*2	*28	*82	208	43
China, Macao SAR	2018	34	2	2	6	23	52
	2019	33	2	2	6	23	50
	2020	31	*2	2	5	22	46
	2021	33	*2	2	5	23	48
Cyprus	2018	66	2	10	29	26	54
	2019	68	2	10	29	27	55
	2020	64	2	10	26	26	51
	2021	66	2	10	28	26	53
Georgia	2018	186	11	37	57	81	49
	2019	194	14	35	59	85	51
	2020	189	13	33	56	86	50
	2021	205	12	35	63	96	55
India	2018	28,091	1,420	12,994	2,481	11,196	21
	2019	28,465	*1,567	13,195	2,180	11,523	21
	2020	27,260	*2,082	12,243	1,911	11,024	20
	2021	28,129	1,883	12,784	1,979	*11,484	20
Indonesia	2018	6,599	434	*2,551	1,195	2,420	25
	2019	6,953	497	2,820	1,093	2,543	26
	2020	6,419	425	2,468	1,024	2,502	24
	2021	6,211	390	2,226	1,177	2,419	23
Iran (Islamic Rep. of)	2018	8,164	1,249	1,912	2,010	2,992	95
	2019	8,954	1,180	2,194	2,096	3,484	103
	2020	9,107	1,262	2,354	1,878	3,613	104
	2021	9,420	1,314	2,419	1,960	3,726	107
Iraq	2018	969	23	231	450	265	24
	2019	1,055	30	273	478	274	25
	2020	979	32	266	398	283	23
	2021	1,082	36	266	467	314	25
Israel	2018	648	79	120	250	199	77
	2019	664	73	127	252	213	77
	2020	630	76	114	226	213	72
	2021	634	71	108	241	214	71
Japan	2018	12,013	1,440	3,531	2,957	4,085	95
	2019	11,767	1,426	3,399	2,896	4,046	94
	2020	11,089	1,263	3,202	2,629	3,994	89
	2021	11,237	1,287	3,362	2,656	3,932	90
Jordan	2018	279	8	31	136	105	27
	2019	275	8	30	*132	105	26
	2020	242	6	29	100	106	22
	2021	253	4	31	114	105	23

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	2018	1,748	*50	638	265	795	94
	2019	1,573	*54	540	249	730	84
	2020	1,735	*66	514	317	837	91
	2021	1,817	33	553	339	892	95
Korea, Dem.Ppl's.Rep.	2018	609	7	372	57	173	24
	2019	674	8	416	62	189	26
	2020	653	8	401	60	183	25
	2021	553	6	335	52	160	21
Korea, Republic of	2018	7,701	2,176	2,086	1,475	1,964	149
	2019	7,678	2,254	1,985	1,538	1,901	148
	2020	7,380	2,119	1,928	1,436	1,897	142
	2021	7,678	2,272	2,003	1,496	1,908	148
Kuwait	2018	733	128	212	222	171	170
	2019	744	129	220	224	171	168
	2020	703	128	225	181	169	161
	2021	786	119	260	224	184	185
Kyrgyzstan	2018	176	*9	21	48	98	28
	2019	144	*2	17	38	88	23
	2020	135	*2	11	37	86	21
	2021	147	2	14	41	90	22
Lao People's Dem. Rep.	2018	*126	0	*18	43	*65	*18
	2019	131	0	22	*44	64	18
	2020	*135	0	*26	*43	*66	*18
	2021	*133	0	*25	*43	*65	*18
Lebanon	2018	*224	4	*33	*90	*97	*38
	2019	*224	2	*31	*95	97	*39
	2020	203	*2	26	*90	85	36
	2021	*161	*1	*22	*72	*66	*29
Malaysia	2018	2,555	528	765	871	391	79
	2019	2,701	583	771	934	413	82
	2020	2,349	523	714	733	379	71
	2021	2,358	458	772	722	406	70
Maldives	2018	*18	0	*1	*14	*3	*38
	2019	*21	0	*1	*16	*4	*41
	2020	*17	0	*1	*13	*3	*33
	2021	*21	0	*1	*16	*4	*41
Mongolia	2018	419	0	29	21	368	132
	2019	446	0	32	26	387	138
	2020	416	0	32	28	356	126
	2021	325	0	35	27	263	97
Myanmar	2018	761	11	235	118	397	14
	2019	771	21	246	90	415	15
	2020	727	3	194	188	342	14
	2021	660	..	168	*149	343	12
Nepal	2018	582	5	97	52	428	20
	2019	567	8	92	32	435	20
	2020	624	6	118	51	448	21
	2021	638	4	114	57	463	21
Oman	2018	984	157	254	170	403	214
	2019	1,000	151	258	168	423	217
	2020	925	153	237	141	395	204
	2021	999	188	248	134	429	221

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	2018	3,179	1,035	1,055	566	523	134
	2019	3,073	946	1,034	570	523	129
	2020	3,105	957	1,038	574	535	130
	2021	3,267	1,054	1,130	544	538	137
Pakistan	2018	3,107	211	*945	741	1,209	14
	2019	3,004	203	*863	707	1,230	13
	2020	3,259	202	*1,100	747	1,210	14
	2021	3,440	206	1,148	815	1,270	15
Philippines	2018	1,518	60	314	536	609	14
	2019	1,543	48	305	556	634	14
	2020	1,385	56	266	431	632	12
	2021	1,494	70	285	480	659	13
Qatar	2018	800	200	324	162	*114	289
	2019	854	201	365	168	*120	304
	2020	902	285	330	162	124	327
	2021	914	284	332	168	130	340
Saudi Arabia	2018	7,396	2,351	1,700	1,483	*1,862	211
	2019	7,734	2,276	*1,688	1,949	*1,822	216
	2020	7,285	2,243	*1,632	1,629	*1,781	202
	2021	7,558	2,274	*1,560	1,795	*1,929	210
Singapore	2018	799	320	280	95	104	137
	2019	770	286	282	94	108	131
	2020	742	261	279	95	107	126
	2021	784	280	296	95	113	132
Sri Lanka	2018	357	1	96	135	125	17
	2019	361	1	94	138	128	17
	2020	347	1	97	120	129	16
	2021	*370	3	*101	138	*128	*17
State of Palestine	2018	66	2	4	30	31	14
	2019	70	1	4	30	35	14
	2020	72	1	3	31	37	14
	2021	77	1	3	35	37	15
Syrian Arab Republic	2018	263	28	59	91	86	14
	2019	237	26	54	79	79	12
	2020	218	25	49	72	72	10
	2021	211	25	48	67	71	10
Tajikistan	2018	166	1	25	17	123	18
	2019	173	1	29	19	125	19
	2020	185	1	28	24	133	19
	2021	181	1	34	26	121	19
Thailand	2018	4,211	1,018	1,237	1,156	800	59
	2019	4,299	976	1,315	1,188	820	60
	2020	4,138	909	1,198	1,233	799	58
	2021	4,270	1,231	1,133	1,146	759	60
Timor-Leste	2018	7	0	..	4	2	5
	2019	7	1	..	4	2	5
	2020	7	0	..	4	2	5
	2021	6	0	..	4	2	5
Türkiye	2018	4,243	197	1,318	1,187	1,541	51
	2019	4,301	223	1,234	1,190	1,654	52
	2020	4,413	273	1,313	1,119	1,709	52
	2021	4,705	237	1,461	1,267	1,740	55

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	2018	660	..	28	187	445	109
	2019	665	..	28	184	453	108
	2020	668	..	28	183	457	107
	2021	668	..	28	183	457	105
United Arab Emirates	2018	2,227	246	*1,050	529	403	244
	2019	2,363	259	1,197	502	405	257
	2020	2,387	261	1,324	430	371	257
	2021	2,391	229	1,250	508	404	255
Uzbekistan	2018	1,174	*14	253	226	681	36
	2019	1,201	*18	280	234	670	36
	2020	1,363	41	266	243	813	41
	2021	1,446	*31	*299	268	848	42
Viet Nam	2018	2,478	109	1,134	569	666	26
	2019	2,852	76	1,497	540	739	30
	2020	2,979	80	1,665	489	745	31
	2021	2,711	124	1,364	459	764	28
Yemen	2018	111	1	16	43	51	4
	2019	111	1	16	43	51	4
	2020	100	0	14	38	48	3
	2021	99	0	14	38	48	3
Europe	**2018**	**75,731**	**8,128**	**18,151**	**19,550**	**29,901**	**101**
	2019	**76,082**	**7,999**	**18,989**	**19,618**	**29,475**	**102**
	2020	**72,508**	**8,192**	**18,457**	**17,158**	**28,702**	**97**
	2021	**77,108**	**8,463**	**19,463**	**18,670**	**30,512**	**103**
Albania	2018	82	2	13	30	36	28
	2019	81	2	13	30	36	28
	2020	75	1	16	22	36	26
	2021	86	2	18	29	37	30
Andorra	2018	9	0	0	5	4	120
	2019	9	0	0	5	4	116
	2020	7	0	0	3	4	91
	2021	8	0	0	4	4	96
Austria	2018	1,164	75	317	381	391	132
	2019	1,183	86	318	381	398	133
	2020	1,121	84	304	333	400	126
	2021	1,185	86	319	344	436	133
Belarus	2018	830	124	178	175	353	86
	2019	799	112	177	173	336	83
	2020	781	118	173	156	333	81
	2021	812	119	183	153	357	85
Belgium	2018	1,747	329	470	380	568	153
	2019	1,696	305	454	377	560	147
	2020	1,604	295	434	327	548	139
	2021	1,713	313	457	362	581	148
Bosnia and Herzegovina	2018	181	4	36	52	89	53
	2019	180	5	31	56	89	54
	2020	173	4	25	50	93	52
	2021	185	4	30	58	93	56
Bulgaria	2018	429	21	114	145	149	60
	2019	425	19	112	147	147	60
	2020	416	20	111	138	148	60
	2021	445	22	118	148	158	65

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	2018	301	21	49	90	141	72
	2019	307	25	49	94	138	74
	2020	293	23	49	83	137	71
	2021	307	18	50	91	148	76
Czechia	2018	1,126	120	279	283	444	107
	2019	1,129	121	276	288	444	107
	2020	1,084	98	274	271	441	103
	2021	1,166	116	292	288	470	111
Denmark	2018	582	10	95	184	293	101
	2019	568	8	93	181	286	98
	2020	548	9	94	169	276	94
	2021	574	9	100	172	292	98
Estonia	2018	128	5	21	35	66	96
	2019	125	5	20	36	64	94
	2020	123	7	18	34	64	93
	2021	124	7	16	36	66	93
Faeroe Islands	2018	10	0	1	1	7	189
	2019	9	0	1	2	7	183
	2020	10	0	1	2	7	185
	2021	10	0	1	2	7	190
Finland	2018	1,091	58	468	181	384	198
	2019	1,083	59	465	178	380	196
	2020	1,021	63	434	166	358	185
	2021	1,074	57	456	172	390	194
France	2018	6,385	566	1,172	1,933	2,714	96
	2019	6,330	574	1,142	1,934	2,680	95
	2020	5,820	536	1,071	1,633	2,580	87
	2021	6,383	567	1,218	1,833	2,765	95
Germany	2018	9,390	927	2,409	2,394	3,659	113
	2019	9,356	924	2,328	2,425	3,679	113
	2020	9,064	911	2,294	2,204	3,655	109
	2021	9,458	1,094	2,348	2,255	3,762	113
Gibraltar	2018	9	1	..	7	1	283
	2019	10	1	..	8	1	302
	2020	9	1	..	7	1	281
	2021	9	1	..	7	1	283
Greece	2018	663	38	115	250	260	62
	2019	674	39	109	257	269	64
	2020	630	35	106	220	270	60
	2021	643	31	108	237	268	62
Guernsey	2018	1	..	..	..	1	20
	2019	1	..	..	..	1	20
	2020	1	..	..	..	1	19
	2021	1	..	..	..	1	19
Hungary	2018	846	97	187	204	359	87
	2019	848	92	188	215	352	87
	2020	839	97	186	191	364	86
	2021	899	106	200	209	384	93
Iceland	2018	136	7	58	16	56	387
	2019	133	6	55	15	57	368
	2020	127	6	54	13	54	346
	2021	131	6	56	14	56	354

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	2018	479	10	94	172	202	99
	2019	479	11	94	173	201	98
	2020	460	10	91	146	212	93
	2021	474	17	92	156	209	95
Isle of Man	2018	2	..	0	..	2	27
	2019	2	..	1	..	2	28
	2020	2	..	0	..	2	27
	2021	2	..	0	..	2	26
Italy	2018	5,008	300	1,038	1,512	2,158	84
	2019	4,959	296	1,049	1,524	2,089	83
	2020	4,525	287	1,004	1,233	2,002	76
	2021	4,962	248	1,215	1,489	2,011	84
Jersey	2018	6	..	*1	2	3	58
	2019	6	..	*1	2	3	56
	2020	5	..	*1	2	3	50
	2021	6	..	*1	2	3	52
Kosovo	2018	64	2	12	18	32	37
	2019	66	2	13	18	33	39
	2020	67	2	13	18	34	40
	2021	73	3	14	20	37	44
Latvia	2018	174	4	38	47	85	90
	2019	169	4	36	47	83	88
	2020	164	4	36	45	79	87
	2021	173	5	37	46	84	92
Liechtenstein	2018	3	..	..	..	3	80
	2019	3	..	..	..	3	79
	2020	3	..	..	..	3	77
	2021	3	..	..	..	3	81
Lithuania	2018	276	47	46	88	94	96
	2019	279	50	47	91	91	98
	2020	269	48	43	90	88	95
	2021	278	43	46	91	98	100
Luxembourg	2018	160	2	27	90	41	264
	2019	163	2	26	93	42	263
	2020	140	1	24	72	43	222
	2021	148	1	25	76	45	231
Malta	2018	22	0	2	10	9	44
	2019	23	1	2	10	10	46
	2020	21	0	2	9	9	40
	2021	22	1	3	9	10	42
Montenegro	2018	32	2	6	11	14	51
	2019	34	2	6	11	15	53
	2020	30	1	6	10	14	48
	2021	34	1	5	12	15	54
Netherlands (Kingd. of the)	2018	2,433	540	584	454	856	141
	2019	2,370	508	569	454	838	136
	2020	2,303	545	564	388	807	132
	2021	2,360	542	565	395	858	135
North Macedonia	2018	85	2	17	33	33	40
	2019	87	2	17	33	34	41
	2020	81	2	18	28	34	39
	2021	87	2	19	32	35	42

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	2018	908	105	260	217	326	171
	2019	907	107	261	219	320	170
	2020	886	102	265	204	314	165
	2021	913	98	280	213	322	169
Poland	2018	3,302	242	688	953	1,418	86
	2019	3,260	239	695	973	1,353	85
	2020	3,193	248	675	930	1,340	83
	2021	3,331	225	686	1,005	1,415	87
Portugal	2018	683	31	191	247	214	66
	2019	709	49	193	253	213	69
	2020	658	50	186	212	209	64
	2021	685	53	190	231	211	67
Republic of Moldova	2018	115	3	10	30	72	37
	2019	110	2	10	30	68	35
	2020	107	3	9	28	66	35
	2021	116	3	10	31	72	38
Romania	2018	1,017	45	260	271	440	52
	2019	1,034	51	262	283	438	53
	2020	1,032	58	253	278	442	53
	2021	1,100	54	267	297	483	57
Russian Federation	2018	21,464	3,539	5,487	4,254	8,184	147
	2019	22,293	3,459	6,518	4,177	8,139	153
	2020	21,650	3,669	6,410	3,810	7,761	149
	2021	23,268	3,815	6,719	4,117	8,617	160
Serbia	2018	380	31	97	90	162	51
	2019	377	29	89	97	161	51
	2020	392	30	83	92	187	53
	2021	418	30	88	105	194	57
Slovakia	2018	476	53	158	118	147	87
	2019	477	42	149	120	166	88
	2020	459	51	136	108	165	84
	2021	498	54	146	112	186	91
Slovenia	2018	214	7	55	84	68	101
	2019	210	7	55	82	66	100
	2020	192	6	52	68	65	91
	2021	205	7	54	77	68	97
Spain	2018	3,625	218	863	1,374	1,170	77
	2019	3,619	224	863	1,391	1,142	77
	2020	3,249	243	789	1,105	1,113	69
	2021	3,490	226	840	1,281	1,143	73
Sweden	2018	1,374	91	467	303	513	135
	2019	1,363	96	464	299	504	133
	2020	1,321	72	472	283	494	127
	2021	1,386	89	472	292	533	132
Switzerland	2018	764	19	144	243	358	90
	2019	763	18	143	243	360	89
	2020	724	18	138	224	344	84
	2021	764	17	146	226	375	88
Ukraine	2018	2,195	111	699	415	970	49
	2019	2,111	115	682	433	880	48
	2020	2,012	154	675	338	845	46
	2021	2,062	154	666	396	846	47

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	2018	5,357	320	919	1,766	2,352	81
	2019	5,263	301	911	1,758	2,293	79
	2020	4,813	274	865	1,416	2,259	72
	2021	5,038	222	905	1,546	2,364	75
Latin America & Carib.	**2018**	**25,356**	**1,415**	**7,377**	**9,634**	**6,930**	**40**
	2019	**25,342**	**1,474**	**7,226**	**9,753**	**6,888**	**39**
	2020	**23,383**	**1,270**	**7,050**	**8,168**	**6,896**	**36**
	2021	**24,607**	**1,342**	**7,230**	**8,886**	**7,149**	**38**
Anguilla	2018	*1	..	..	*1	*1	*87
	2019	*1	..	..	*1	*1	*91
	2020	*1	..	..	*1	*1	*84
	2021	*1	..	..	*1	*1	*86
Antigua and Barbuda	2018	*6	0	0	*3	*2	*63
	2019	*6	0	0	*3	*3	*66
	2020	*6	0	0	*3	*3	*64
	2021	*6	0	0	*3	*3	*66
Argentina	2018	2,346	130	529	800	888	53
	2019	2,327	132	539	794	862	52
	2020	2,184	122	516	712	835	48
	2021	2,335	122	510	740	963	52
Aruba	2018	*7	0	..	*3	3	*63
	2019	7	0	..	*3	3	61
	2020	6	0	..	*3	3	56
	2021	6	0	..	*3	3	61
Bahamas	2018	*26	0	5	*11	*10	*65
	2019	*27	0	*5	*11	*11	*67
	2020	*20	0	*4	*7	*9	*50
	2021	*27	0	*6	*11	*10	*65
Barbados	2018	14	..	*4	6	4	51
	2019	15	..	*5	6	4	54
	2020	13	..	*5	5	4	47
	2021	12	..	*4	4	4	44
Belize	2018	13	0	3	6	4	34
	2019	14	0	3	7	4	36
	2020	12	0	2	6	3	30
	2021	12	0	1	6	4	29
Bolivia (Plur. State of)	2018	306	12	74	154	65	26
	2019	307	12	71	157	66	26
	2020	258	2	65	127	64	22
	2021	303	6	64	162	70	25
Bonaire, St Eustatius, Saba	2018	*1	0	0	0	0	*40
	2019	*1	0	0	0	0	*40
	2020	*1	0	0	0	0	*38
	2021	*1	0	0	0	0	*38
Brazil	2018	9,736	560	3,280	3,687	2,209	46
	2019	9,823	564	3,202	3,808	2,250	46
	2020	9,599	485	3,298	3,564	2,252	45
	2021	10,287	526	3,595	3,894	2,271	48
British Virgin Islands	2018	*1	..	0	*1	1	*45
	2019	*2	..	0	*1	1	*49
	2020	*1	..	0	*1	*1	*47
	2021	*1	..	0	*1	*1	*48

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	
Cayman Islands	2018	5	0	1	3	1	85
	2019	6	0	1	3	2	91
	2020	5	0	1	3	2	81
	2021	5	0	1	3	2	81
Chile	2018	1,172	31	442	393	306	63
	2019	1,180	36	441	400	304	62
	2020	1,125	42	430	354	299	58
	2021	1,146	38	413	387	308	59
Colombia	2018	1,303	41	307	570	385	26
	2019	1,230	81	264	491	394	25
	2020	1,139	42	249	423	426	22
	2021	1,283	47	283	534	419	25
Costa Rica	2018	159	5	35	82	37	32
	2019	161	5	34	83	39	32
	2020	146	4	34	69	39	28
	2021	159	3	36	79	41	31
Cuba	2018	247	7	134	24	82	22
	2019	241	4	132	23	82	21
	2020	191	4	94	*18	75	17
	2021	169	3	77	*19	70	15
Curaçao	2018	35	5	7	18	4	188
	2019	34	5	7	17	4	175
	2020	28	4	6	14	4	148
	2021	30	4	6	15	4	156
Dominica	2018	*2	0	0	*1	*1	*26
	2019	*2	0	0	*1	*1	*24
	2020	*1	0	0	*1	*1	*21
	2021	*2	0	0	*1	*1	*21
Dominican Republic	2018	263	14	61	103	84	24
	2019	291	17	76	109	89	27
	2020	270	11	80	98	81	25
	2021	307	13	89	114	92	28
Ecuador	2018	495	..	88	251	156	29
	2019	500	..	87	255	158	29
	2020	441	..	84	208	149	25
	2021	490	..	89	251	150	28
El Salvador	2018	104	1	24	50	30	17
	2019	115	1	27	54	33	18
	2020	100	1	23	47	30	16
	2021	115	1	26	57	31	18
Falkland Is. (Malvinas)	2018	0	..	0	0	0	130
	2019	0	..	0	0	0	133
	2020	0	..	0	0	0	130
	2021	0	..	0	0	0	*126
Grenada	2018	3	..	0	1	2	27
	2019	4	..	0	2	2	29
	2020	3	..	0	1	2	25
	2021	3	..	0	1	2	26
Guatemala	2018	*530	3	39	119	*368	*31
	2019	*561	4	50	132	*376	*33
	2020	*559	2	49	121	*387	*32
	2021	605	2	55	144	404	34

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	
Guyana	2018	29	0	6	11	12	37
	2019	31	*1	5	12	13	39
	2020	30	*1	5	12	12	38
	2021	*31	*1	5	*12	*13	*39
Haiti	2018	141	1	12	20	108	13
	2019	143	0	13	20	110	13
	2020	139	2	12	20	106	12
	2021	138	1	12	19	106	12
Honduras	2018	172	0	30	64	78	18
	2019	180	1	31	68	80	18
	2020	160	0	25	56	80	16
	2021	183	1	26	74	83	18
Jamaica	2018	96	0	45	35	16	34
	2019	104	*1	36	49	18	37
	2020	77	*1	23	35	18	27
	2021	80	0	20	42	18	28
Mexico	2018	4,892	185	1,414	2,086	1,207	39
	2019	4,870	171	1,407	2,125	1,167	39
	2020	4,260	177	1,409	1,523	1,152	34
	2021	4,119	164	1,284	1,500	1,170	33
Montserrat	2018	0	0	0	0	0	*63
	2019	0	0	0	0	0	*50
	2020	0	0	0	0	0	*47
	2021	0	0	0	0	0	*50
Nicaragua	2018	109	1	15	31	63	17
	2019	109	2	14	30	63	16
	2020	108	1	13	30	64	16
	2021	114	1	14	34	65	17
Panama	2018	137	..	26	65	46	33
	2019	145	..	30	61	54	34
	2020	119	..	21	44	54	28
	2021	144	..	25	62	58	33
Paraguay	2018	283	2	69	120	91	44
	2019	280	2	68	118	91	43
	2020	267	2	67	106	92	40
	2021	278	3	69	118	88	41
Peru	2018	805	12	232	357	204	25
	2019	837	12	243	374	207	25
	2020	705	5	200	293	207	21
	2021	770	5	219	322	222	23
Puerto Rico	2018	59	..	8	..	51	18
	2019	58	..	7	..	51	18
	2020	58	..	7	..	51	18
	2021	59	..	7	..	52	18
Sint Maarten (Dutch part)	2018	*9	*1	*2	*5	*1	*216
	2019	*9	*1	*2	*5	*1	*213
	2020	*9	*1	*2	*5	*1	*204
	2021	*9	*1	*2	*5	*1	*209
St. Kitts-Nevis	2018	*2	0	0	*1	*1	*41
	2019	*2	0	0	*1	*1	*42
	2020	*2	0	0	*1	*1	*39
	2021	*2	0	0	*1	*1	*39

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	
St. Lucia	2018	6	0	0	3	2	31
	2019	6	0	0	3	2	31
	2020	*5	0	0	*3	2	*30
	2021	*6	0	0	*3	2	*32
St. Vincent-Grenadines	2018	*3	0	0	*2	1	*27
	2019	*3	0	0	*2	1	*24
	2020	*3	0	0	*2	1	*26
	2021	*3	0	0	*2	1	*26
Suriname	2018	25	0	3	9	13	41
	2019	*29	0	3	9	*16	*47
	2020	*28	0	3	8	*17	*46
	2021	*28	0	3	8	*16	*46
Trinidad and Tobago	2018	489	385	51	35	18	325
	2019	516	407	53	39	18	340
	2020	449	350	47	32	19	296
	2021	489	388	51	31	19	320
Turks and Caicos Islands	2018	*3	0	..	*2	1	*79
	2019	*3	0	..	*2	*1	*76
	2020	*3	0	..	*2	*1	*72
	2021	*3	0	..	*2	*1	*73
United States Virgin Is.	2018	*2	..	*1	..	*1	*20
	2019	*2	..	*1	..	*1	*21
	2020	*2	..	*1	..	*1	*22
	2021	*2	..	*1	..	*1	*23
Uruguay	2018	203	5	86	52	59	59
	2019	204	5	86	56	57	59
	2020	200	4	86	53	58	58
	2021	209	4	89	58	58	61
Venezuela (Bolivar. Rep.)	2018	1,116	11	343	450	312	37
	2019	957	9	*283	420	244	33
	2020	642	5	186	159	292	23
	2021	632	4	146	162	320	22
Northern America	**2018**	**75,453**	**7,001**	**13,516**	**29,823**	**25,114**	**204**
	2019	**75,293**	**7,456**	**13,210**	**29,750**	**24,877**	**202**
	2020	**69,171**	**6,741**	**12,909**	**25,592**	**23,929**	**185**
	2021	**72,925**	**7,255**	**13,567**	**28,184**	**23,919**	**194**
Bermuda	2018	*6	0	0	*2	*4	*91
	2019	5	0	0	*1	4	83
	2020	4	0	0	*1	3	63
	2021	4	0	0	*2	3	64
Canada	2018	8,493	854	1,990	2,726	2,923	229
	2019	8,507	955	1,980	2,684	2,888	227
	2020	7,773	889	1,823	2,266	2,794	205
	2021	8,021	943	1,919	2,398	2,761	210
Greenland	2018	9	0	*1	2	6	152
	2019	9	0	*1	2	6	157
	2020	8	0	*1	1	6	151
	2021	9	0	*1	2	6	152
St. Pierre-Miquelon	2018	*1	..	0	0	0	*87
	2019	*1	..	0	0	0	*103
	2020	*1	..	0	0	0	*96
	2021	0	..	0	0	0	*81

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 States	2018	66,946	6,147	11,525	27,093	22,180	202
	2019	66,771	6,502	11,229	27,062	21,978	200
	2020	61,385	5,851	11,085	23,323	21,126	183
	2021	64,891	6,311	11,648	25,783	21,148	193
Oceania	**2018**	**4,268**	**288**	**1,186**	**1,683**	**1,112**	**100**
	2019	**4,262**	**289**	**1,180**	**1,684**	**1,109**	**98**
	2020	**4,100**	**281**	**1,152**	**1,553**	**1,113**	**93**
	2021	**4,103**	**272**	**1,167**	**1,522**	**1,141**	**92**
American Samoa	2018	*4	0	*1	*2	*1	*91
	2019	*4	0	*1	*2	*1	*93
	2020	*4	0	*1	*2	*1	*93
	2021	*4	0	*1	*2	*1	*95
Australia	2018	3,428	225	950	1,392	862	137
	2019	3,391	215	931	1,390	855	134
	2020	3,292	220	923	1,296	853	128
	2021	3,300	219	946	1,254	880	127
Cook Islands	2018	*1	..	..	*1	0	*56
	2019	*1	..	..	*1	0	*58
	2020	*1	..	..	*1	0	*50
	2021	*1	..	..	*1	0	*54
Fiji	2018	*23	0	*8	*10	4	*25
	2019	*23	0	*8	*10	4	*25
	2020	*18	0	*7	*7	4	*19
	2021	*19	0	*7	*8	4	*20
French Polynesia	2018	10	0	..	7	3	35
	2019	11	0	..	7	3	35
	2020	10	0	..	6	3	32
	2021	10	0	..	7	3	34
Guam	2018	6	..	..	..	6	34
	2019	6	..	..	..	6	34
	2020	6	..	..	..	6	33
	2021	6	..	..	..	6	33
Kiribati	2018	*1	0	0	0	*1	*11
	2019	*1	0	0	0	*1	*11
	2020	*1	0	0	0	*1	*11
	2021	*1	0	0	0	*1	*11
Marshall Islands	2018	*2	..	0	*1	0	*36
	2019	*2	..	0	*1	0	*37
	2020	*2	..	0	*1	0	*38
	2021	*2	..	0	*1	0	*39
Micronesia (Fed. States of)	2018	*1	0	0	*1	0	*13
	2019	*1	0	0	*1	0	*13
	2020	*1	0	0	*1	0	*13
	2021	*1	0	0	*1	0	*13
Nauru	2018	*1	0	0	0	0	*42
	2019	*1	0	0	0	0	*42
	2020	*1	0	0	0	0	*41
	2021	*1	0	0	0	0	*43
New Caledonia	2018	44	7	24	9	3	153
	2019	42	7	23	9	3	149
	2020	39	6	21	8	3	137
	2021	36	6	19	8	3	126

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	2018	589	55	165	224	145	122
	2019	617	66	177	226	148	124
	2020	565	55	162	193	154	112
	2021	561	47	155	205	155	109
Niue	2018	0	..	0	0	0	*32
	2019	0	..	0	0	0	*33
	2020	0	..	0	0	0	*32
	2021	0	..	0	0	0	*33
Northern Mariana Islands	2018	*4	..	..	*2	*1	*74
	2019	*4	..	..	*2	*1	*75
	2020	*3	..	..	*2	*1	*53
	2021	*3	..	..	*2	*1	*59
Palau	2018	2	0	0	2	0	129
	2019	*2	0	0	*2	0	*132
	2020	*2	0	0	*2	0	*127
	2021	*2	0	0	*2	0	*127
Papua New Guinea	2018	*136	..	37	23	*76	*15
	2019	*138	..	39	23	*77	*15
	2020	*139	..	37	24	*78	*14
	2021	*138	..	*39	*22	*78	*14
Samoa	2018	*5	0	0	*2	*2	*22
	2019	*5	0	0	*2	*2	*24
	2020	*4	0	0	*2	*2	*21
	2021	*5	0	0	*2	*2	*21
Solomon Islands	2018	*7	0	0	*3	*4	*10
	2019	*7	0	0	*3	*4	*10
	2020	*7	0	0	*3	*4	*10
	2021	*7	0	0	*3	*4	*9
Tonga	2018	*1	0	..	*1	0	*14
	2019	*2	0	..	*2	0	*18
	2020	2	0	..	2	0	21
	2021	*2	0	..	*2	0	*21
Tuvalu	2018	0	..	..	0	0	*8
	2019	0	..	..	0	0	*8
	2020	0	..	..	0	0	*8
	2021	0	..	..	0	0	*8
Vanuatu	2018	*3	0	0	*2	*1	*10
	2019	*3	0	0	*2	*1	*9
	2020	*3	0	0	*2	*1	*11
	2021	*4	0	0	*2	*1	*11
Wallis and Futuna Is.	2018	0	..	..	0	0	*20
	2019	0	..	..	0	0	*21
	2020	0	..	..	0	0	*23
	2021	0	..	..	0	0	*23

Table 4

CO_2 emissions from fossil fuels

Thousand metric tons and kilograms per capita

Table Notes

This table displays estimates of carbon dioxide (CO_2) emissions from the combustion of fossil fuels based on information from the UN Energy Statistics Database, including country-specific net calorific values (NCVs), where applicable. No estimates for other greenhouse gases are provided, not even in CO_2-equivalent terms. One thousand metric tonnes are equivalent to one Gigagram, the S.I. unit employed by the IPCC.

To arrive at estimates of carbon dioxide emissions, default IPCC emission factors (kg of CO_2 per TJ of fuel combusted) are applied. To obtain figures in TJ per fuel, like in other tables of this Yearbook, country-specific NCVs are used where applicable and available, and default NCVs are used where applicable but country-specific data are unavailable.

Total is approximately equivalent to the IPCC Reference approach for the energy sector plus the IPCC source/sink category "Industrial Processes and Product Use" (IPPU)[1]. In other words, it is based on the total energy supply of fossil fuels as in an energy balance, minus the non-energy use of fuels.

Total is broken down in **Coal**, **Oil** and **Gas** depending on the emission source, whether from solid, liquid, or gaseous fossil fuels, respectively. **Per capita** figures are calculated by diving **Total** by population.

The emission estimates in this table exclude those from the combustion of non-renewable waste, which is a deviation from the IPCC guidelines (including the reference approach). On the other hand, such emissions are minor compared with those from fossil fuels and may be added in future versions of this table.

The table also provides estimates for emissions coming from **International bunkers** (marine and aviation combined) and natural **Gas flaring**. In the IPCC methodology, emissions from **International bunkers** are excluded from national emission inventories and therefore are not included in **Total**. For the world inventories, **International bunkers** should be added to **Total**. Emissions from natural **Gas flaring**, although part of the energy sector, are not accounted for as combustion[2], but rather as fugitive emissions, likewise being excluded from **Total**. In this table, only flaring occurred in the extraction (production) of natural gas is accounted for as flaring, and data may be missing for some countries and/or years.

[1] Please refer to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories available from https://www.ipcc.ch/report/2006-ipcc-guidelines-for-national-greenhouse-gas-inventories/

[2] For inventory purposes, the IPCC defines fuel combustion as the intentional oxidation of materials within an apparatus that is designed to provide heat or mechanical work to a process, or for use away from the apparatus. Information about fossil fuel combustion tends to be much more accurate than information about fugitive emissions (which are not directly observable), and the separation between these categories preserves the accuracy of the emission estimates from combustion.

Figure 11: CO_2 emissions from fossil fuel combustion, 1950-2021

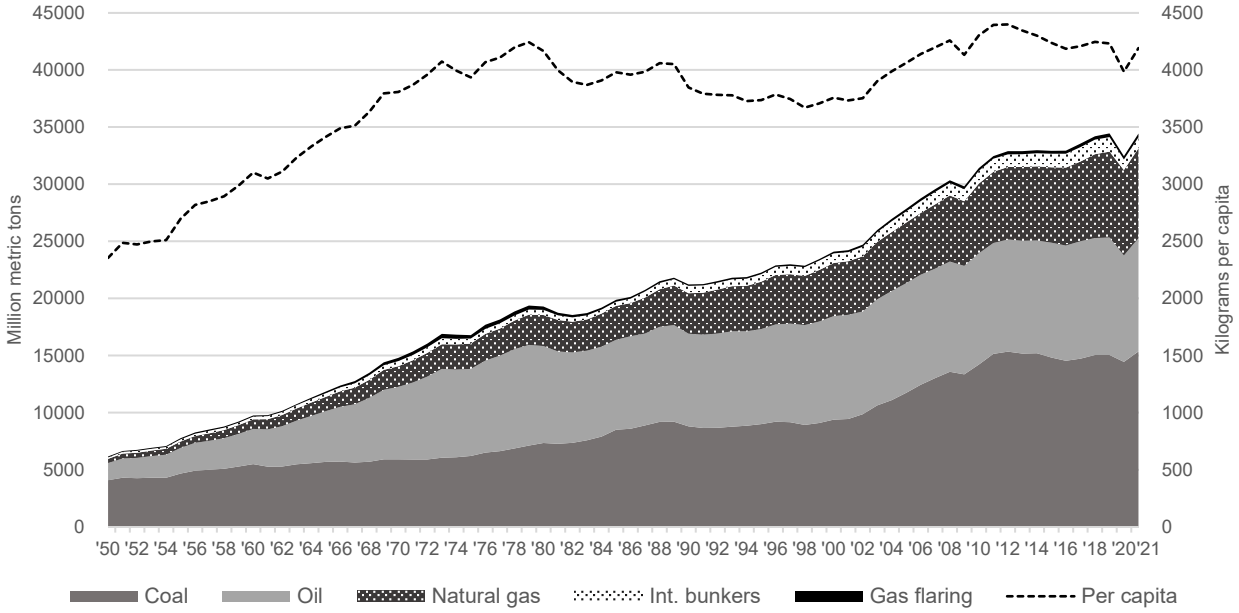


Figure 12: CO_2 emissions from fossil fuel combustion by region, 1990

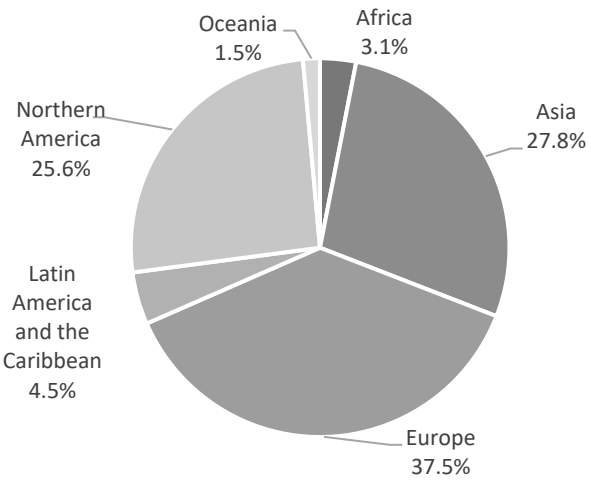


Figure 13: CO_2 emissions from fossil fuel combustion by region, 2021

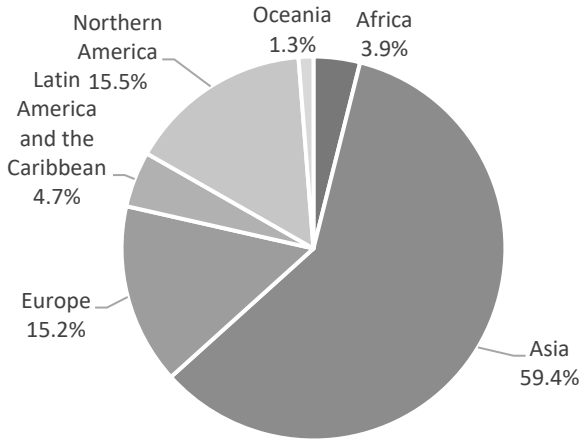


Table 4

CO_2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
World	**2018**	**15,042,053**	**10,247,959**	**7,326,202**	**32,616,214**	**4,245**	**1,274,538**	**305,135**
	2019	**15,046,470**	**10,276,069**	**7,529,816**	**32,852,354**	**4,231**	**1,272,741**	**321,565**
	2020	**14,448,873**	**9,308,173**	**7,481,997**	**31,239,043**	**3,984**	**919,423**	**300,899**
	2021	**15,368,277**	**9,905,258**	**7,873,493**	**33,147,028**	**4,191**	**964,828**	**318,798**
Africa	**2018**	**435,641**	**527,677**	**296,082**	**1,259,399**	**973**	**44,060**	**51,401**
	2019	**477,765**	**563,421**	**300,361**	**1,341,546**	**1,011**	**44,418**	**45,528**
	2020	**448,211**	**495,780**	**281,204**	**1,225,195**	**901**	**32,147**	**40,521**
	2021	**438,015**	**554,877**	**305,895**	**1,298,787**	**933**	**32,955**	**46,202**
Algeria	2018	1,826	52,708	81,870	136,405	3,253	*2,041	5,733
	2019	1,501	56,452	86,100	144,053	3,373	*1,201	5,398
	2020	679	50,678	82,233	133,590	3,074	*1,406	6,285
	2021	1,384	53,847	90,744	145,975	3,304	*1,416	5,477
Angola	2018	..	15,271	1,650	16,921	541	1,714	8,275
	2019	..	14,027	2,494	16,521	511	1,773	5,516
	2020	..	9,238	*2,552	11,789	353	808	4,531
	2021	..	11,989	*2,533	14,522	421	821	4,137
Benin	2018	0	5,322	37	5,359	449	94	..
	2019	248	4,581	111	4,940	402	68	..
	2020	269	4,603	326	5,198	411	51	..
	2021	307	4,765	362	5,434	418	55	..
Botswana	2018	4,833	3,077	..	7,910	3,227	45	..
	2019	4,033	2,923	..	6,956	2,783	49	..
	2020	3,060	2,676	..	5,737	2,253	12	..
	2021	3,438	2,768	..	6,206	2,398	17	..
Burkina Faso	2018	..	4,468	..	4,468	219	94	..
	2019	..	4,626	..	4,626	221	96	..
	2020	..	*4,597	..	*4,597	*214	57	..
	2021	..	*5,185	..	*5,185	*235	92	..
Burundi	2018	19	640	..	659	57	15	..
	2019	49	*653	..	*702	*59	16	..
	2020	*26	*725	..	*751	*61	7	..
	2021	45	*737	..	*781	*62	8	..
Cabo Verde	2018	..	*584	..	*584	*1,023	*392	..
	2019	..	*645	..	*645	*1,118	*372	..
	2020	..	*531	..	*531	*911	*249	..
	2021	..	*560	..	*560	*952	*249	..
Cameroon	2018	..	5,352	1,497	6,849	273	50	..
	2019	..	5,322	1,362	6,684	259	52	..
	2020	..	5,084	1,746	6,830	258	23	..
	2021	..	5,078	1,439	6,517	240	29	..
Central African Rep.	2018	..	*226	..	*226	*44	54	..
	2019	..	*232	..	*232	*45	*54	..
	2020	..	*245	..	*245	*46	*57	..
	2021	..	*248	..	*248	*45	*60	..
Chad	2018	..	1,861	..	1,861	119	87	..
	2019	..	1,842	..	1,842	114	84	..
	2020	..	*1,945	..	*1,945	*117	*86	..
	2021	..	*2,155	..	*2,155	*125	*86	..
Comoros	2018	..	*294	..	*294	*379	*18	..
	2019	..	*320	..	*320	*404	*21	..
	2020	..	*380	..	*380	*472	*18	..
	2021	..	*511	..	*511	*622	*21	..

CO_2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Congo	2018	..	1,964	1,379	3,343	614	100	3,119
	2019	..	1,986	1,935	3,922	704	100	3,300
	2020	..	2,126	2,021	4,147	727	88	3,524
	2021	..	2,220	2,088	4,308	738	91	2,999
Côte d'Ivoire	2018	..	6,322	4,098	10,420	409	731	3
	2019	..	6,164	4,370	10,534	403	816	2
	2020	..	6,568	4,482	11,050	412	467	2
	2021	..	9,078	4,675	13,753	501	620	1
Dem. Rep. of the Congo	2018	..	3,024	..	3,024	35	388	..
	2019	..	3,242	..	3,242	36	420	..
	2020	..	3,430	..	3,430	37	311	..
	2021	..	3,287	..	3,287	34	380	..
Djibouti	2018	..	*393	..	*393	*372	*305	..
	2019	..	*452	..	*452	*421	*315	..
	2020	..	378	..	378	347	*293	..
	2021	..	*397	..	*397	*359	*301	..
Egypt	2018	13,644	108,749	104,973	227,366	2,192	2,250	4,468
	2019	10,523	104,348	111,167	226,039	2,140	2,705	4,573
	2020	5,817	90,429	107,228	203,474	1,893	2,642	4,649
	2021	9,286	105,338	113,026	227,651	2,084	2,578	4,103
Equatorial Guinea	2018	..	1,136	5,490	6,626	4,412	143	4,692
	2019	..	1,164	3,985	5,149	3,315	145	3,775
	2020	..	1,040	4,726	5,766	3,612	96	3,647
	2021	..	1,047	5,781	6,828	4,178	91	*3,940
Eritrea	2018	..	564	..	564	164	111	..
	2019	..	588	..	588	168	98	..
	2020	..	597	..	597	168	63	..
	2021	..	629	..	629	174	55	..
Eswatini	2018	149	890	..	1,038	895	5	..
	2019	185	*942	..	*1,127	*964	5	..
	2020	*182	*944	..	*1,125	*953	*5	..
	2021	*182	*829	..	*1,011	*848	*5	..
Ethiopia	2018	1,025	11,337	..	12,362	111	2,305	..
	2019	1,110	12,711	..	13,820	121	2,586	..
	2020	822	11,546	..	12,368	106	1,195	..
	2021	874	11,892	..	12,766	106	1,553	..
Gabon	2018	..	1,858	1,009	2,867	1,308	549	*1,666
	2019	..	1,528	883	2,411	1,075	641	*1,666
	2020	..	1,749	956	2,704	1,180	573	*1,666
	2021	..	1,986	864	2,850	1,217	534	*1,717
Gambia	2018	..	665	..	665	272	*61	..
	2019	..	*730	..	*730	*291	*63	..
	2020	..	*718	..	*718	*279	*55	..
	2021	..	*745	..	*745	*282	*60	..
Ghana	2018	..	11,569	3,468	15,038	487	582	0
	2019	..	12,147	4,213	16,359	519	692	0
	2020	..	12,395	6,371	18,766	583	396	1
	2021	..	13,024	6,741	19,765	602	624	1
Guinea	2018	..	3,239	..	3,239	258	*94	..
	2019	..	4,009	..	4,009	311	*131	..
	2020	..	4,601	..	4,601	348	*82	..
	2021	..	*4,225	..	*4,225	*312	*102	..

Table 4

CO_2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Guinea-Bissau	2018	..	*323	..	*323	*168	*40	..
	2019	..	*332	..	*332	*168	*41	..
	2020	..	*309	..	*309	*153	*40	..
	2021	..	*311	..	*311	*151	*40	..
Kenya	2018	1,691	14,314	..	16,006	320	2,279	..
	2019	1,494	15,490	..	16,983	333	2,265	..
	2020	2,006	16,423	..	18,429	355	1,256	..
	2021	2,329	15,483	..	17,812	336	1,675	..
Lesotho	2018	*1,547	698	..	*2,245	*1,021	*1	..
	2019	*1,538	730	..	*2,268	*1,019	1	..
	2020	*1,414	645	..	*2,059	*913	0	..
	2021	*2,506	711	..	*3,217	*1,410	*1	..
Liberia	2018	..	*494	..	*494	*101	*30	..
	2019	..	812	..	812	163	*30	..
	2020	..	630	..	630	124	*29	..
	2021	..	589	..	589	113	*30	..
Libya	2018	..	25,902	28,884	54,786	8,457	1,024	7,112
	2019	..	44,542	20,843	65,385	9,953	1,066	7,231
	2020	..	21,952	6,417	28,369	4,263	356	4,874
	2021	..	30,660	12,877	43,537	6,464	1,081	11,818
Madagascar	2018	1,169	2,508	..	3,678	137	149	..
	2019	1,316	2,927	..	4,243	154	158	..
	2020	*1,289	2,617	..	3,907	138	*84	..
	2021	*1,328	3,064	..	4,392	152	*103	..
Malawi	2018	214	1,413	..	1,627	89	*24	..
	2019	220	1,404	..	1,625	86	*11	..
	2020	202	1,330	..	1,532	79	*3	..
	2021	78	1,516	..	1,595	80	*9	..
Mali	2018	..	4,935	..	4,935	248	215	..
	2019	..	5,368	..	5,368	261	196	..
	2020	..	5,931	..	5,931	279	192	..
	2021	..	*6,329	..	*6,329	*289	*196	..
Mauritania	2018	..	4,581	..	4,581	1,073	71	..
	2019	..	4,759	..	4,759	1,086	64	..
	2020	..	4,927	..	4,927	1,095	38	..
	2021	..	*4,637	..	*4,637	*1,005	53	..
Mauritius	2018	1,772	2,809	..	4,581	3,536	2,321	..
	2019	1,630	3,016	..	4,646	3,584	2,539	..
	2020	1,622	2,284	..	3,906	3,010	2,187	..
	2021	1,809	2,270	..	4,079	3,140	2,037	..
Morocco	2018	20,397	36,480	2,171	59,048	1,620	2,745	..
	2019	26,398	37,182	2,055	65,635	1,781	2,875	..
	2020	26,495	33,728	1,599	61,822	1,660	1,310	..
	2021	27,789	37,666	1,597	67,051	1,781	1,616	..
Mozambique	2018	66	4,509	1,660	6,235	212	105	*30
	2019	48	4,396	1,776	6,220	205	111	*59
	2020	80	3,651	1,704	5,436	174	61	*99
	2021	27	5,009	1,849	6,885	215	72	*177
Namibia	2018	*102	3,718	..	3,819	1,588	177	..
	2019	*137	3,674	..	3,811	1,558	173	..
	2020	*152	3,304	..	3,455	1,388	*81	..
	2021	*129	3,355	..	3,484	1,377	98	..

CO_2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Niger	2018	339	1,383	..	1,722	76	*141	..
	2019	342	2,044	75	2,461	105	*146	..
	2020	373	1,923	80	2,376	98	132	..
	2021	*375	*2,166	*75	*2,617	*104	*161	..
Nigeria	2018	6,570	48,892	32,219	87,680	442	3,092	15,722
	2019	6,645	68,540	32,938	108,123	532	3,136	13,515
	2020	5,739	64,979	33,113	103,831	498	1,766	10,777
	2021	6,116	67,135	35,472	108,723	509	2,111	11,289
Rwanda	2018	*16	1,066	*96	1,178	94	*95	..
	2019	*23	1,134	*94	1,251	97	*77	..
	2020	*14	1,130	*91	1,235	94	*50	..
	2021	*22	1,353	*93	1,469	109	*76	..
Sao Tome and Principe	2018	..	142	..	142	673	*15	..
	2019	..	149	..	149	696	*11	..
	2020	..	*143	..	*143	*652	*11	..
	2021	..	*147	..	*147	*661	*12	..
Senegal	2018	2,361	7,044	23	9,429	605	1,051	..
	2019	2,182	8,082	28	10,292	643	1,221	..
	2020	1,410	6,801	28	8,239	501	1,178	..
	2021	2,061	7,528	14	9,604	569	1,062	..
Seychelles	2018	..	611	..	611	5,931	*539	..
	2019	..	604	..	604	5,785	*490	..
	2020	..	*611	..	*611	*5,790	*371	..
	2021	..	*624	..	*624	*5,858	*340	..
Sierra Leone	2018	..	1,049	..	1,049	133	16	..
	2019	..	1,023	..	1,023	127	12	..
	2020	..	1,048	..	1,048	127	5	..
	2021	..	1,283	..	1,283	152	9	..
Somalia	2018	..	*655	..	*655	*42	225	..
	2019	..	*655	..	*655	*41	225	..
	2020	..	*614	..	*614	*37	*178	..
	2021	..	*636	..	*636	*37	*213	..
South Africa	2018	367,020	65,427	9,361	441,808	7,705	14,526	..
	2019	407,966	55,693	9,344	473,003	8,143	14,228	..
	2020	387,337	46,099	9,899	443,335	7,539	12,376	..
	2021	368,065	57,514	8,606	434,184	7,310	9,965	..
South Sudan	2018	..	1,790	..	1,790	172	234	..
	2019	..	1,832	..	1,832	175	263	..
	2020	..	1,742	..	1,742	164	171	..
	2021	..	1,798	..	1,798	167	231	..
St. Helena and Depend.	2018	..	13	..	13	2,302	..	..
	2019	..	14	..	14	2,596	..	..
	2020	..	11	..	11	2,027	..	..
	2021	..	*12	..	*12	*2,190	..	..
Sudan	2018	..	18,574	..	18,574	442	483	..
	2019	..	*19,871	..	*19,871	*460	290	..
	2020	..	19,460	..	19,460	438	168	..
	2021	..	*20,557	..	*20,557	*450	*461	..
Togo	2018	..	1,347	58	1,404	175	208	..
	2019	..	1,299	127	1,426	173	183	..
	2020	..	1,457	144	1,601	190	177	..
	2021	..	1,532	253	1,784	206	234	..

Table 4

CO_2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Tunisia	2018	..	13,907	12,914	26,821	2,248	927	576
	2019	..	13,298	12,978	26,276	2,181	977	486
	2020	..	12,615	12,377	24,992	2,055	340	460
	2021	..	13,633	13,267	26,900	2,194	436	537
Uganda	2018	0	5,275	..	5,275	127	341	..
	2019	0	5,413	..	5,413	126	335	..
	2020	*1	5,117	..	5,118	115	178	..
	2021	*1	5,657	..	5,658	123	264	..
United Rep. of Tanzania	2018	1,227	8,366	3,225	12,818	221	509	*6
	2019	1,446	9,091	3,480	14,017	234	540	*6
	2020	1,407	9,353	3,113	13,873	225	256	*5
	2021	1,909	10,434	3,540	15,883	250	327	*6
Zambia	2018	2,895	3,682	..	6,577	369	91	..
	2019	2,480	4,536	..	7,015	382	91	..
	2020	2,721	4,594	..	7,314	386	55	..
	2021	2,061	4,911	..	6,972	358	73	..
Zimbabwe	2018	6,757	4,257	..	11,014	732	159	..
	2019	6,252	3,879	..	10,130	660	160	..
	2020	5,093	3,135	..	8,228	525	57	..
	2021	5,892	3,816	..	9,708	607	118	..
Asia	**2018**	**11,310,462**	**4,519,672**	**2,719,343**	**18,549,477**	**4,041**	**597,155**	**152,384**
	2019	**11,616,211**	**4,607,495**	**2,851,546**	**19,075,252**	**4,121**	**610,401**	**154,557**
	2020	**11,498,772**	**4,252,963**	**2,929,836**	**18,681,571**	**4,005**	**469,195**	**153,542**
	2021	**12,176,446**	**4,419,005**	**3,096,630**	**19,692,081**	**4,195**	**478,694**	**172,629**
Afghanistan	2018	3,380	6,645	302	10,327	281	*170	..
	2019	3,429	6,863	254	10,545	279	*30	..
	2020	*3,803	7,290	158	11,251	289	*36	..
	2021	*3,131	*6,720	*161	*10,013	*250	*39	..
Armenia	2018	5	838	4,801	5,644	1,990	195	..
	2019	11	1,055	5,017	6,083	2,157	217	..
	2020	30	1,468	5,029	6,527	2,326	117	..
	2021	46	1,536	5,496	7,078	2,536	*164	..
Azerbaijan	2018	3	11,482	21,773	33,258	3,276	479	2,734
	2019	3	11,599	23,694	35,297	3,449	1,084	2,802
	2020	3	9,738	23,922	33,663	3,273	1,160	2,361
	2021	1	10,383	24,844	35,228	3,416	1,409	*2,649
Bahrain	2018	..	2,960	26,051	29,011	19,505	1,523	150
	2019	..	2,993	30,814	33,807	22,625	1,602	336
	2020	..	2,934	30,778	33,712	22,817	905	465
	2021	..	2,569	29,730	32,300	22,074	1,015	267
Bangladesh	2018	8,548	24,876	51,644	85,067	520	1,635	20
	2019	9,070	25,707	57,716	92,493	559	1,735	28
	2020	11,025	24,152	58,336	93,512	559	1,472	29
	2021	13,501	32,676	59,076	105,252	621	1,183	51
Bhutan	2018	675	582	..	1,256	1,648	*12	..
	2019	564	590	..	1,154	1,503	*13	..
	2020	530	417	..	946	1,225	*4	..
	2021	770	423	..	1,193	1,534	*3	..
Brunei Darussalam	2018	..	1,921	5,780	7,701	17,733	255	573
	2019	633	3,624	5,027	9,284	21,194	341	536
	2020	2,227	3,587	4,262	10,076	22,811	135	501
	2021	2,867	3,374	4,486	10,727	24,086	56	577

CO_2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Cambodia	2018	3,511	7,406	..	10,917	681	440	..
	2019	4,685	9,350	..	14,035	866	491	..
	2020	4,561	9,541	..	14,102	860	132	..
	2021	4,094	9,637	..	13,731	828	63	..
China	2018	7,370,990	1,466,126	570,817	9,407,934	6,639	65,829	3,572
	2019	7,566,704	1,524,025	626,002	9,716,731	6,834	66,271	4,023
	2020	7,699,968	1,477,433	672,652	9,850,052	6,913	49,783	5,418
	2021	8,190,403	1,470,381	763,937	10,424,722	7,311	52,489	5,044
China, Hong Kong SAR	2018	25,510	11,843	6,220	43,573	5,824	56,265	..
	2019	24,430	11,962	6,453	42,845	5,716	50,336	..
	2020	13,008	11,378	9,679	34,065	4,541	33,397	..
	2021	14,454	10,175	9,672	34,301	4,577	29,931	..
China, Macao SAR	2018	..	947	183	1,131	1,737	204	..
	2019	..	844	263	1,108	1,669	140	..
	2020	..	778	143	920	1,361	13	..
	2021	..	746	168	914	1,332	10	..
Cyprus	2018	55	6,257	..	6,312	5,179	1,829	..
	2019	68	6,195	..	6,263	5,097	1,814	..
	2020	55	5,689	..	5,744	4,642	1,159	..
	2021	162	5,660	..	5,822	4,680	1,272	..
Georgia	2018	1,321	3,478	4,466	9,265	2,456	328	-4
	2019	1,068	3,647	5,086	9,801	2,599	325	-5
	2020	936	3,522	5,104	9,562	2,539	186	-6
	2021	951	3,753	5,335	10,039	2,671	307	0
India	2018	1,761,197	651,654	81,532	2,494,383	1,822	*18,288	1,720
	2019	1,739,782	*661,370	*82,613	2,483,765	1,796	*17,940	*1,619
	2020	1,576,927	*560,506	*73,421	2,210,855	1,583	*8,648	*1,569
	2021	1,764,631	*597,841	*79,092	2,441,564	1,735	10,643	*1,788
Indonesia	2018	308,390	215,168	75,838	599,395	2,244	3,892	15,106
	2019	372,496	218,395	75,722	666,612	2,473	3,585	15,015
	2020	354,074	198,121	71,006	623,201	2,292	2,500	12,387
	2021	347,130	203,714	73,301	624,145	2,280	1,500	12,341
Iran (Islamic Rep. of)	2018	1,999	199,750	372,434	574,184	6,706	6,991	61,686
	2019	2,478	212,836	407,700	623,015	7,197	5,927	68,680
	2020	3,201	193,673	441,272	638,146	7,311	5,569	*68,956
	2021	2,758	198,214	451,427	652,399	7,420	5,943	*89,901
Iraq	2018	..	114,835	28,981	143,816	3,543	1,623	33,099
	2019	..	114,599	33,146	147,746	3,555	1,611	35,294
	2020	..	83,669	35,262	118,932	2,795	1,240	34,229
	2021	..	79,023	36,295	115,318	2,649	1,740	35,250
Israel	2018	18,965	22,833	18,139	59,937	7,088	4,400	0
	2019	18,840	21,879	18,086	58,805	6,832	4,610	*2
	2020	17,885	18,400	22,757	59,042	6,742	2,535	*2
	2021	14,998	19,957	23,697	58,653	6,590	2,937	1
Japan	2018	461,700	409,427	224,453	1,095,580	8,677	35,320	..
	2019	454,270	393,317	215,573	1,063,161	8,452	35,464	..
	2020	401,085	365,297	215,929	982,311	7,843	23,553	..
	2021	430,043	371,920	203,148	1,005,112	8,066	26,827	..
Jordan	2018	835	14,960	8,074	23,869	2,282	194	..
	2019	851	15,056	8,066	23,974	2,241	*386	..
	2020	838	11,791	7,555	20,184	1,847	268	..
	2021	768	12,707	6,225	19,700	1,767	332	..

Table 4

CO_2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Kazakhstan	2018	149,349	44,993	42,890	237,233	12,797	1,900	..
	2019	137,398	46,037	46,670	230,105	12,269	1,462	..
	2020	130,263	32,946	46,535	209,744	11,051	651	..
	2021	133,699	51,006	39,323	224,028	11,670	1,526	..
Korea, Dem.Ppl's.Rep.	2018	59,444	2,929	..	62,374	2,433	..	..
	2019	66,369	3,203	..	69,572	2,701	..	..
	2020	62,378	3,080	..	65,458	2,531	..	..
	2021	50,883	2,491	..	53,375	2,055	..	..
Korea, Republic of	2018	318,445	182,048	111,622	612,115	11,845	45,146	..
	2019	317,062	157,696	114,785	589,544	11,380	42,363	..
	2020	292,896	156,721	116,224	565,841	10,914	39,636	..
	2021	296,152	178,520	127,768	602,440	11,623	40,358	..
Kuwait	2018	..	51,457	43,898	95,355	22,087	6,136	1,715
	2019	..	50,274	47,486	97,760	22,013	6,100	1,440
	2020	..	32,362	53,050	85,412	19,588	4,329	1,456
	2021	..	29,965	55,525	85,489	20,115	4,402	1,340
Kyrgyzstan	2018	4,222	5,666	656	10,545	1,694	13	..
	2019	3,312	4,408	636	8,355	1,321	*16	..
	2020	3,315	3,693	667	7,675	1,195	*6	..
	2021	4,342	4,294	786	9,421	1,443	*13	..
Lao People's Dem. Rep.	2018	16,049	3,413	..	19,462	2,739	183	..
	2019	14,308	*3,444	..	17,752	2,461	*114	..
	2020	14,374	*3,374	..	17,748	2,425	*112	..
	2021	14,532	*3,382	..	17,914	2,413	*113	..
Lebanon	2018	*655	23,996	..	24,651	4,142	*925	..
	2019	*655	24,159	..	24,813	4,292	*947	..
	2020	*655	*22,829	..	*23,483	*4,147	*908	..
	2021	*655	*18,268	..	*18,922	*3,383	*740	..
Malaysia	2018	88,458	75,331	64,404	228,193	7,043	8,944	9,129
	2019	84,227	92,030	66,719	242,976	7,407	8,906	2,364
	2020	98,834	64,138	64,360	227,332	6,847	4,554	1,970
	2021	91,027	71,198	78,786	241,010	7,178	4,361	1,773
Maldives	2018	..	1,793	..	1,793	3,662	*247	..
	2019	..	2,059	..	2,059	4,081	*231	..
	2020	..	1,734	..	1,734	3,371	*199	..
	2021	..	2,033	..	2,033	3,898	*243	..
Mongolia	2018	42,780	4,060	..	46,840	14,804	117	..
	2019	43,633	5,125	..	48,758	15,084	136	..
	2020	32,997	5,085	..	38,082	11,560	56	..
	2021	38,105	4,921	..	43,026	12,852	80	..
Myanmar	2018	3,397	21,390	8,090	32,877	624	224	48
	2019	4,109	20,231	7,843	32,183	607	230	45
	2020	4,520	19,649	8,778	32,948	617	50	50
	2021	3,338	15,052	9,285	27,675	514	32	0
Nepal	2018	3,858	7,051	..	10,909	383	345	..
	2019	4,087	5,154	..	9,241	320	252	..
	2020	5,529	7,324	..	12,853	438	122	..
	2021	4,727	7,904	..	12,631	421	271	..
Oman	2018	..	8,766	48,755	57,521	12,502	1,452	4,720
	2019	..	-1,491	49,811	48,320	10,498	2,212	5,184
	2020	..	7,546	48,933	56,479	12,431	*1,115	4,959
	2021	..	6,073	54,552	60,625	13,411	616	4,876

CO_2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Other Asia	2018	155,229	67,338	52,378	274,946	11,588	14,237	..
	2019	154,367	64,270	51,595	270,232	11,365	15,018	..
	2020	143,821	59,518	55,724	259,063	10,875	10,663	..
	2021	169,741	55,147	60,626	285,514	11,966	11,516	..
Pakistan	2018	49,292	67,680	73,584	190,556	867	*788	602
	2019	52,849	62,490	72,406	187,745	841	*882	485
	2020	64,642	80,993	62,904	208,540	918	547	476
	2021	66,227	96,241	62,158	224,625	971	768	463
Philippines	2018	66,333	58,348	8,626	133,307	1,228	5,463	..
	2019	71,351	56,394	8,686	136,431	1,236	5,347	..
	2020	71,485	47,144	7,877	126,506	1,128	2,142	..
	2021	77,122	50,349	6,755	134,227	1,179	1,941	..
Qatar	2018	..	-7,397	82,882	75,485	27,283	13,660	1,182
	2019	..	-959	83,146	82,187	29,277	14,515	1,379
	2020	..	-3,255	82,108	78,853	28,566	9,696	2,167
	2021	..	-6,343	85,942	79,599	29,610	5,578	1,399
Saudi Arabia	2018	484	270,120	224,693	495,297	14,144	*21,788	*4,545
	2019	501	292,587	227,466	520,553	14,529	*21,134	*4,138
	2020	439	245,845	228,803	475,087	13,198	*12,008	*4,461
	2021	543	311,626	237,002	549,170	15,276	*12,642	*4,183
Singapore	2018	1,891	46,017	21,126	69,034	11,873	181,660	..
	2019	1,814	55,667	21,440	78,921	13,453	175,225	..
	2020	1,715	57,788	21,673	81,176	13,736	162,263	..
	2021	1,838	57,611	22,120	81,570	13,730	162,838	..
Sri Lanka	2018	5,778	13,648	..	19,426	900	3,617	..
	2019	6,167	14,207	..	20,374	941	3,466	..
	2020	7,411	12,646	..	20,057	924	1,720	..
	2021	7,404	14,630	..	22,035	1,012	2,217	..
State of Palestine	2018	..	3,010	..	3,010	626	..	..
	2019	..	3,328	..	3,328	678	..	..
	2020	..	3,388	..	3,388	675	..	..
	2021	..	3,703	..	3,703	721	..	..
Syrian Arab Republic	2018	3	20,461	6,248	26,712	1,382	865	1,713
	2019	3	18,335	5,993	24,332	1,211	865	1,903
	2020	3	17,870	5,263	23,136	1,114	829	2,094
	2021	3	17,064	5,603	22,669	1,063	808	2,284
Tajikistan	2018	3,284	2,937	111	6,332	694	91	..
	2019	3,577	2,938	284	6,799	728	126	..
	2020	3,684	3,369	*456	7,509	787	77	..
	2021	3,835	3,145	477	7,457	765	52	..
Thailand	2018	63,334	97,022	78,658	239,015	3,360	19,418	642
	2019	65,318	101,353	81,428	248,099	3,479	19,157	621
	2020	61,800	102,553	83,919	248,272	3,474	8,576	636
	2021	53,375	100,225	83,842	237,442	3,316	7,279	524
Timor-Leste	2018	..	515	0	515	408	*11	139
	2019	..	624	0	624	487	*9	83
	2020	..	605	0	605	466	*10	70
	2021	..	592	0	592	448	*11	78
Türkiye	2018	165,003	119,648	94,246	378,898	4,576	14,589	2
	2019	169,145	117,974	85,893	373,012	4,468	16,387	4
	2020	161,117	111,438	91,753	364,307	4,330	7,462	4
	2021	166,113	118,979	113,493	398,585	4,702	10,069	4

Table 4

CO_2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Turkmenistan	2018	..	20,292	39,539	59,831	9,865	1,214	2,936
	2019	..	19,353	41,336	60,688	9,855	1,047	2,649
	2020	..	18,461	42,953	61,415	9,826	234	3,285
	2021	..	18,496	42,953	61,449	9,689	100	2,305
United Arab Emirates	2018	7,614	47,936	120,038	175,588	19,211	49,188	2,386
	2019	7,040	48,935	133,250	189,226	20,542	74,987	1,774
	2020	8,451	55,203	134,665	198,319	21,354	65,520	1,882
	2021	10,269	57,865	126,772	194,906	20,812	69,811	1,712
Uzbekistan	2018	10,103	11,205	77,670	98,979	3,050	*283	1,557
	2019	8,674	10,781	85,342	104,797	3,178	*418	1,228
	2020	12,046	12,250	79,801	104,097	3,105	*350	1,085
	2021	10,711	*10,410	93,647	114,769	3,367	289	924
Viet Nam	2018	128,090	64,537	17,535	210,162	2,214	4,454	1,439
	2019	200,575	71,706	17,896	290,178	3,030	4,599	1,522
	2020	225,975	69,223	15,863	311,061	3,218	2,245	1,317
	2021	180,835	65,003	12,720	258,558	2,653	1,863	1,042
Yemen	2018	285	9,471	202	9,958	323	323	973
	2019	289	9,278	202	9,769	310	327	1,408
	2020	264	8,061	263	8,588	266	300	1,718
	2021	262	7,748	405	8,415	255	297	1,853
Europe	**2018**	**1,566,011**	**1,807,845**	**1,932,102**	**5,305,958**	**7,097**	**385,808**	**34,169**
	2019	**1,411,806**	**1,726,810**	**1,891,060**	**5,029,676**	**6,720**	**357,332**	**43,049**
	2020	**1,225,871**	**1,591,292**	**1,833,127**	**4,650,290**	**6,212**	**252,951**	**39,932**
	2021	**1,353,257**	**1,700,505**	**1,989,437**	**5,043,199**	**6,747**	**270,008**	**52,494**
Albania	2018	491	3,391	76	3,957	1,375	117	..
	2019	337	3,500	135	3,973	1,382	126	..
	2020	597	2,750	104	3,451	1,204	149	..
	2021	894	2,905	104	3,903	1,367	142	..
Andorra	2018	0	512	4	516	6,883	*1	..
	2019	0	500	5	505	6,614	*1	..
	2020	0	384	5	389	5,007	0	..
	2021	0	418	7	425	5,383	0	..
Austria	2018	11,079	31,476	16,644	59,200	6,696	2,572	..
	2019	11,462	31,693	17,197	60,352	6,796	2,972	..
	2020	10,013	28,497	16,395	54,905	6,164	1,013	..
	2021	10,350	30,040	17,387	57,778	6,476	1,290	..
Belarus	2018	3,429	17,714	36,871	58,015	5,984	454	..
	2019	3,635	17,321	35,217	56,173	5,807	586	..
	2020	3,357	17,382	32,452	53,192	5,521	334	..
	2021	3,339	18,447	33,234	55,020	5,744	387	..
Belgium	2018	11,614	43,944	32,790	88,347	7,717	35,363	..
	2019	11,539	42,687	33,305	87,532	7,604	31,888	..
	2020	8,690	37,729	32,844	79,263	6,856	24,057	..
	2021	9,591	40,131	33,261	82,983	7,147	28,856	..
Bosnia and Herzegovina	2018	17,154	4,737	468	22,359	6,576	22	..
	2019	15,797	4,822	442	21,061	6,267	28	..
	2020	16,305	4,423	403	21,131	6,368	12	..
	2021	16,103	4,966	485	21,554	6,590	43	..
Bulgaria	2018	23,099	12,701	5,647	41,447	5,823	1,046	..
	2019	21,480	13,037	5,381	39,898	5,657	985	..
	2020	17,368	11,973	5,556	34,898	5,000	695	..
	2021	21,568	12,581	6,295	40,444	5,874	775	..

CO_2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Croatia	2018	1,460	9,348	4,553	15,361	3,692	619	44
	2019	1,682	9,001	4,678	15,362	3,720	678	9
	2020	1,443	8,029	5,003	14,475	3,533	226	13
	2021	1,656	8,339	5,085	15,081	3,714	370	3
Czechia	2018	63,387	21,070	15,807	100,264	9,518	1,249	..
	2019	57,164	21,193	16,585	94,942	9,010	1,277	..
	2020	49,276	19,708	16,866	85,850	8,152	347	..
	2021	51,680	21,159	18,119	90,958	8,654	375	..
Denmark	2018	6,923	17,910	6,282	31,115	5,396	4,980	193
	2019	3,604	17,612	5,941	27,157	4,686	5,520	157
	2020	3,104	16,397	4,961	24,463	4,199	2,768	92
	2021	4,365	16,616	4,541	25,522	4,360	2,793	90
Estonia	2018	18,672	-84	971	19,559	14,793	1,151	..
	2019	13,521	-365	893	14,049	10,587	790	..
	2020	10,895	-589	818	11,124	8,367	1,010	..
	2021	11,879	-820	926	11,985	9,020	1,095	..
Faeroe Islands	2018	..	*747	..	*747	*14,654	124	..
	2019	..	*762	..	*762	*14,752	143	..
	2020	..	*783	..	*783	*14,936	169	..
	2021	..	*810	..	*810	*15,312	179	..
Finland	2018	17,433	20,045	5,060	42,538	7,713	3,422	..
	2019	14,589	19,172	4,957	38,718	7,012	3,638	..
	2020	12,016	18,315	4,922	35,254	6,376	1,853	..
	2021	12,582	17,188	4,892	34,662	6,261	1,739	..
France	2018	35,267	180,597	83,699	299,562	4,499	24,499	..
	2019	28,421	181,571	85,392	295,385	4,426	24,602	..
	2020	20,326	156,175	79,532	256,033	3,831	11,320	..
	2021	34,044	166,587	84,326	284,957	4,259	11,747	..
Germany	2018	277,618	243,489	165,695	686,801	8,285	35,711	19
	2019	226,711	250,151	169,558	646,419	7,774	34,394	27
	2020	179,209	233,056	168,531	580,796	6,970	18,124	25
	2021	214,159	209,335	176,673	600,167	7,196	23,023	20
Gibraltar	2018	..	695	..	695	21,295	13,092	..
	2019	..	686	37	723	22,113	13,444	..
	2020	..	535	108	643	19,670	13,644	..
	2021	..	533	118	651	19,915	13,317	..
Greece	2018	18,778	29,993	8,531	57,303	5,389	10,447	..
	2019	13,149	30,790	9,539	53,478	5,058	11,656	..
	2020	7,525	26,576	10,695	44,796	4,261	6,364	..
	2021	7,027	27,246	12,083	46,355	4,438	8,008	..
Hungary	2018	9,121	17,958	18,288	45,368	4,641	842	..
	2019	7,390	18,656	18,716	44,763	4,581	851	..
	2020	6,765	16,853	19,296	42,914	4,401	309	..
	2021	5,481	18,115	20,575	44,171	4,549	375	..
Iceland	2018	11	1,625	..	1,636	4,636	1,526	..
	2019	-12	1,691	..	1,679	4,653	1,161	..
	2020	-34	1,507	..	1,473	4,017	339	..
	2021	60	1,596	..	1,656	4,471	536	..
Ireland	2018	6,041	18,652	10,540	35,233	7,288	3,820	..
	2019	4,463	18,710	10,711	33,884	6,921	3,763	..
	2020	4,357	17,203	10,698	32,258	6,522	1,664	..
	2021	5,198	18,215	10,280	33,693	6,757	1,858	..

Table 4

CO_2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Isle of Man	2018	..	..	234	234	2,798	..	..
	2019	..	..	275	275	3,281	..	..
	2020	..	..	267	267	3,175	..	..
	2021	..	..	183	183	2,175	..	..
Italy	2018	33,936	135,376	138,338	307,650	5,135	20,600	..
	2019	25,777	133,037	141,647	300,461	5,028	20,786	..
	2020	20,271	112,808	135,367	268,446	4,509	12,484	..
	2021	22,077	134,428	145,077	301,582	5,088	12,708	..
Kosovo	2018	5,914	2,218	..	8,132	4,756	9	..
	2019	6,205	2,301	..	8,507	5,043	8	..
	2020	6,365	2,244	..	8,610	5,153	7	..
	2021	6,461	2,515	..	8,976	5,401	7	..
Latvia	2018	191	4,090	2,746	7,027	3,630	589	0
	2019	161	3,983	2,591	6,735	3,514	1,401	0
	2020	94	3,846	2,138	6,078	3,204	828	0
	2021	73	3,951	2,265	6,288	3,356	891	0
Liechtenstein	2018	..	..	50	50	1,303	..	..
	2019	..	..	50	50	1,310	..	..
	2020	..	..	49	49	1,254	..	..
	2021	..	..	54	54	1,388	..	..
Lithuania	2018	829	8,134	2,156	11,120	3,866	1,032	..
	2019	776	7,985	2,127	10,888	3,822	1,002	..
	2020	605	7,717	2,504	10,827	3,839	750	..
	2021	719	7,882	2,552	11,154	4,003	789	..
Luxembourg	2018	166	7,125	1,606	8,897	14,635	1,880	..
	2019	182	7,288	1,607	9,077	14,641	1,840	..
	2020	153	5,763	1,459	7,375	11,699	1,674	..
	2021	168	6,059	1,573	7,800	12,200	1,910	..
Malta	2018	..	870	688	1,558	3,169	7,642	..
	2019	..	945	719	1,664	3,304	7,844	..
	2020	..	867	747	1,615	3,133	7,267	..
	2021	..	873	750	1,623	3,081	6,518	..
Montenegro	2018	1,487	1,008	..	2,494	3,950	83	..
	2019	1,519	1,053	..	2,572	4,080	67	..
	2020	1,579	916	..	2,496	3,968	15	..
	2021	1,386	1,116	..	2,502	3,984	38	..
Netherlands (Kingd. of the)	2018	32,602	49,140	66,568	148,310	8,580	47,817	50
	2019	25,250	49,232	69,066	143,548	8,267	48,124	40
	2020	16,073	43,020	68,011	127,104	7,290	43,708	35
	2021	22,384	45,789	64,563	132,736	7,584	43,117	153
North Macedonia	2018	4,297	3,179	441	7,918	3,746	0	..
	2019	4,229	3,185	516	7,930	3,751	..	..
	2020	3,611	3,012	591	7,213	3,417	..	..
	2021	2,661	3,297	750	6,709	3,190	..	..
Norway	2018	3,155	23,038	11,881	38,074	7,167	2,819	792
	2019	3,088	20,031	10,475	33,595	6,281	2,676	707
	2020	3,183	20,819	9,509	33,511	6,229	1,451	611
	2021	3,220	20,349	10,764	34,333	6,354	1,460	547
Poland	2018	197,048	78,589	33,176	308,813	8,017	3,935	60
	2019	175,594	79,544	33,721	288,859	7,504	4,168	27
	2020	163,150	75,785	35,362	274,297	7,138	2,348	44
	2021	181,177	82,431	38,223	301,831	7,879	2,823	30

CO_2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Portugal	2018	10,682	24,955	11,797	47,434	4,610	6,809	..
	2019	4,967	25,193	12,410	42,570	4,137	7,567	..
	2020	2,752	22,273	12,046	37,071	3,600	3,828	..
	2021	936	22,233	11,508	34,676	3,370	4,158	..
Republic of Moldova	2018	308	2,735	1,927	4,969	1,582	170	..
	2019	384	2,820	1,780	4,983	1,603	151	..
	2020	299	2,660	1,811	4,771	1,546	53	..
	2021	352	2,966	2,074	5,392	1,761	128	..
Romania	2018	20,996	28,236	22,253	71,486	3,646	432	..
	2019	20,572	28,366	20,643	69,582	3,564	519	..
	2020	14,399	27,491	21,454	63,344	3,258	264	..
	2021	16,815	30,100	22,202	69,117	3,576	333	..
Russian Federation	2018	487,878	337,677	926,677	1,752,231	12,030	*54,682	30,312
	2019	507,963	264,488	875,130	1,647,581	11,305	25,375	39,513
	2020	467,771	288,125	851,955	1,607,850	11,042	36,248	37,127
	2021	517,033	332,419	961,713	1,811,166	12,482	36,619	50,052
Serbia	2018	31,196	8,939	4,638	44,773	6,023	481	..
	2019	31,168	9,224	4,364	44,756	6,047	485	..
	2020	32,568	8,572	4,321	45,461	6,178	292	..
	2021	28,871	9,605	5,375	43,851	6,010	385	0
Slovakia	2018	13,336	9,233	8,517	31,086	5,707	145	2
	2019	10,714	9,116	8,746	28,576	5,240	139	2
	2020	9,080	8,514	8,690	26,284	4,817	88	2
	2021	11,130	8,910	9,735	29,775	5,466	69	2
Slovenia	2018	4,640	7,046	1,689	13,375	6,351	826	..
	2019	4,399	6,784	1,715	12,897	6,104	689	..
	2020	4,226	5,789	1,715	11,731	5,539	403	..
	2021	3,747	6,334	1,807	11,888	5,609	309	..
Spain	2018	43,860	146,196	62,518	252,575	5,398	36,801	..
	2019	20,166	141,645	71,475	233,286	4,950	37,667	..
	2020	12,082	117,276	64,552	193,910	4,094	25,017	..
	2021	12,354	131,569	68,173	212,097	4,466	28,787	..
Sweden	2018	8,786	26,790	1,539	37,116	3,652	8,557	..
	2019	7,964	23,463	1,418	32,845	3,199	9,210	..
	2020	6,111	20,542	2,063	28,715	2,769	9,146	..
	2021	6,730	22,729	1,523	30,982	2,960	9,144	..
Switzerland	2018	417	24,214	6,705	31,336	3,680	5,669	..
	2019	373	25,351	6,879	32,602	3,802	5,724	..
	2020	360	23,406	6,694	30,461	3,526	2,103	..
	2021	364	22,716	7,279	30,359	3,493	2,379	..
Ukraine	2018	110,011	37,448	58,176	205,635	4,627	..	..
	2019	101,939	38,755	51,440	192,134	4,346	..	..
	2020	87,957	39,695	47,861	175,513	3,997	..	..
	2021	81,563	42,688	49,149	173,400	3,983	..	..
United Kingdom	2018	32,697	165,089	155,857	353,643	5,323	43,772	2,698
	2019	23,483	159,829	153,576	336,889	5,045	43,383	2,566
	2020	21,966	132,465	144,772	299,203	4,462	20,577	1,983
	2021	23,059	145,138	153,753	321,950	4,785	20,527	1,597
Latin America & Carib.	**2018**	**173,491**	**940,715**	**456,998**	**1,571,204**	**2,454**	**70,249**	**30,670**
	2019	**175,272**	**967,403**	**444,095**	**1,586,770**	**2,457**	**72,979**	**36,929**
	2020	**152,231**	**852,195**	**421,429**	**1,425,855**	**2,191**	**45,114**	**34,274**
	2021	**155,244**	**939,136**	**463,659**	**1,558,039**	**2,379**	**53,599**	**22,982**

Table 4

CO_2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Anguilla	2018	..	134	..	134	8,854	*30	..
	2019	..	147	..	147	9,566	*36	..
	2020	..	139	..	139	8,939	*23	..
	2021	..	143	..	143	9,083	*38	..
Antigua and Barbuda	2018	..	*626	..	*626	*6,837	*373	..
	2019	..	*650	..	*650	*7,059	*383	..
	2020	..	*628	..	*628	*6,778	*367	..
	2021	..	*646	..	*646	*6,930	*380	..
Argentina	2018	4,553	71,337	96,374	172,264	3,879	5,091	0
	2019	2,238	71,757	95,812	169,807	3,795	4,215	0
	2020	3,371	63,080	91,432	157,882	3,506	2,277	0
	2021	4,714	82,891	95,525	183,131	4,045	1,648	0
Aruba	2018	..	*883	..	*883	*8,332	*316	..
	2019	..	*843	..	*843	*7,920	*298	..
	2020	..	*834	..	*834	*7,825	*284	..
	2021	..	*874	..	*874	*8,207	*307	..
Bahamas	2018	*4	2,487	..	2,491	6,197	*1,288	..
	2019	*4	2,562	..	2,566	6,343	*1,359	..
	2020	*4	2,081	..	2,085	5,129	*1,284	..
	2021	*4	2,543	..	2,547	6,243	*1,890	..
Barbados	2018	..	1,331	51	1,382	4,940	*403	*20
	2019	..	1,288	45	1,333	4,757	*400	*18
	2020	..	1,139	31	1,169	4,166	*197	*10
	2021	..	1,052	27	1,079	3,838	*219	*10
Belize	2018	..	608	2	610	1,597	45	..
	2019	..	718	1	719	1,847	79	..
	2020	..	586	1	587	1,487	77	..
	2021	..	615	1	615	1,538	99	..
Bolivia (Plur. State of)	2018	19	12,225	8,315	20,559	1,771	201	97
	2019	21	12,849	7,718	20,588	1,748	203	109
	2020	9	10,285	6,720	17,014	1,425	82	82
	2021	23	12,703	7,401	20,127	1,666	91	*118
Bonaire, St Eustatius, Saba	2018	..	*102	..	*102	*4,102	*167	..
	2019	..	*112	..	*112	*4,366	*168	..
	2020	..	*115	..	*115	*4,412	*115	..
	2021	..	*113	..	*113	*4,237	*126	..
Brazil	2018	65,729	283,979	66,914	416,622	1,982	16,848	2,984
	2019	61,640	287,603	67,064	416,307	1,966	18,106	3,438
	2020	55,823	275,652	61,774	393,248	1,845	15,105	2,724
	2021	68,288	292,720	85,778	446,786	2,085	12,758	2,364
British Virgin Islands	2018	..	*164	..	*164	*5,395	..	..
	2019	..	*187	..	*187	*6,115	..	..
	2020	..	*184	..	*184	*5,944	..	..
	2021	..	*187	..	*187	*6,025	..	..
Cayman Islands	2018	..	623	..	623	9,604	115	..
	2019	..	706	..	706	10,680	106	..
	2020	..	642	..	642	9,542	47	..
	2021	..	651	..	651	9,561	24	..
Chile	2018	28,256	48,595	9,153	86,005	4,599	2,430	*7
	2019	32,404	50,120	10,507	93,031	4,886	2,594	*1
	2020	26,288	44,835	9,946	81,069	4,200	1,318	11
	2021	25,166	48,421	11,063	84,651	4,343	1,584	8

CO_2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Colombia	2018	13,562	43,626	23,816	81,005	1,644	287	982
	2019	18,185	46,265	24,531	88,981	1,773	4,591	947
	2020	16,696	43,424	24,301	84,422	1,658	2,238	607
	2021	11,129	54,866	22,024	88,018	1,709	3,094	645
Costa Rica	2018	1	7,620	..	7,621	1,512	659	..
	2019	1	7,343	..	7,344	1,444	706	..
	2020	0	6,510	..	6,511	1,271	306	..
	2021	51	7,347	..	7,398	1,435	542	..
Cuba	2018	14	20,705	1,911	22,630	1,998	*1,595	28
	2019	0	20,283	1,874	22,157	1,958	*1,549	32
	2020	5	19,361	1,763	21,129	1,870	*1,507	28
	2021	13	20,737	1,701	22,451	1,995	*1,526	76
Curaçao	2018	..	4,237	*106	4,343	23,511	6,666	..
	2019	..	2,314	0	2,314	11,985	6,441	..
	2020	..	1,870	..	1,870	9,882	5,180	..
	2021	..	2,057	..	2,057	10,808	5,487	..
Dominica	2018	..	*169	..	*169	*2,384	*5	..
	2019	..	*177	..	*177	*2,485	*5	..
	2020	..	*162	..	*162	*2,244	*5	..
	2021	..	*163	..	*163	*2,257	*5	..
Dominican Republic	2018	3,023	17,947	2,242	23,212	2,156	1,775	..
	2019	3,002	20,271	2,535	25,809	2,372	1,521	..
	2020	6,812	14,949	2,506	24,267	2,206	796	..
	2021	6,425	17,522	3,707	27,654	2,487	1,232	..
Ecuador	2018	..	33,558	1,393	34,952	2,054	3,064	1,274
	2019	..	35,368	1,244	36,612	2,111	2,612	1,298
	2020	..	28,323	1,057	29,380	1,670	899	1,209
	2021	..	33,088	1,115	34,203	1,922	3,390	1,173
El Salvador	2018	2	5,911	..	5,913	942	549	..
	2019	2	7,115	..	7,117	1,133	579	..
	2020	1	6,249	..	6,250	993	215	..
	2021	2	7,219	4	7,225	1,144	401	..
Falkland Is. (Malvinas)	2018	*5	36	..	41	11,100	..	..
	2019	*5	37	..	42	11,311	..	..
	2020	3	39	..	42	11,080	..	..
	2021	3	38	..	40	10,719	..	..
Grenada	2018	..	317	..	317	2,603	24	..
	2019	..	343	..	343	2,793	30	..
	2020	..	296	..	296	2,390	26	..
	2021	..	318	..	318	2,555	27	..
Guatemala	2018	4,827	12,794	..	17,621	1,046	1,678	..
	2019	4,712	13,746	..	18,458	1,079	1,667	..
	2020	3,043	13,068	..	16,110	928	1,393	..
	2021	3,895	14,871	..	18,765	1,066	1,758	..
Guyana	2018	5	2,373	0	2,379	3,028	54	..
	2019	9	2,625	1	2,635	3,298	53	..
	2020	5	2,734	2	2,741	3,438	15	..
	2021	*4	3,250	7	3,261	4,053	*24	..
Haiti	2018	..	3,370	..	3,370	306	71	..
	2019	..	3,082	..	3,082	276	70	..
	2020	..	3,192	..	3,192	282	68	..
	2021	..	3,440	..	3,440	301	67	..

Table 4

CO_2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Honduras	2018	..	9,190	..	9,190	938	..	..
	2019	..	10,634	..	10,634	1,068	..	..
	2020	..	9,036	..	9,036	893	..	..
	2021	..	9,631	..	9,631	937	..	..
Jamaica	2018	212	7,443	191	7,846	2,790	802	..
	2019	288	8,368	577	9,233	3,282	918	..
	2020	288	4,871	1,420	6,579	2,333	474	..
	2021	288	5,251	1,465	7,004	2,477	530	..
Mexico	2018	49,674	227,627	169,196	446,497	3,600	14,558	0
	2019	47,561	236,994	160,540	445,095	3,558	14,974	0
	2020	35,383	202,828	164,587	402,798	3,197	6,070	0
	2021	30,859	221,027	169,818	421,704	3,328	10,182	0
Montserrat	2018	..	30	..	30	6,864	*4	..
	2019	..	25	..	25	5,516	*3	..
	2020	..	24	..	24	5,386	*3	..
	2021	..	*25	..	*25	*5,715	*3	..
Nicaragua	2018	..	5,016	..	5,016	763	51	..
	2019	..	5,076	..	5,076	762	50	..
	2020	..	4,528	..	4,528	670	16	..
	2021	..	5,015	..	5,015	732	29	..
Panama	2018	534	7,882	549	8,965	2,152	1,868	..
	2019	2,189	8,713	1,708	12,611	2,979	1,882	..
	2020	2,355	3,539	921	6,815	1,587	656	..
	2021	2,190	6,887	1,100	10,176	2,339	1,037	..
Paraguay	2018	15	8,292	..	8,306	1,289	226	..
	2019	5	8,023	..	8,028	1,229	224	..
	2020	2	7,295	..	7,297	1,102	80	..
	2021	2	8,038	..	8,040	1,199	107	..
Peru	2018	2,644	33,182	15,345	51,171	1,589	3,617	205
	2019	2,709	34,731	16,090	53,530	1,631	3,510	226
	2020	1,934	27,054	13,520	42,508	1,276	1,528	139
	2021	1,978	26,413	17,663	46,054	1,366	2,237	*128
Puerto Rico	2018	..	..	3,349	3,349	1,009	..	..
	2019	..	..	3,743	3,743	1,137	..	..
	2020	..	..	2,758	2,758	843	..	..
	2021	..	..	3,940	3,940	1,210	..	..
Sint Maarten (Dutch part)	2018	..	*702	..	*702	*16,624	*730	..
	2019	..	*705	..	*705	*16,407	*737	..
	2020	..	*670	..	*670	*15,366	*686	..
	2021	..	*701	..	*701	*15,907	*732	..
St. Kitts-Nevis	2018	..	*251	..	*251	*5,264	*16	..
	2019	..	*256	..	*256	*5,355	*17	..
	2020	..	*239	..	*239	*5,018	*16	..
	2021	..	*237	..	*237	*4,969	*16	..
St. Lucia	2018	..	521	..	521	2,931	103	..
	2019	..	514	..	514	2,878	*103	..
	2020	..	*499	..	*499	*2,786	*87	..
	2021	..	*519	..	*519	*2,890	*91	..
St. Vincent-Grenadines	2018	..	246	..	246	2,338	0	..
	2019	..	225	..	225	2,149	0	..
	2020	..	241	..	241	2,303	0	..
	2021	..	*240	..	*240	*2,296	0	..

CO_2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Suriname	2018	..	2,075	10	2,085	3,512	*246	2
	2019	..	2,617	12	2,628	4,378	*243	2
	2020	..	2,914	14	2,927	4,822	*215	2
	2021	..	2,635	13	2,648	4,320	*241	2
Trinidad and Tobago	2018	..	3,735	15,159	18,894	12,557	1,895	2,685
	2019	..	3,673	14,537	18,210	11,981	732	2,876
	2020	..	3,374	12,157	15,530	10,230	506	2,742
	2021	..	3,086	11,808	14,894	9,762	547	2,323
Turks and Caicos Islands	2018	..	*369	..	*369	*8,891	*77	..
	2019	..	*373	..	*373	*8,650	*78	..
	2020	..	*366	..	*366	*8,275	*77	..
	2021	..	*374	..	*374	*8,295	*79	..
Uruguay	2018	0	6,178	117	6,295	1,837	783	..
	2019	0	5,991	171	6,162	1,797	801	..
	2020	0	6,085	126	6,212	1,811	445	..
	2021	0	7,428	145	7,573	2,210	417	..
Venezuela (Bolivar. Rep.)	2018	411	52,217	42,803	95,432	3,200	1,538	22,386
	2019	298	51,974	35,384	87,655	3,026	936	27,982
	2020	208	38,255	26,393	64,857	2,276	433	26,718
	2021	209	33,152	29,354	62,715	2,224	635	16,133
Northern America	**2018**	**1,359,827**	**2,296,347**	**1,840,701**	**5,496,875**	**14,885**	**155,593**	**28,982**
	2019	**1,165,129**	**2,254,451**	**1,957,626**	**5,377,206**	**14,456**	**164,419**	**32,641**
	2020	**940,412**	**1,961,469**	**1,923,037**	**4,824,919**	**12,902**	**103,626**	**26,007**
	2021	**1,071,681**	**2,140,861**	**1,927,138**	**5,139,680**	**13,696**	**122,557**	**19,131**
Bermuda	2018	0	708	..	708	11,133	*83	..
	2019	0	604	..	604	9,460	*78	..
	2020	0	443	..	444	6,927	*66	..
	2021	0	526	..	526	8,190	*73	..
Canada	2018	58,618	253,489	267,594	579,701	15,653	16,169	3,022
	2019	49,973	258,015	270,086	578,074	15,406	15,747	2,882
	2020	39,804	231,536	256,675	528,015	13,936	7,372	2,854
	2021	41,183	233,791	266,717	541,691	14,197	7,164	3,078
Greenland	2018	..	567	..	567	10,138	68	..
	2019	..	583	..	583	10,426	64	..
	2020	..	559	..	559	9,969	64	..
	2021	..	569	..	569	10,113	39	..
St. Pierre-Miquelon	2018	..	*62	..	*62	*10,438	*16	..
	2019	..	*67	..	*67	*11,382	*17	..
	2020	..	*64	..	*64	*10,781	*10	..
	2021	..	*57	..	*57	*9,694	*5	..
United States	2018	1,301,209	2,041,522	1,573,106	4,915,837	14,800	139,257	25,960
	2019	1,115,155	1,995,182	1,687,540	4,797,877	14,351	148,513	29,760
	2020	900,609	1,728,867	1,666,362	4,295,838	12,787	96,114	23,153
	2021	1,030,498	1,905,919	1,660,421	4,596,838	13,641	115,276	16,053
Oceania	**2018**	**196,621**	**155,702**	**80,977**	**433,300**	**10,186**	**21,673**	**7,528**
	2019	**200,287**	**156,490**	**85,128**	**441,905**	**10,211**	**23,193**	**8,861**
	2020	**183,376**	**154,475**	**93,363**	**431,214**	**9,816**	**16,390**	**6,624**
	2021	**173,633**	**150,876**	**90,733**	**415,242**	**9,333**	**7,015**	**5,360**
American Samoa	2018	..	*407	..	*407	*8,414	*79	..
	2019	..	*407	..	*407	*8,610	*79	..
	2020	..	*392	..	*392	*8,483	*73	..
	2021	..	*392	..	*392	*8,701	*73	..

Table 4

CO_2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Australia	2018	189,488	122,672	73,445	385,606	15,437	15,824	7,158
	2019	191,764	122,726	77,262	391,752	15,449	17,337	8,653
	2020	174,774	124,083	84,600	383,458	14,938	13,593	6,463
	2021	165,678	118,270	82,865	366,813	14,151	5,010	5,177
Cook Islands	2018	..	*81	..	*81	*4,674	*31	..
	2019	..	*82	..	*82	*4,765	*30	..
	2020	..	*69	..	*69	*4,058	*8	..
	2021	..	*75	..	*75	*4,424	*6	..
Fiji	2018	0	*1,381	..	*1,381	*1,503	*303	..
	2019	..	*1,386	..	*1,386	*1,509	*287	..
	2020	..	*1,022	..	*1,022	*1,110	*105	..
	2021	..	*1,114	..	*1,114	*1,205	*175	..
French Polynesia	2018	..	900	..	900	3,023	..	..
	2019	..	911	..	911	3,038	..	..
	2020	..	851	..	851	2,818	..	..
	2021	..	894	..	894	2,940	..	..
Kiribati	2018	..	*73	..	*73	*596	*2	..
	2019	..	*73	..	*73	*589	*2	..
	2020	..	*72	..	*72	*569	*2	..
	2021	..	*72	..	*72	*559	*2	..
Marshall Islands	2018	..	*152	..	*152	*3,302	*7	..
	2019	..	*152	..	*152	*3,401	*7	..
	2020	..	*150	..	*150	*3,461	*6	..
	2021	..	*150	..	*150	*3,559	*6	..
Micronesia (Fed. States of)	2018	..	*147	..	*147	*1,326	*31	..
	2019	..	*147	..	*147	*1,324	*32	..
	2020	..	*146	..	*146	*1,303	*30	..
	2021	..	*144	..	*144	*1,276	*30	..
Nauru	2018	..	*55	..	*55	*4,634	*24	..
	2019	..	*54	..	*54	*4,471	*24	..
	2020	..	*55	..	*55	*4,449	*22	..
	2021	..	*58	..	*58	*4,617	*23	..
New Caledonia	2018	2,294	2,878	..	5,172	18,156	122	..
	2019	2,337	2,658	..	4,995	17,503	114	..
	2020	2,115	2,419	..	4,535	15,833	65	..
	2021	1,728	2,261	..	3,989	13,861	73	..
New Zealand	2018	4,838	18,540	6,648	30,026	6,206	4,812	*278
	2019	6,186	19,153	6,835	32,174	6,488	4,859	141
	2020	6,487	17,747	6,780	31,014	6,128	2,120	52
	2021	6,227	19,679	5,884	31,790	6,197	1,250	53
Niue	2018	..	*6	..	*6	*3,167	2	..
	2019	..	*6	..	*6	*3,365	2	..
	2020	..	*6	..	*6	*3,306	*2	..
	2021	..	*7	..	*7	*3,367	*2	..
Northern Mariana Islands	2018	..	*558	..	*558	*11,088	*73	..
	2019	..	*561	..	*561	*11,251	*73	..
	2020	..	*399	..	*399	*8,051	*41	..
	2021	..	*434	..	*434	*8,777	*51	..
Palau	2018	..	*219	..	*219	*12,253	*20	..
	2019	..	*224	..	*224	*12,529	*22	..
	2020	..	*215	..	*215	*11,986	*19	..
	2021	..	*215	..	*215	*11,952	*19	..

CO_2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Papua New Guinea	2018	..	6,734	883	7,617	816	209	93
	2019	..	7,000	1,031	8,031	842	*199	67
	2020	..	5,862	1,982	7,844	805	*208	108
	2021	..	*6,111	*1,984	*8,096	*814	*202	130
Samoa	2018	..	245	..	245	1,167	*38	..
	2019	..	275	..	275	1,299	*38	..
	2020	..	*246	..	*246	*1,144	*16	..
	2021	..	*245	..	*245	*1,120	*16	..
Solomon Islands	2018	..	*303	..	*303	*460	*30	..
	2019	..	*307	..	*307	*455	*30	..
	2020	..	*302	..	*302	*437	*25	..
	2021	..	*299	..	*299	*423	*24	..
Tonga	2018	..	136	..	136	1,289	*13	..
	2019	..	161	..	161	1,533	*2	..
	2020	..	190	..	190	1,806	1	..
	2021	..	192	..	192	1,810	*1	..
Tuvalu	2018	..	*10	..	*10	*909	*1	..
	2019	..	*10	..	*10	*903	*1	..
	2020	..	*9	..	*9	*854	*1	..
	2021	..	*10	..	*10	*859	*1	..
Vanuatu	2018	..	181	..	181	609	*50	..
	2019	..	169	..	169	557	*52	..
	2020	..	210	..	210	675	*49	..
	2021	..	224	..	224	702	*51	..
Wallis and Futuna Is.	2018	..	26	..	26	2,189	4	..
	2019	..	27	..	27	2,282	4	..
	2020	..	28	..	28	2,437	3	..
	2021	..	29	..	29	2,493	2	..

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 14: Production of coal by region, 1990-2021

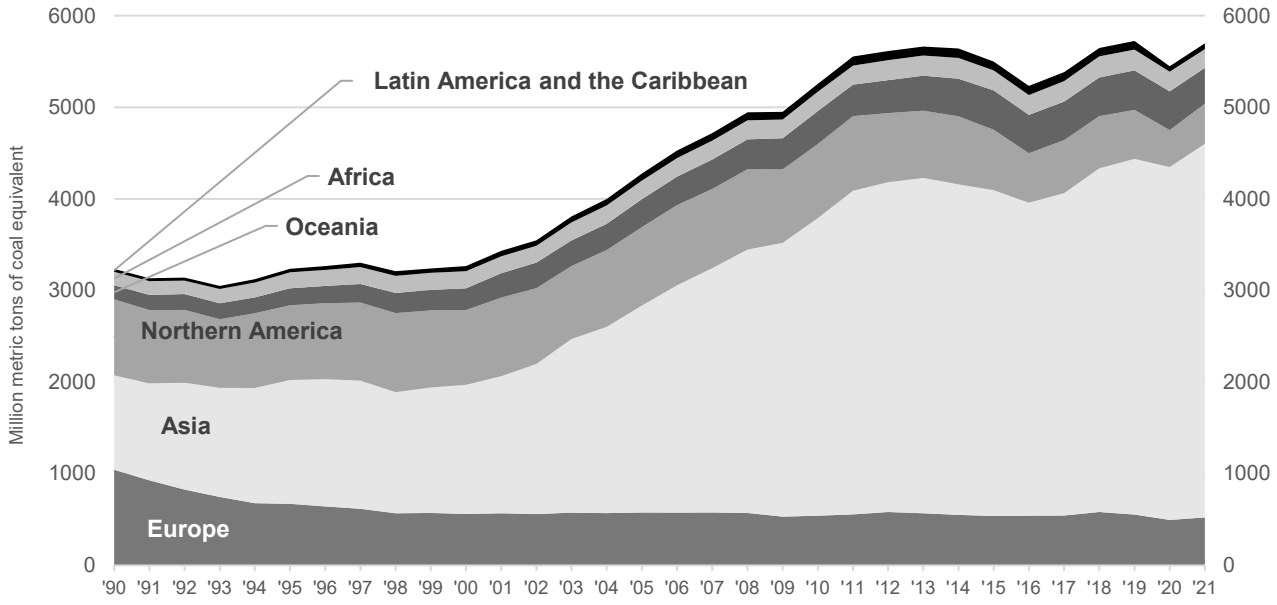


Table 5

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	**2018**	**5,647,822**	**1,197,258**	**1,322,169**	**13,972**	**5,508,938**	**717**
	2019	**5,724,536**	**1,208,378**	**1,286,094**	**126,699**	**5,520,121**	**711**
	2020	**5,447,735**	**1,105,224**	**1,210,576**	**23,991**	**5,318,392**	**678**
	2021	**5,698,107**	**1,149,232**	**1,195,640**	**7,026**	**5,644,672**	**714**
Africa	**2018**	**230,355**	**21,227**	**90,942**	**2,130**	**158,510**	**122**
	2019	**226,700**	**21,718**	**74,192**	**465**	**173,761**	**131**
	2020	**214,246**	**15,954**	**66,458**	**927**	**162,816**	**120**
	2021	**203,625**	**18,923**	**62,802**	**491**	**159,255**	**114**
Algeria	2018	..	538	..	-45	583	14
	2019	..	467	..	-14	481	11
	2020	..	218	..	0	217	5
	2021	..	452	..	8	443	10
Benin	2018	..	105	..	105	0	0
	2019	..	90	..	..	90	7
	2020	..	97	..	..	97	8
	2021	..	139	..	28	111	9
Botswana	2018	1,999	..	255	..	1,743	711
	2019	1,700	..	245	..	1,455	582
	2020	1,520	..	416	..	1,104	433
	2021	1,708	..	468	..	1,240	479
Burundi	2018	6	0	..	..	6	1
	2019	8	9	..	..	17	1
	2020	5	4	..	..	9	1
	2021	6	9	..	..	15	1
Egypt	2018	..	4,863	..	-39	4,902	47
	2019	..	3,972	156	..	3,816	36
	2020	..	2,053	17	..	2,036	19
	2021	..	3,280	..	..	3,280	30
Eswatini	2018	114	54	114	..	54	46
	2019	103	67	103	..	67	57
	2020	*101	*66	*101	..	*66	*56
	2021	*102	*66	*102	..	*66	*55
Ethiopia	2018	2	368	..	..	370	3
	2019	2	398	..	..	400	4
	2020	6	290	..	..	297	3
	2021	7	308	..	..	315	3
Kenya	2018	..	610	..	..	610	12
	2019	..	539	..	..	539	11
	2020	..	724	..	..	724	14
	2021	..	840	..	..	840	16
Lesotho	2018	..	*558	..	..	*558	*254
	2019	..	*555	..	..	*555	*249
	2020	..	*510	..	..	*510	*226
	2021	..	*904	..	..	*904	*396
Madagascar	2018	..	420	..	..	420	16
	2019	..	473	..	..	473	17
	2020	..	*463	..	..	*463	*16
	2021	..	*477	..	..	*477	*17
Malawi	2018	44	42	8	..	77	4
	2019	48	32	1	..	79	4
	2020	48	25	0	..	73	4
	2021	27	2	..	..	28	1

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	2018	..	1,136	..	497	639	493
	2019	..	1,039	..	451	588	454
	2020	..	1,053	..	468	585	451
	2021	..	677	..	24	652	502
Morocco	2018	..	7,976	..	619	7,357	202
	2019	..	9,535	..	14	9,522	258
	2020	..	9,396	..	-161	9,557	257
	2021	..	10,316	..	293	10,023	266
Mozambique	2018	14,719	..	14,220	476	24	1
	2019	9,928	..	9,968	-58	17	1
	2020	6,820	..	6,501	291	29	1
	2021	10,076	..	9,534	532	10	0
Namibia	2018	..	*43	..	7	*37	*15
	2019	..	*54	..	5	*49	*20
	2020	..	*55	..	..	*55	*22
	2021	..	*46	..	..	*46	*18
Niger	2018	122	..	..	..	122	5
	2019	123	..	..	..	123	5
	2020	135	..	..	0	135	6
	2021	*135	..	..	..	*135	*5
Nigeria	2018	2,370	..	..	..	2,370	12
	2019	2,397	..	..	..	2,397	12
	2020	2,070	..	..	..	2,070	10
	2021	2,206	..	..	..	2,206	10
Rwanda	2018	*5	..	..	..	*5	0
	2019	*7	..	..	..	*7	*1
	2020	*4	..	..	..	*4	0
	2021	*7	..	..	..	*7	*1
Senegal	2018	..	852	..	..	852	55
	2019	..	787	..	..	787	49
	2020	..	509	..	..	509	31
	2021	..	744	..	..	744	44
South Africa	2018	206,349	3,560	76,054	..	133,855	2,334
	2019	208,402	3,626	63,405	..	148,624	2,559
	2020	199,466	444	58,975	..	140,935	2,397
	2021	184,811	613	51,376	..	134,048	2,257
United Rep. of Tanzania	2018	553	..	110	..	443	8
	2019	627	..	105	..	521	9
	2020	607	..	100	..	508	8
	2021	859	..	171	..	688	11
Zambia	2018	990	*50	*2	..	1,038	58
	2019	840	*50	*2	..	888	48
	2020	928	*49	*2	..	975	52
	2021	690	*49	*2	..	737	38
Zimbabwe	2018	3,083	52	179	510	2,446	162
	2019	2,515	25	207	67	2,266	148
	2020	2,534	0	346	328	1,860	119
	2021	2,990	2	1,149	-394	2,237	140
Asia	**2018**	**3,752,125**	**908,755**	**451,095**	**32,313**	**4,177,472**	**910**
	2019	**3,883,195**	**947,734**	**453,775**	**82,442**	**4,294,710**	**928**
	2020	**3,851,805**	**901,053**	**423,333**	**65,559**	**4,263,966**	**914**
	2021	**4,078,363**	**915,968**	**429,712**	**59,926**	**4,504,693**	**960**

Table 5

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
Afghanistan	2018	2,152	*109	1,048	..	1,213	33
	2019	1,883	*94	744	..	1,233	33
	2020	*1,803	*88	521	..	*1,369	*35
	2021	*2,236	*79	1,186	..	*1,129	*28
Armenia	2018	..	2	..	..	2	1
	2019	..	4	..	..	4	1
	2020	..	11	..	..	11	4
	2021	..	17	..	..	17	6
Azerbaijan	2018	..	1	..	..	1	0
	2019	..	1	..	0	1	0
	2020	..	1	..	..	1	0
	2021	..	0	..	0	0	0
Bangladesh	2018	659	2,424	..	..	3,083	19
	2019	575	2,696	..	..	3,271	20
	2020	579	3,397	..	..	3,976	24
	2021	538	4,331	..	..	4,870	29
Bhutan	2018	164	95	24	..	236	310
	2019	163	59	23	..	199	259
	2020	64	120	0	..	183	237
	2021	98	167	0	..	265	341
Brunei Darussalam	2018	..	..	..	..	..	..
	2019	..	219	..	..	219	501
	2020	..	771	..	..	771	1,746
	2021	..	993	..	..	993	2,230
Cambodia	2018	14	1,202	..	..	1,216	76
	2019	31	1,592	..	..	1,623	100
	2020	37	1,543	..	..	1,580	96
	2021	44	1,375	..	..	1,418	85
China	2018	2,622,819	171,719	12,957	23,843	2,757,738	1,946
	2019	2,721,262	186,142	10,587	61,496	2,835,321	1,994
	2020	2,747,172	191,190	5,630	38,297	2,894,434	2,031
	2021	2,900,990	201,712	8,071	26,079	3,068,553	2,152
China, Hong Kong SAR	2018	..	9,793	..	592	9,201	1,230
	2019	..	9,028	..	217	8,812	1,175
	2020	..	4,935	..	243	4,692	626
	2021	..	5,879	..	666	5,213	696
Cyprus	2018	..	19	..	0	20	16
	2019	..	29	..	4	24	20
	2020	..	21	..	1	20	16
	2021	..	57	..	-1	58	47
Georgia	2018	81	406	3	32	452	120
	2019	10	386	2	27	367	97
	2020	59	270	2	5	322	86
	2021	86	234	1	-2	321	85
India	2018	412,754	220,142	755	-1,905	634,045	463
	2019	410,951	229,249	621	12,988	626,591	453
	2020	395,677	189,030	1,651	15,070	567,986	407
	2021	431,971	183,769	1,113	-20,982	635,609	452
Indonesia	2018	485,069	5,704	379,789	-862	111,846	419
	2019	514,671	7,096	383,650	3,220	134,897	500
	2020	488,534	9,483	359,382	10,315	128,320	472
	2021	527,822	15,247	372,624	44,654	125,790	460

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
Iran (Islamic Rep. of)	2018	1,634	612	566	-2	1,682	20
	2019	1,439	892	503	-4	1,833	21
	2020	1,506	961	364	-1	2,104	24
	2021	1,578	912	536	-1	1,956	22
Israel	2018	56	6,557	..	-220	6,833	808
	2019	55	7,118	..	384	6,788	789
	2020	53	6,531	..	140	6,444	736
	2021	58	5,498	..	155	5,402	607
Japan	2018	764	168,184	1,456	62	167,430	1,326
	2019	614	165,738	1,591	-33	164,794	1,310
	2020	597	148,347	3,210	6	145,729	1,164
	2021	527	157,685	2,261	59	155,892	1,251
Jordan	2018	..	327	..	34	293	28
	2019	..	299	..	..	299	28
	2020	..	294	..	..	294	27
	2021	..	269	..	..	269	24
Kazakhstan	2018	69,537	1,189	17,288	-212	53,649	2,894
	2019	64,165	1,250	15,634	460	49,322	2,630
	2020	63,305	1,217	17,933	-215	46,803	2,466
	2021	65,511	1,411	18,564	288	48,071	2,504
Korea, Dem.Ppl's.Rep.	2018	21,495	128	..	..	21,623	843
	2019	24,028	124	..	..	24,153	938
	2020	22,592	112	..	..	22,704	878
	2021	18,422	94	..	..	18,517	713
Korea, Republic of	2018	754	114,014	..	-222	114,989	2,225
	2019	718	114,377	..	563	114,533	2,211
	2020	674	104,152	..	-1,011	105,838	2,041
	2021	594	105,674	..	-732	107,000	2,064
Kyrgyzstan	2018	1,241	585	433	-91	1,484	238
	2019	1,347	355	584	-38	1,156	183
	2020	1,408	353	573	29	1,159	180
	2021	1,608	582	599	65	1,526	234
Lao People's Dem. Rep.	2018	5,351	..	136	*-349	5,564	783
	2019	5,158	..	..	*196	4,962	688
	2020	5,003	..	..	*12	4,990	682
	2021	5,090	..	*327	*-283	5,045	680
Lebanon	2018	..	*236	..	..	*236	*40
	2019	..	*236	..	..	*236	*41
	2020	..	*236	..	..	*236	*42
	2021	..	*236	..	..	*236	*42
Malaysia	2018	2,389	29,800	0	305	31,884	984
	2019	3,115	28,034	4	940	30,205	921
	2020	2,682	31,763	..	-1,012	35,457	1,068
	2021	2,801	29,350	..	-437	32,589	971
Mongolia	2018	46,279	2	30,619	364	15,298	4,835
	2019	46,670	53	31,124	..	15,599	4,826
	2020	38,928	4	27,173	..	11,760	3,570
	2021	28,955	8	15,363	..	13,601	4,063
Myanmar	2018	1,225	..	..	..	1,225	23
	2019	1,482	..	..	..	1,482	28
	2020	1,630	..	..	..	1,630	31
	2021	1,204	..	..	..	1,204	22

Table 5

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
Nepal	2018	..	1,391	..	..	1,391	49
	2019	8	1,466	..	..	1,474	51
	2020	12	1,982	..	..	1,994	68
	2021	13	1,692	..	..	1,705	57
Other Asia	2018	..	55,500	25	-726	56,201	2,369
	2019	..	56,962	20	1,132	55,810	2,347
	2020	..	53,415	118	1,287	52,009	2,183
	2021	..	62,458	47	1,144	61,268	2,568
Pakistan	2018	2,874	14,892	0	..	17,766	81
	2019	3,470	15,581	1	..	19,050	85
	2020	5,409	17,894	0	..	23,303	103
	2021	5,923	17,918	1	..	23,840	103
Philippines	2018	8,864	19,684	3,797	1,541	23,209	214
	2019	10,369	20,823	7,525	-1,250	24,917	226
	2020	9,765	22,261	5,674	1,286	25,066	223
	2021	10,592	23,554	7,011	116	27,019	237
Saudi Arabia	2018	..	173	0	..	173	5
	2019	..	182	1	..	181	5
	2020	..	159	0	..	159	4
	2021	..	194	0	..	194	5
Singapore	2018	..	683	1	..	682	117
	2019	..	654	0	..	654	112
	2020	..	619	0	..	619	105
	2021	..	663	0	..	663	112
Sri Lanka	2018	..	2,166	..	82	2,084	97
	2019	..	2,389	..	164	2,224	103
	2020	..	2,544	..	-129	2,673	123
	2021	..	2,544	..	-127	2,671	123
Syrian Arab Republic	2018	..	1	..	..	1	0
	2019	..	1	..	..	1	0
	2020	..	1	..	..	1	0
	2021	..	1	..	..	1	0
Tajikistan	2018	1,206	5	27	..	1,183	130
	2019	1,283	17	12	..	1,289	138
	2020	1,342	18	34	..	1,326	139
	2021	1,341	61	22	..	1,381	142
Thailand	2018	5,357	23,276	76	5,939	22,619	318
	2019	5,046	20,394	53	2,045	23,342	327
	2020	4,733	21,433	57	*4,027	22,083	309
	2021	4,647	21,599	136	*7,064	19,046	266
Türkiye	2018	23,637	34,970	184	-45	58,468	706
	2019	24,898	34,726	183	-514	59,955	718
	2020	21,437	36,410	268	400	57,178	680
	2021	24,503	34,238	401	-428	58,767	693
United Arab Emirates	2018	..	2,744	0	..	2,743	300
	2019	..	2,539	1	..	2,539	276
	2020	..	3,048	1	..	3,048	328
	2021	..	3,704	..	..	3,704	395
Uzbekistan	2018	2,111	757	0	-648	3,517	108
	2019	2,056	852	0	-118	3,025	92
	2020	2,102	1,660	1	-437	4,198	125
	2021	2,565	1,380	0	209	3,736	110

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
Viet Nam	2018	33,637	19,159	1,911	*4,800	46,086	486
	2019	37,726	35,971	914	564	72,219	754
	2020	34,700	44,684	738	-2,753	81,398	842
	2021	38,646	30,287	1,450	2,423	65,060	668
Yemen	2018	..	103	..	..	103	3
	2019	..	104	..	..	104	3
	2020	..	95	..	..	95	3
	2021	..	94	..	..	94	3
Europe	**2018**	**581,851**	**207,806**	**223,013**	**6,089**	**560,555**	**750**
	2019	**554,041**	**178,048**	**213,258**	**13,078**	**505,754**	**676**
	2020	**496,103**	**137,448**	**207,649**	**-13,587**	**439,489**	**587**
	2021	**522,567**	**157,226**	**209,779**	**-14,719**	**484,734**	**648**
Albania	2018	68	111	1	..	177	62
	2019	22	100	..	..	122	42
	2020	99	116	..	..	215	75
	2021	187	135	..	..	322	113
Andorra	2018	..	0	..	..	0	*1
	2019	..	0	..	..	0	*1
	2020	..	0	..	..	0	*1
	2021	..	0	..	..	0	*1
Austria	2018	..	3,874	42	-98	3,930	445
	2019	..	3,932	36	-137	4,033	454
	2020	..	3,491	28	-80	3,542	398
	2021	..	3,685	42	8	3,635	407
Belarus	2018	777	1,392	746	181	1,242	128
	2019	767	3,430	2,773	110	1,314	136
	2020	533	1,940	1,347	-89	1,216	126
	2021	648	1,632	1,060	..	1,220	127
Belgium	2018	114	4,616	76	234	4,420	386
	2019	118	4,534	126	142	4,383	381
	2020	121	3,595	227	117	3,372	292
	2021	53	3,459	105	-241	3,647	314
Bosnia and Herzegovina	2018	5,227	1,520	621	83	6,043	1,777
	2019	4,861	1,606	502	382	5,583	1,661
	2020	4,755	1,295	412	-86	5,724	1,725
	2021	4,459	1,559	463	-117	5,671	1,734
Bulgaria	2018	7,535	842	10	260	8,107	1,139
	2019	6,971	573	12	-10	7,542	1,069
	2020	5,555	581	7	19	6,110	876
	2021	6,792	786	2	12	7,563	1,098
Croatia	2018	..	478	..	-44	522	125
	2019	..	641	..	40	602	146
	2020	..	547	..	31	516	126
	2021	..	598	..	4	593	146
Czechia	2018	20,999	4,151	2,843	-254	22,560	2,142
	2019	19,194	4,068	2,283	610	20,368	1,933
	2020	14,584	3,917	1,602	-651	17,550	1,666
	2021	15,042	4,910	2,265	-776	18,463	1,757
Denmark	2018	..	2,520	15	9	2,495	433
	2019	..	1,957	37	621	1,299	224
	2020	..	920	159	-357	1,118	192
	2021	..	671	497	-1,399	1,573	269

Table 5

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
Estonia	2018	6,148	33	13	122	6,047	4,573
	2019	4,553	41	20	169	4,405	3,320
	2020	3,599	3	18	11	3,572	2,687
	2021	3,470	5	17	-419	3,877	2,918
Finland	2018	2,588	4,077	105	552	6,008	1,089
	2019	1,499	3,251	200	-465	5,014	908
	2020	826	2,581	132	-858	4,132	747
	2021	349	2,333	168	-1,826	4,340	784
France	2018	..	13,234	48	128	13,058	196
	2019	..	10,430	6	-78	10,502	157
	2020	..	7,302	12	-292	7,582	113
	2021	..	8,888	6	-3,272	12,153	182
Germany	2018	53,737	43,257	2,082	-3,546	98,459	1,188
	2019	40,598	40,254	2,132	-1,871	80,590	969
	2020	33,410	30,128	2,012	-2,220	63,747	765
	2021	39,349	39,212	2,405	138	76,019	911
Greece	2018	6,107	335	..	-78	6,520	613
	2019	4,411	290	..	135	4,566	432
	2020	2,329	267	0	-20	2,616	249
	2021	2,056	235	..	-154	2,444	234
Hungary	2018	1,816	1,796	303	77	3,232	331
	2019	1,419	1,524	318	-16	2,641	270
	2020	1,332	1,318	258	-23	2,416	248
	2021	1,104	1,235	470	-104	1,974	203
Iceland	2018	..	161	..	..	161	456
	2019	..	152	..	..	152	421
	2020	..	133	..	..	133	362
	2021	..	184	..	..	184	496
Ireland	2018	1,145	1,251	5	327	2,064	427
	2019	558	382	4	-560	1,496	305
	2020	182	352	4	-939	1,469	297
	2021	182	1,385	2	-248	1,814	364
Italy	2018	..	12,683	357	131	12,196	204
	2019	..	9,411	283	-130	9,258	155
	2020	..	7,070	295	-517	7,292	122
	2021	..	7,935	254	-237	7,918	134
Kosovo	2018	2,039	3	2	-8	2,049	1,198
	2019	2,146	3	7	-7	2,149	1,274
	2020	2,231	9	2	33	2,205	1,320
	2021	2,272	24	71	-14	2,239	1,347
Latvia	2018	2	67	9	-8	68	35
	2019	3	66	4	7	58	30
	2020	0	33	4	-5	34	18
	2021	1	30	7	-3	26	14
Lithuania	2018	11	269	1	-12	291	101
	2019	12	281	1	18	274	96
	2020	7	182	0	-25	213	76
	2021	7	227	1	-21	254	91
Luxembourg	2018	..	60	..	1	60	98
	2019	..	61	..	-5	65	105
	2020	..	62	..	7	55	87
	2021	..	59	..	-1	60	94

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
Montenegro	2018	523	2	31	-21	515	816
	2019	566	2	39	2	526	835
	2020	572	2	28	-1	547	870
	2021	530	..	51	-1	480	765
Netherlands (Kingd. of the)	2018	..	11,859	47	-15	11,827	684
	2019	..	9,460	83	201	9,176	528
	2020	..	5,665	266	-476	5,875	337
	2021	..	8,111	38	-40	8,114	464
North Macedonia	2018	1,254	173	0	-66	1,491	706
	2019	1,229	175	0	-64	1,468	694
	2020	1,128	115	0	-8	1,251	593
	2021	787	167	0	31	923	439
Norway	2018	144	1,120	108	-20	1,176	221
	2019	116	1,111	76	7	1,145	214
	2020	66	1,129	44	-27	1,177	219
	2021	116	1,160	78	-3	1,200	222
Poland	2018	68,685	16,161	10,685	2,869	71,292	1,851
	2019	63,729	14,384	9,827	4,694	63,591	1,652
	2020	57,457	11,054	10,130	-782	59,164	1,540
	2021	60,288	10,763	12,587	-7,259	65,723	1,716
Portugal	2018	..	3,810	..	-42	3,852	374
	2019	..	2,186	..	396	1,790	174
	2020	..	16	85	-1,060	992	96
	2021	..	13	..	-323	336	33
Republic of Moldova	2018	..	117	..	6	111	35
	2019	..	125	..	-14	138	45
	2020	..	110	..	2	108	35
	2021	..	104	..	-23	127	42
Romania	2018	5,740	1,287	2	-194	7,220	368
	2019	5,611	1,562	0	101	7,071	362
	2020	3,703	1,118	1	-116	4,936	254
	2021	4,297	1,396	31	-103	5,764	298
Russian Federation	2018	361,269	*24,127	*203,710	6,648	175,039	1,202
	2019	360,965	*20,522	192,147	7,013	182,326	1,251
	2020	331,861	20,817	187,410	-2,695	167,963	1,153
	2021	357,340	20,263	187,178	*4,657	185,768	1,280
Serbia	2018	9,442	1,114	22	-214	10,749	1,446
	2019	9,751	1,148	23	131	10,745	1,452
	2020	10,293	755	19	-223	11,252	1,529
	2021	8,975	962	10	-39	9,967	1,366
Slovakia	2018	522	4,507	56	141	4,831	887
	2019	508	3,716	119	208	3,897	714
	2020	349	2,883	38	-103	3,296	604
	2021	389	3,617	54	-104	4,056	745
Slovenia	2018	1,288	306	..	-22	1,616	767
	2019	1,258	312	..	39	1,532	725
	2020	1,236	262	..	27	1,471	695
	2021	1,023	147	..	-136	1,306	616
Spain	2018	1,261	13,617	432	-1,371	15,817	338
	2019	..	7,907	1,398	-712	7,220	153
	2020	..	4,216	1,785	-1,847	4,278	90
	2021	..	5,290	635	251	4,403	93

Table 5

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
Sweden	2018	228	2,932	9	11	3,141	309
	2019	154	2,813	47	81	2,839	277
	2020	84	2,146	22	11	2,197	212
	2021	87	2,258	23	-142	2,463	235
Switzerland	2018	..	115	0	-31	145	17
	2019	..	114	0	-16	130	15
	2020	..	114	0	-11	125	14
	2021	..	127	0	1	126	15
Ukraine	2018	20,801	19,723	78	141	40,304	907
	2019	20,652	18,912	64	2,138	37,362	845
	2020	18,218	15,780	59	1,727	32,212	734
	2021	11,765	18,213	175	..	29,803	685
United Kingdom	2018	2,379	10,105	554	212	11,719	176
	2019	2,372	6,615	688	-83	8,382	126
	2020	1,571	5,424	1,241	-2,062	7,816	117
	2021	999	5,452	1,083	-2,816	8,185	122
Latin America & Carib.	**2018**	**91,460**	**45,184**	**80,810**	**-6,514**	**62,349**	**97**
	2019	**94,427**	**44,902**	**73,367**	**2,912**	**63,050**	**98**
	2020	**59,311**	**37,809**	**69,699**	**-27,431**	**54,852**	**84**
	2021	**63,425**	**43,886**	**57,454**	**-6,050**	**55,906**	**85**
Argentina	2018	51	1,666	2	72	1,642	37
	2019	88	955	50	186	807	18
	2020	17	1,199	..	..	1,216	27
	2021	17	1,683	..	..	1,700	38
Bahamas	2018	..	*1	..	..	*1	*4
	2019	..	*1	..	..	*1	*3
	2020	..	*1	..	..	*1	*3
	2021	..	*1	..	..	*1	*3
Bolivia (Plur. State of)	2018	..	7	..	..	7	1
	2019	..	8	..	..	8	1
	2020	..	3	..	..	3	0
	2021	..	8	..	..	8	1
Brazil	2018	2,757	21,539	..	758	23,539	112
	2019	3,090	19,056	..	75	22,070	104
	2020	2,978	16,641	..	-319	19,939	94
	2021	3,794	20,603	..	-35	24,432	114
Chile	2018	1,286	9,365	272	176	10,202	546
	2019	813	10,730	53	-201	11,690	614
	2020	273	9,062	131	-292	9,496	492
	2021	24	9,328	61	208	9,084	466
Colombia	2018	78,263	0	79,746	-6,653	5,170	105
	2019	82,767	0	72,349	3,576	6,842	136
	2020	48,901	0	68,868	-26,291	6,324	124
	2021	54,807	..	57,179	-6,749	4,377	85
Costa Rica	2018	..	0	..	..	0	0
	2019	..	0	..	..	0	0
	2020	..	0	..	..	0	0
	2021	..	18	..	..	18	4
Cuba	2018	..	5	..	..	5	0
	2019	..	0	..	..	0	0
	2020	..	2	..	..	2	0
	2021	..	5	..	..	5	0

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
Dominican Republic	2018	..	1,112	..	21	1,090	101
	2019	..	1,062	..	-20	1,083	100
	2020	..	2,465	..	8	2,457	223
	2021	..	2,317	..	..	2,317	208
El Salvador	2018	..	1	..	..	1	0
	2019	..	1	..	..	1	0
	2020	..	0	..	..	0	0
	2021	..	1	..	..	1	0
Falkland Is. (Malvinas)	2018	2	..	..	..	2	445
	2019	2	..	..	..	2	438
	2020	1	..	..	..	1	228
	2021	1	..	..	..	1	227
Guatemala	2018	..	1,780	..	39	1,741	103
	2019	..	2,504	..	805	1,700	99
	2020	..	1,085	..	-13	1,097	63
	2021	..	2,203	..	799	1,405	80
Guyana	2018	..	10	0	*2	9	11
	2019	..	30	..	*3	27	34
	2020	..	3	..	0	3	3
	2021	..	0	..	*-1	*1	*2
Jamaica	2018	..	93	..	17	77	27
	2019	..	89	..	-15	104	37
	2020	..	89	..	-15	104	37
	2021	..	89	..	-15	104	37
Mexico	2018	8,593	8,924	48	-104	17,573	142
	2019	7,071	9,241	5	-540	16,847	135
	2020	6,276	6,070	3	-248	12,591	100
	2021	4,407	6,511	4	35	10,880	86
Panama	2018	..	268	..	75	193	46
	2019	..	743	..	-47	789	187
	2020	..	886	..	37	849	198
	2021	..	800	..	10	790	182
Paraguay	2018	..	5	..	..	5	1
	2019	..	2	..	..	2	0
	2020	..	1	..	..	1	0
	2021	..	1	..	..	1	0
Peru	2018	199	408	581	-917	944	29
	2019	170	480	591	-911	970	30
	2020	115	301	21	-298	692	21
	2021	110	317	21	-300	706	21
Venezuela (Bolivar. Rep.)	2018	310	..	162	..	148	5
	2019	426	..	319	..	107	4
	2020	751	..	676	..	75	3
	2021	264	..	189	..	76	3
Northern America	**2018**	**568,933**	**12,295**	**123,679**	**-22,742**	**480,290**	**1,301**
	2019	**533,779**	**13,491**	**108,548**	**26,987**	**411,735**	**1,107**
	2020	**403,010**	**10,442**	**84,677**	**-3,440**	**332,214**	**888**
	2021	**436,561**	**10,789**	**99,294**	**-30,480**	**378,536**	**1,009**
Bermuda	2018	..	0	..	..	0	1
	2019	..	0	..	..	0	1
	2020	..	0	..	..	0	1
	2021	..	0	..	..	0	1

Table 5

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
Canada	2018	41,806	7,832	27,556	1,556	20,526	554
	2019	39,655	8,552	30,495	201	17,511	467
	2020	34,924	6,658	27,244	370	13,968	369
	2021	35,862	6,741	27,213	885	14,504	380
United States	2018	527,126	4,463	96,123	-24,297	459,763	1,384
	2019	494,124	4,939	78,053	26,786	394,224	1,179
	2020	368,086	3,783	57,434	-3,810	318,246	947
	2021	400,699	4,048	72,081	-31,365	364,031	1,080
Oceania	**2018**	**423,099**	**1,989**	**352,630**	**2,696**	**69,763**	**1,640**
	2019	**432,394**	**2,485**	**362,952**	**815**	**71,111**	**1,643**
	2020	**423,260**	**2,519**	**358,761**	**1,963**	**65,056**	**1,481**
	2021	**393,566**	**2,439**	**336,600**	**-2,143**	**61,548**	**1,383**
Australia	2018	420,522	435	351,386	2,551	67,020	2,683
	2019	429,801	581	361,528	948	67,907	2,678
	2020	420,884	669	357,653	2,049	61,851	2,409
	2021	391,282	424	335,403	-2,288	58,591	2,260
New Caledonia	2018	..	1,123	..	61	1,062	3,728
	2019	..	1,029	..	-27	1,057	3,702
	2020	..	992	..	49	943	3,292
	2021	..	765	..	-31	797	2,768
New Zealand	2018	2,577	432	1,244	84	1,680	347
	2019	2,593	874	1,424	-105	2,148	433
	2020	2,376	858	1,108	-135	2,261	447
	2021	2,284	1,250	1,197	176	2,161	421

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 15: Production of hard coal by region, 1990-2021

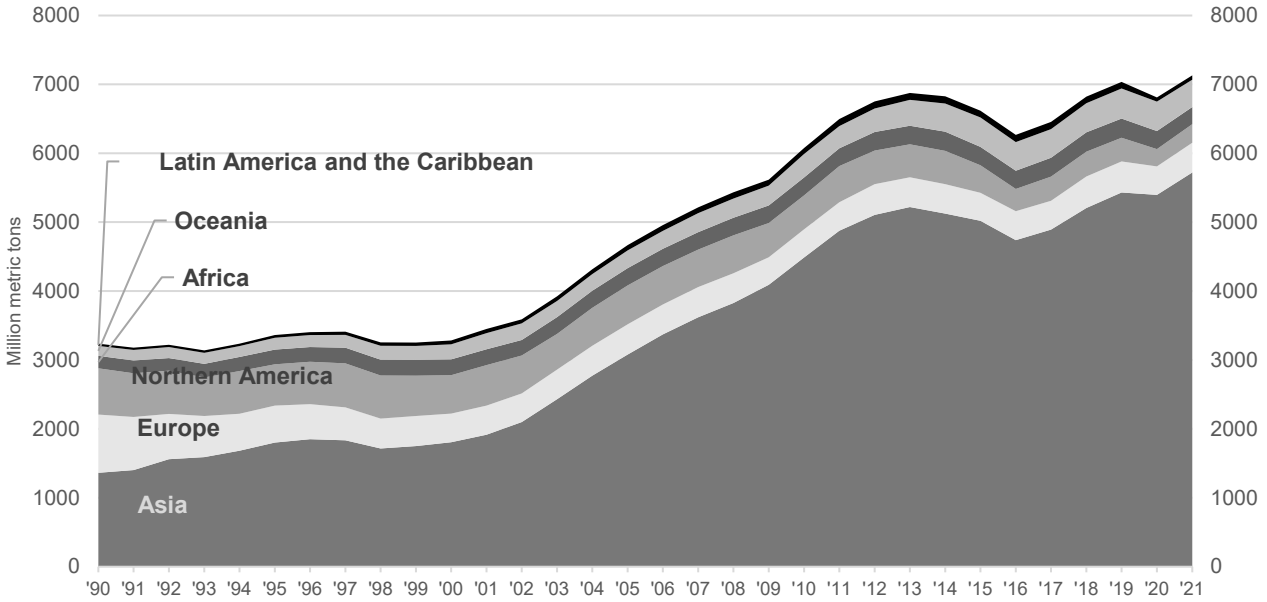


Figure 16: Major hard coal producing countries, 2021

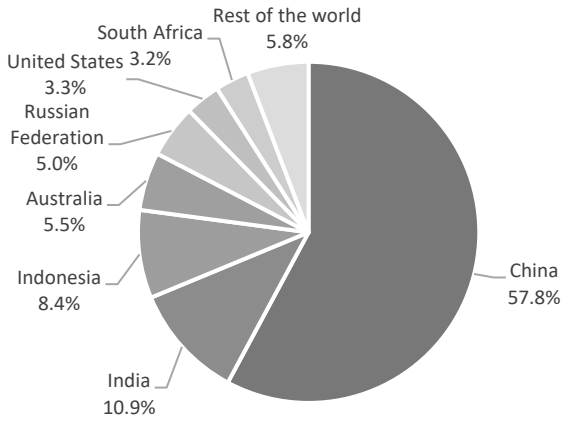


Figure 17: Major hard coal consuming countries, 2021

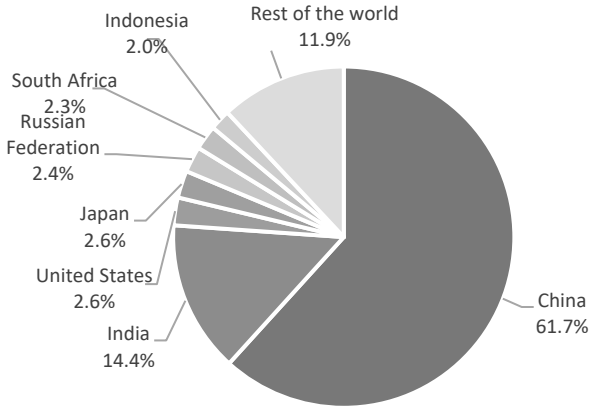


Table 6

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	**2018**	**6,822,440**	**1,355,581**	**1,431,388**	**26,040**	**6,720,593**	**875**
	2019	**7,034,179**	**1,371,520**	**1,412,892**	**158,194**	**6,834,613**	**880**
	2020	**6,810,004**	**1,270,401**	**1,308,913**	**51,677**	**6,719,815**	**857**
	2021	**7,132,063**	**1,313,781**	**1,281,652**	**26,911**	**7,137,281**	**902**
Africa	**2018**	**281,877**	**22,000**	**110,233**	**2,425**	**191,219**	**148**
	2019	**278,404**	**22,638**	**90,029**	**528**	**210,485**	**159**
	2020	**263,764**	**16,452**	**81,097**	**1,033**	**198,087**	**146**
	2021	**249,795**	**19,420**	**75,257**	**524**	**193,433**	**139**
Algeria	2018	..	15	..	5	10	0
	2019	..	10	..	-11	21	0
	2020	..	9	..	1	8	0
	2021	..	15	..	-4	18	0
Benin	2018	..	120	..	120	0	0
	2019	..	102	..	..	102	8
	2020	..	110	..	..	110	9
	2021	..	158	..	32	126	10
Botswana	2018	2,482	..	317	..	2,165	883
	2019	2,111	..	304	..	1,807	723
	2020	1,888	..	517	..	1,371	538
	2021	2,121	..	581	..	1,540	595
Burundi	2018	..	0	..	..	0	0
	2019	..	10	..	..	10	1
	2020	..	5	..	..	5	0
	2021	..	10	..	..	10	1
Egypt	2018	..	5,403	..	..	5,403	52
	2019	..	4,513	..	..	4,513	43
	2020	..	1,775	..	..	1,775	17
	2021	..	3,126	..	..	3,126	29
Eswatini	2018	129	61	129	..	61	53
	2019	117	76	117	..	76	65
	2020	*115	*74	*115	..	*74	*63
	2021	*116	*75	*116	..	*75	*63
Ethiopia	2018	2	418	..	..	420	4
	2019	2	453	..	..	455	4
	2020	7	330	..	..	337	3
	2021	8	350	..	..	358	3
Kenya	2018	..	693	..	..	693	14
	2019	..	612	..	..	612	12
	2020	..	822	..	..	822	16
	2021	..	954	..	..	954	18
Lesotho	2018	..	*634	..	..	*634	*288
	2019	..	*630	..	..	*630	*283
	2020	..	*580	..	..	*580	*257
	2021	..	*1,027	..	..	*1,027	*450
Madagascar	2018	..	451	..	..	451	17
	2019	..	511	..	..	511	19
	2020	..	*501	..	..	*501	*18
	2021	..	*516	..	..	*516	*18
Malawi	2018	50	48	10	..	88	5
	2019	55	36	1	..	90	5
	2020	55	28	0	..	83	4
	2021	30	2	..	..	32	2

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	2018	..	1,283	..	561	722	557
	2019	..	1,173	..	509	664	512
	2020	..	1,189	..	529	661	509
	2021	..	764	..	27	737	567
Morocco	2018	..	8,459	..	657	7,803	214
	2019	..	10,113	..	15	10,099	274
	2020	..	9,965	..	-171	10,136	272
	2021	..	10,941	..	310	10,630	282
Mozambique	2018	16,095	..	15,549	520	26	1
	2019	10,878	..	10,923	-64	19	1
	2020	7,449	..	7,100	317	31	1
	2021	11,080	..	10,484	585	11	0
Namibia	2018	..	*56	..	9	*47	*20
	2019	..	*70	..	6	*64	*26
	2020	..	*71	..	..	*71	*28
	2021	..	*60	..	..	*60	*24
Niger	2018	224	..	..	..	224	10
	2019	226	..	..	..	226	10
	2020	247	..	..	1	246	10
	2021	*248	..	..	..	*248	*10
Nigeria	2018	2,692	..	..	..	2,692	14
	2019	2,723	..	..	..	2,723	13
	2020	2,351	..	..	..	2,351	11
	2021	2,506	..	..	..	2,506	12
Senegal	2018	..	963	..	..	963	62
	2019	..	890	..	..	890	56
	2020	..	575	..	..	575	35
	2021	..	841	..	..	841	50
South Africa	2018	255,054	3,366	94,005	..	164,415	2,867
	2019	257,853	3,429	78,450	..	182,832	3,148
	2020	247,110	419	73,061	..	174,469	2,967
	2021	228,645	579	63,561	..	165,663	2,789
United Rep. of Tanzania	2018	628	..	125	..	503	9
	2019	712	..	120	..	592	10
	2020	690	..	113	..	577	9
	2021	976	..	194	..	782	12
Zambia	2018	1,174	..	..	..	1,174	66
	2019	996	..	..	..	996	54
	2020	1,101	..	..	..	1,101	58
	2021	819	..	..	..	819	42
Zimbabwe	2018	3,348	30	98	554	2,726	181
	2019	2,730	11	115	73	2,553	166
	2020	2,751	0	191	356	2,204	141
	2021	3,246	3	321	-428	3,355	210
Asia	**2018**	**5,204,329**	**1,060,119**	**495,018**	**33,122**	**5,736,308**	**1,250**
	2019	**5,430,481**	**1,108,347**	**523,802**	**118,535**	**5,896,491**	**1,274**
	2020	**5,396,152**	**1,069,273**	**468,292**	**95,492**	**5,901,640**	**1,265**
	2021	**5,721,726**	**1,083,052**	**471,793**	**62,268**	**6,270,717**	**1,336**
Afghanistan	2018	2,445	..	1,117	..	1,328	36
	2019	2,139	1	772	..	1,368	36
	2020	*2,048	2	516	..	*1,534	*39
	2021	*2,540	5	1,271	..	*1,274	*32

Table 6

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
Armenia	2018	..	2	..	..	2	1
	2019	..	4	..	..	4	2
	2020	..	12	..	..	12	4
	2021	..	18	..	..	18	7
Azerbaijan	2018	..	1	..	..	1	0
	2019	..	1	..	0	1	0
	2020	..	1	..	..	1	0
	2021	..	0	..	0	0	0
Bangladesh	2018	923	3,395	..	..	4,318	26
	2019	806	3,776	..	..	4,582	28
	2020	811	4,758	..	..	5,569	33
	2021	754	6,066	..	..	6,820	40
Bhutan	2018	187	44	27	..	204	268
	2019	185	26	26	..	185	242
	2020	73	69	0	..	141	183
	2021	112	80	0	..	192	247
China	2018	3,697,736	282,098	4,893	26,418	3,948,523	2,786
	2019	3,846,330	299,770	5,995	84,547	4,055,558	2,852
	2020	3,901,580	303,610	3,163	56,749	4,145,278	2,909
	2021	4,125,834	323,274	2,584	40,313	4,406,212	3,090
China, Hong Kong SAR	2018	..	10,884	..	658	10,226	1,367
	2019	..	10,035	..	241	9,794	1,307
	2020	..	5,485	..	270	5,215	695
	2021	..	6,534	..	740	5,794	773
Cyprus	2018	..	22	..	-1	23	19
	2019	..	32	..	5	28	23
	2020	..	24	..	1	22	18
	2021	..	65	..	-2	66	53
Georgia	2018	..	258	..	32	226	60
	2019	..	254	..	9	245	65
	2020	..	197	..	16	182	48
	2021	..	100	..	-7	107	28
India	2018	728,720	235,240	1,313	-4,401	967,048	706
	2019	730,873	248,537	1,047	23,791	954,572	690
	2020	716,084	215,251	2,945	27,753	900,637	645
	2021	778,190	208,934	1,169	-40,171	1,026,126	729
Indonesia	2018	548,000	5,358	429,061	-1,030	125,327	469
	2019	616,167	6,770	459,136	3,774	160,027	594
	2020	552,638	9,021	406,230	11,668	143,761	529
	2021	595,840	15,066	420,460	50,409	140,037	512
Iran (Islamic Rep. of)	2018	1,713	308	229	..	1,791	21
	2019	1,508	593	163	..	1,938	22
	2020	1,578	686	18	..	2,246	26
	2021	1,652	627	197	..	2,082	24
Israel	2018	..	7,721	..	-259	7,980	944
	2019	..	8,417	..	454	7,963	925
	2020	..	7,743	..	166	7,578	865
	2021	..	6,571	..	185	6,387	718
Japan	2018	964	188,548	32	..	189,480	1,501
	2019	775	186,892	4	..	187,664	1,492
	2020	748	173,039	4	..	173,783	1,388
	2021	659	183,952	6	..	184,606	1,481

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
Jordan	2018	..	292	..	37	255	24
	2019	..	260	..	..	260	24
	2020	..	256	..	..	256	23
	2021	..	226	..	..	226	20
Kazakhstan	2018	101,086	441	23,877	-448	78,097	4,213
	2019	98,593	288	22,615	786	75,480	4,025
	2020	97,924	297	25,527	-145	72,839	3,838
	2021	102,638	426	27,211	60	75,793	3,948
Korea, Dem.Ppl's.Rep.	2018	22,716	..	..	..	22,716	886
	2019	25,394	19	..	..	25,413	987
	2020	23,876	..	..	..	23,876	923
	2021	19,603	..	..	..	19,603	755
Korea, Republic of	2018	1,140	125,750	..	-335	127,225	2,462
	2019	1,086	127,380	..	851	127,615	2,463
	2020	1,019	115,485	..	-1,529	118,033	2,277
	2021	898	117,303	..	-1,107	119,308	2,302
Kyrgyzstan	2018	324	819	394	2	747	120
	2019	329	489	568	-39	289	46
	2020	522	495	589	62	366	57
	2021	570	821	512	88	791	121
Lao People's Dem. Rep.	2018	143	..	..	..	143	20
	2019	161	..	..	..	161	22
	2020	320	..	..	..	320	44
	2021	699	..	*372	..	327	44
Lebanon	2018	..	*250	..	..	*250	*42
	2019	..	*250	..	..	*250	*43
	2020	..	*250	..	..	*250	*44
	2021	..	*250	..	..	*250	*45
Malaysia	2018	2,653	32,904	0	339	35,218	1,087
	2019	3,459	29,655	4	1,044	32,067	978
	2020	2,978	33,653	..	-1,123	37,754	1,137
	2021	3,111	30,530	..	-485	34,126	1,016
Mongolia	2018	44,386	2	31,472	388	12,528	3,960
	2019	44,822	54	32,192	..	12,685	3,924
	2020	36,740	5	28,127	..	8,618	2,616
	2021	26,204	9	15,708	..	10,504	3,138
Myanmar	2018	1,544	..	..	..	1,544	29
	2019	1,867	..	..	..	1,867	35
	2020	2,054	..	..	..	2,054	38
	2021	1,368	..	..	..	1,368	25
Nepal	2018	..	1,623	..	..	1,623	57
	2019	9	1,710	..	..	1,720	60
	2020	14	2,313	..	..	2,327	79
	2021	15	1,975	..	..	1,989	66
Other Asia	2018	..	54,947	1	-592	55,538	2,341
	2019	..	55,582	1	1,056	54,524	2,293
	2020	..	51,605	1	545	51,059	2,143
	2021	..	56,385	1	1,393	54,991	2,305
Pakistan	2018	4,478	15,686	0	..	20,164	92
	2019	5,407	16,422	0	..	21,828	98
	2020	8,428	18,850	..	..	27,278	120
	2021	9,229	18,103	..	..	27,332	118

Table 6

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
Saudi Arabia	2018	..	88	0	..	87	2
	2019	..	109	0	..	109	3
	2020	..	65	0	..	64	2
	2021	..	74	0	..	74	2
Singapore	2018	..	776	1	..	775	133
	2019	..	743	0	..	743	127
	2020	..	703	0	..	703	119
	2021	..	753	0	..	753	127
Sri Lanka	2018	..	2,166	..	82	2,084	97
	2019	..	2,389	..	164	2,224	103
	2020	..	2,544	..	-129	2,673	123
	2021	..	2,544	..	-127	2,671	123
Tajikistan	2018	1,842	7	43	..	1,805	198
	2019	1,964	19	18	..	1,965	210
	2020	2,011	5	53	..	1,963	206
	2021	1,992	96	34	..	2,054	211
Thailand	2018	..	25,739	84	6,448	19,207	270
	2019	..	22,463	59	2,176	20,228	284
	2020	..	23,734	63	*4,549	19,122	268
	2021	..	23,793	151	*7,902	15,740	220
Türkiye	2018	1,102	38,329	85	-200	39,546	478
	2019	1,206	38,141	57	-997	40,288	483
	2020	1,066	40,106	144	102	40,927	486
	2021	1,236	37,189	304	40	38,081	449
United Arab Emirates	2018	..	2,870	0	..	2,870	314
	2019	..	2,671	1	..	2,670	290
	2020	..	3,211	0	..	3,211	346
	2021	..	3,967	..	..	3,967	424
Uzbekistan	2018	181	580	..	-17	778	24
	2019	242	707	..	-30	979	30
	2020	264	880	1	-21	1,163	35
	2021	275	918	1	7	1,185	35
Viet Nam	2018	42,047	22,856	2,388	*6,000	56,515	595
	2019	47,158	43,770	1,143	705	89,080	930
	2020	43,375	54,812	910	-3,441	100,718	1,042
	2021	48,308	36,291	1,812	3,029	79,758	818
Yemen	2018	..	117	..	..	117	4
	2019	..	118	..	..	118	4
	2020	..	108	..	..	108	3
	2021	..	107	..	..	107	3
Europe	**2018**	**459,146**	**216,532**	**228,158**	**5,595**	**441,924**	**591**
	2019	**451,099**	**181,751**	**217,447**	**13,974**	**401,429**	**536**
	2020	**413,648**	**136,574**	**210,836**	**-10,646**	**350,032**	**468**
	2021	**431,466**	**155,479**	**210,404**	**-9,735**	**386,276**	**517**
Albania	2018	98	129	2	..	224	78
	2019	31	116	..	..	148	51
	2020	127	137	..	..	265	92
	2021	241	160	..	..	401	140
Andorra	2018	..	0	..	..	0	*1
	2019	..	0	..	..	0	*2
	2020	..	0	..	..	0	*1
	2021	..	0	..	..	0	*2

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
Austria	2018	..	3,087	3	-144	3,228	365
	2019	..	3,078	0	-50	3,128	352
	2020	..	2,709	0	-129	2,838	319
	2021	..	2,771	0	21	2,750	308
Belarus	2018	..	1,652	854	153	645	67
	2019	..	4,015	3,243	23	749	77
	2020	..	2,261	1,574	-56	743	77
	2021	..	1,892	1,213	..	679	71
Belgium	2018	16	3,832	46	232	3,570	312
	2019	13	3,707	85	120	3,515	305
	2020	11	3,063	91	119	2,863	248
	2021	11	2,938	61	-196	3,084	266
Bosnia and Herzegovina	2018	..	1,457	..	0	1,457	429
	2019	..	1,531	..	180	1,351	402
	2020	..	1,261	..	12	1,249	376
	2021	..	1,563	..	62	1,501	459
Bulgaria	2018	334	836	..	166	1,004	141
	2019	303	558	..	-96	958	136
	2020	245	591	..	8	828	119
	2021	80	858	..	80	858	125
Croatia	2018	..	499	..	-50	549	132
	2019	..	710	..	51	658	159
	2020	..	593	..	37	555	136
	2021	..	670	..	5	665	164
Czechia	2018	4,562	3,809	1,954	-140	6,557	622
	2019	3,540	3,713	1,435	357	5,463	518
	2020	2,200	3,632	846	-302	5,289	502
	2021	2,260	4,614	1,447	-528	5,955	567
Denmark	2018	..	2,756	17	8	2,731	474
	2019	..	2,387	46	762	1,579	273
	2020	..	1,111	194	-436	1,353	232
	2021	..	774	583	-1,643	1,834	313
Estonia	2018	..	44	..	-6	50	38
	2019	..	49	..	-2	50	38
	2020	..	4	..	-9	12	9
	2021	..	5	..	2	4	3
Finland	2018	..	4,109	..	-32	4,141	751
	2019	..	3,156	..	-145	3,301	598
	2020	..	2,432	..	-294	2,726	493
	2021	..	2,217	113	-891	2,995	541
France	2018	..	13,364	..	181	13,183	198
	2019	..	10,239	..	-116	10,355	155
	2020	..	7,142	..	-322	7,464	112
	2021	..	7,775	..	-1,057	8,832	132
Germany	2018	2,761	44,816	202	-3,322	50,697	612
	2019	0	40,993	462	-1,979	42,510	511
	2020	..	29,573	526	-2,151	31,198	374
	2021	..	38,418	919	126	37,373	448
Greece	2018	..	379	..	-55	434	41
	2019	..	327	..	15	311	29
	2020	..	304	..	39	266	25
	2021	..	266	..	-21	287	28

Table 6

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
Hungary	2018	..	1,542	..	41	1,501	154
	2019	..	1,366	..	-16	1,382	141
	2020	..	1,214	..	-39	1,253	129
	2021	..	1,132	..	-17	1,149	118
Iceland	2018	..	149	..	..	149	421
	2019	..	150	..	..	150	415
	2020	..	123	..	..	123	336
	2021	..	179	..	..	179	484
Ireland	2018	..	1,405	..	154	1,250	259
	2019	..	401	..	-187	588	120
	2020	..	389	..	-297	686	139
	2021	..	1,560	..	81	1,479	297
Italy	2018	..	14,149	3	170	13,976	233
	2019	..	10,261	..	-165	10,426	174
	2020	..	7,179	..	-545	7,724	130
	2021	..	7,913	..	-246	8,159	138
Kosovo	2018	..	1	..	..	1	1
	2019	..	1	..	..	1	0
	2020	..	5	0	..	5	3
	2021	..	15	1	..	14	9
Latvia	2018	..	82	10	-7	78	40
	2019	..	79	5	7	67	35
	2020	..	40	4	-4	39	21
	2021	..	37	9	-2	30	16
Lithuania	2018	..	262	..	-3	265	92
	2019	..	285	..	24	261	92
	2020	..	176	..	-27	203	72
	2021	..	225	..	-22	247	89
Luxembourg	2018	..	63	..	1	63	103
	2019	..	64	..	-5	70	112
	2020	..	65	..	8	57	91
	2021	..	59	..	-2	61	96
Netherlands (Kingd. of the)	2018	..	13,016	..	-58	13,074	756
	2019	..	10,359	..	187	10,172	586
	2020	..	6,035	..	-458	6,493	372
	2021	..	8,848	..	-127	8,975	513
North Macedonia	2018	..	81	0	-2	84	40
	2019	..	81	0	-2	84	40
	2020	..	1	0	-7	8	4
	2021	..	46	0	6	39	19
Norway	2018	150	746	113	-10	793	149
	2019	121	794	79	7	829	155
	2020	69	849	46	-26	898	167
	2021	121	882	82	-6	928	172
Poland	2018	63,857	19,195	4,857	3,360	74,834	1,943
	2019	62,081	16,623	4,373	5,558	68,774	1,787
	2020	54,714	12,771	4,575	-566	63,476	1,652
	2021	55,285	12,382	6,429	-8,744	69,982	1,827
Portugal	2018	..	4,497	..	-50	4,546	442
	2019	..	2,575	..	469	2,106	205
	2020	..	5	82	-1,026	949	92
	2021	..	3	..	-315	318	31

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
Republic of Moldova	2018	..	138	..	7	131	42
	2019	..	147	..	-16	163	52
	2020	..	133	..	3	130	42
	2021	..	125	..	-28	153	50
Romania	2018	..	186	..	6	180	9
	2019	..	161	..	-4	164	8
	2020	..	129	..	8	121	6
	2021	..	124	..	3	120	6
Russian Federation	2018	358,614	*26,065	*219,125	7,430	158,124	1,086
	2019	357,564	*21,923	205,394	6,905	167,189	1,147
	2020	330,441	22,400	199,600	-2,170	155,412	1,067
	2021	356,861	21,800	197,785	*6,317	174,559	1,203
Serbia	2018	..	260	..	-2	262	35
	2019	..	253	..	-4	256	35
	2020	..	216	..	-7	223	30
	2021	..	302	..	27	275	38
Slovakia	2018	..	3,962	..	42	3,920	720
	2019	..	3,344	..	92	3,252	596
	2020	..	2,520	..	-74	2,594	475
	2021	..	3,327	..	-170	3,497	642
Slovenia	2018	..	10	..	-1	11	5
	2019	..	11	..	0	11	5
	2020	..	12	..	0	13	6
	2021	..	6	..	0	6	3
Spain	2018	771	15,773	276	-2,668	18,936	405
	2019	..	8,586	1,525	-580	7,641	162
	2020	..	3,968	1,986	-2,120	4,102	87
	2021	..	5,275	627	270	4,378	92
Sweden	2018	..	2,718	..	-78	2,796	275
	2019	..	2,368	..	-51	2,419	236
	2020	..	2,025	..	34	1,991	192
	2021	..	2,113	..	33	2,080	199
Switzerland	2018	..	15	0	-38	53	6
	2019	..	29	0	-19	48	6
	2020	..	22	0	-14	36	4
	2021	..	33	0	-2	35	4
Ukraine	2018	25,202	21,387	63	140	46,386	1,044
	2019	24,854	21,082	61	2,571	43,304	979
	2020	24,168	16,951	3	2,354	38,762	883
	2021	15,553	19,563	5	..	35,111	807
United Kingdom	2018	2,782	10,061	634	168	12,041	181
	2019	2,591	6,229	740	84	7,996	120
	2020	1,673	4,532	1,309	-2,188	7,085	106
	2021	1,054	4,608	1,130	-2,754	7,286	108
Latin America & Carib.	**2018**	**95,882**	**45,244**	**84,810**	**-7,171**	**63,488**	**99**
	2019	**95,178**	**46,058**	**72,527**	**3,207**	**65,501**	**101**
	2020	**60,576**	**39,172**	**68,507**	**-27,975**	**59,217**	**91**
	2021	**64,272**	**46,373**	**55,656**	**-6,208**	**61,197**	**93**
Argentina	2018	60	1,696	2	86	1,668	38
	2019	105	933	59	221	758	17
	2020	20	1,209	..	..	1,229	27
	2021	20	1,716	..	..	1,736	38

Table 6

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
Bolivia (Plur. State of)	2018	..	8	..	..	8	1
	2019	..	9	..	..	9	1
	2020	..	4	..	..	4	0
	2021	..	10	..	..	10	1
Brazil	2018	4,838	20,986	..	409	25,415	121
	2019	5,410	18,859	..	51	24,218	114
	2020	5,481	16,066	..	-297	21,844	102
	2021	6,665	20,112	..	-295	27,072	126
Chile	2018	2,257	11,473	422	220	13,087	700
	2019	1,427	13,107	..	-296	14,830	779
	2020	479	11,060	..	-474	12,013	622
	2021	43	12,565	..	378	12,231	627
Colombia	2018	84,284	0	83,593	-7,165	7,856	159
	2019	84,343	0	71,527	3,644	9,172	183
	2020	49,832	0	67,835	-26,792	8,789	173
	2021	55,850	..	55,450	-6,878	7,278	141
Costa Rica	2018	..	0	..	..	0	0
	2019	..	0	..	..	0	0
	2020	..	0	..	..	0	0
	2021	..	21	..	..	21	4
Cuba	2018	..	4	..	..	4	0
	2019	..	0	..	..	0	0
	2020	..	2	..	..	2	0
	2021	..	4	..	..	4	0
Dominican Republic	2018	..	1,263	..	24	1,238	115
	2019	..	1,207	..	-23	1,230	113
	2020	..	2,800	..	9	2,791	254
	2021	..	2,632	..	..	2,632	237
Guatemala	2018	..	1,807	..	40	1,767	105
	2019	..	2,542	..	817	1,725	101
	2020	..	1,101	..	-13	1,114	64
	2021	..	2,236	..	810	1,426	81
Guyana	2018	..	2	..	0	2	3
	2019	..	6	..	*3	3	4
	2020	..	1	..	*-1	2	2
	2021	..	0	..	*-2	*2	*2
Jamaica	2018	..	106	..	19	87	31
	2019	..	101	..	-17	118	42
	2020	..	101	..	-17	118	42
	2021	..	101	..	-17	118	42
Mexico	2018	3,930	7,271	5	111	11,085	89
	2019	3,303	8,085	5	-121	11,504	92
	2020	3,930	5,558	3	-139	9,624	76
	2021	1,330	5,799	4	78	7,047	56
Panama	2018	..	304	..	86	219	53
	2019	..	844	..	-53	897	212
	2020	..	1,007	..	42	965	225
	2021	..	908	..	11	897	206
Paraguay	2018	..	5	..	..	5	1
	2019	..	2	..	..	2	0
	2020	..	1	..	..	1	0
	2021	..	1	..	..	1	0

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
Peru	2018	217	319	633	-1,001	903	28
	2019	181	364	630	-1,019	933	28
	2020	115	262	21	-294	649	19
	2021	110	267	21	-295	651	19
Venezuela (Bolivar. Rep.)	2018	297	..	155	..	142	5
	2019	409	..	306	..	103	4
	2020	720	..	648	..	72	3
	2021	253	..	181	..	72	3
Northern America	**2018**	**358,184**	**10,116**	**129,973**	**-10,802**	**249,129**	**675**
	2019	**343,744**	**11,271**	**114,712**	**21,116**	**219,187**	**589**
	2020	**248,958**	**7,476**	**90,357**	**-8,208**	**174,285**	**466**
	2021	**269,534**	**8,414**	**102,846**	**-17,416**	**192,517**	**513**
Canada	2018	32,394	6,303	32,047	1,875	4,775	129
	2019	33,882	7,091	35,546	296	5,131	137
	2020	30,972	4,862	31,450	325	4,059	107
	2021	31,841	5,407	31,480	817	4,950	130
United States	2018	325,790	3,813	97,926	-12,677	244,354	736
	2019	309,862	4,180	79,166	20,820	214,056	640
	2020	217,986	2,614	58,907	-8,533	170,226	507
	2021	237,693	3,007	71,366	-18,233	187,567	557
Oceania	**2018**	**423,021**	**1,569**	**383,196**	**2,870**	**38,524**	**906**
	2019	**435,273**	**1,455**	**394,374**	**834**	**41,520**	**959**
	2020	**426,905**	**1,454**	**389,824**	**1,981**	**36,555**	**832**
	2021	**395,271**	**1,044**	**365,697**	**-2,521**	**33,139**	**745**
Australia	2018	421,702	228	381,946	2,777	37,207	1,490
	2019	433,982	182	392,934	1,032	40,198	1,585
	2020	425,776	296	388,716	2,232	35,124	1,368
	2021	394,014	142	364,507	-2,491	32,140	1,240
New Caledonia	2018	..	1,266	..	69	1,197	4,203
	2019	..	1,160	..	-30	1,191	4,173
	2020	..	1,118	..	56	1,063	3,711
	2021	..	863	..	-35	898	3,121
New Zealand	2018	1,319	75	1,250	24	120	25
	2019	1,291	112	1,440	-168	131	26
	2020	1,129	40	1,108	-307	368	73
	2021	1,257	39	1,190	5	101	20

Table 7

International trade of hard coal
(Principal importers/exporters)

Thousand metric tons

2020

Importers	Exporters					
	World	Australia	Canada	China	Colombia	Indonesia
Austria	2,709	261	..	..	..	..
Belgium	3,063	1,192	..	..	36	..
Brazil	16,066	3,204	305	1	3,849	..
Canada	4,862	..	..	..	534	..
Chile	11,060	2,439	1,176	..	6,868	..
China	303,610	102,079	5,209	..	1,545	55,895
China, Hong Kong SAR	5,485	327	..	..	..	4,011
Denmark	1,111	..	..	..	..	..
Finland	2,432	130	285	..	..	..
France	7,142	2,431	133	2	445	..
Germany	29,573	3,851	1,219	2	1,854	..
India	215,251	42,282	3,691	37	3,746	98,411
Israel	7,743	..	..	..	..	..
Italy	7,179	414	109	..	584	67
Japan	173,039	109,476	7,986	513	495	23,333
Korea, Republic of	115,485	48,351	7,256	1,380	3,894	18,385
Malaysia	33,653	7,050	..	87	47	*24,613
Mexico	5,558	..	..	21	235	..
Morocco	9,965	..	..	..	185	..
Netherlands (Kingd. of the)	6,035	1,292	..	..	305	..
Pakistan	18,850	51	..	5	..	3,521
Poland	12,771	1,056	4	4	902	..
Portugal	5	..	..	..	..	..
Russian Federation	22,400	..	..	..	33	..
Slovakia	2,520	..	192	..	20	..
Spain	3,968	153	..	7	461	..
Thailand	23,734	3,881	..	3	174	17,812
Türkiye	40,106	904	915	..	17,212	..
Ukraine	16,951	134	..	..	18	..
United Kingdom	4,532	320	..	7	115	..
United States	2,614	..	294	98	1,907	59

International trade of hard coal
(Principal importers/exporters)

Thousand metric tons

2020

Exporters					
Kazakhstan	Mongolia	Mozambique	Russian Federation	South Africa	United States
..	..	..	343	..	512
..	..	..	1,193	102	427
..	..	303	3,126	329	*4,949
..	..	..	198	..	4,062
..	..	..	156	..	410
255	28,127	77	33,988	..	1,621
..	..	..	991	..	..
..	..	..	1,074	9	..
..	..	..	1,332	..	613
15	..	102	2,414	298	1,222
159	..	140	14,227	417	5,751
..	..	4,009	7,696	35,131	11,648
..	..	..	..	..	..
304	..	..	4,007	..	1,478
125	..	129	23,121	103	7,227
..	..	1,248	24,686	1,221	3,847
..	..	..	1,854	1	..
..	..	..	1,294	..	3,591
49	..	..	8,701	61	760
..	..	..	3,232	..	1,205
..	..	..	987	11,322	..
843	..	208	9,396	..	270
..	..	..	..	..	..
19,500	..	..	..	..	..
..	..	295	881	..	398
259	..	..	2,183	..	358
..	..	..	1,639	..	..
456	..	77	16,047	1,976	2,498
1,280	..	..	11,906	..	3,277
62	..	..	1,627	66	991
..	..	..	253	..	..

Table 7

International trade of hard coal
(Principal importers/exporters)

Thousand metric tons

2021

Importers	Exporters					
	World	Australia	Canada	China	Colombia	Indonesia
Austria	2,771	438	..	..	..	..
Belgium	2,938	1,060	..	..	..	..
Brazil	20,112	4,940	78	1	5,955	..
Canada	5,407	..	..	1	880	..
Chile	12,565	2,612	1,491	..	6,819	..
China	323,274	21,242	10,556	..	4,202	87,732
China, Hong Kong SAR	6,534	241	..	..	..	5,351
Denmark	774	..	..	..	6	..
Finland	2,217	52	331	..	..	..
France	7,775	2,648	..	3	847	..
Germany	38,418	5,249	1,301	10	2,284	..
India	208,934	74,526	2,020	*954	..	77,154
Israel	6,571	..	..	..	..	..
Italy	7,913	514	164	..	216	..
Japan	183,952	123,761	7,084	1,007	624	20,682
Korea, Republic of	117,303	62,697	5,174	298	2,264	15,446
Malaysia	30,530	8,419	..	38	128	*19,467
Mexico	5,799	..	1	..	131	..
Morocco	10,941	..	..	..	13	..
Netherlands (Kingd. of the)	8,848	1,927	..	..	392	..
Pakistan	18,103	1,457	..	150	..	*2,844
Poland	12,382	2,012	120	2	614	..
Portugal	3	..	..	..	..	..
Russian Federation	21,800	..	..	1	38	..
Slovakia	3,327	78	322	..	47	..
Spain	5,275	931	1	6	1,568	77
Thailand	23,793	5,975	..	3	..	15,607
Türkiye	37,189	5,200	765	..	14,354	..
Ukraine	19,563	73	..	..	132	..
United Kingdom	4,608	511	..	6	167	..
United States	3,007	..	762	103	1,800	..

International trade of hard coal
(Principal importers/exporters)

Thousand metric tons

2021

Exporters					
Kazakhstan	Mongolia	Mozambique	Russian Federation	South Africa	United States
..	..	..	369	..	256
..	..	..	1,261	161	319
55	..	..	*2,937	477	5,669
..	..	..	229	..	4,255
..	..	..	716	..	910
542	15,708	970	54,624	6,871	11,290
..	..	..	671	..	73
..	..	..	693	4	57
..	..	..	1,046	..	650
10	..	..	2,704	574	771
..	..	16	20,224	1,028	6,883
651	..	5,673	7,526	26,046	13,871
..	..	..	..	..	..
..	..	..	4,910	281	1,100
52	..	332	20,331	380	8,843
..	..	1,208	18,469	2,328	2,786
..	..	..	2,321	157	..
..	..	..	2,848	..	735
..	..	..	8,223	602	1,938
404	..	373	3,392	203	2,128
..	..	262	830	12,334	225
545	..	149	8,182	..	345
..	..	..	..	..	..
18,880	..	..	..	..	..
..	..	343	859	..	433
237	..	..	1,559	..	589
..	..	..	416	..	2
1,161	..	..	13,589	206	900
2,484	..	..	12,953	..	2,379
74	..	..	1,969	97	1,128
..	..	..	307	33	..

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 18: Production of brown coal and oil shale by region, 1990-2021

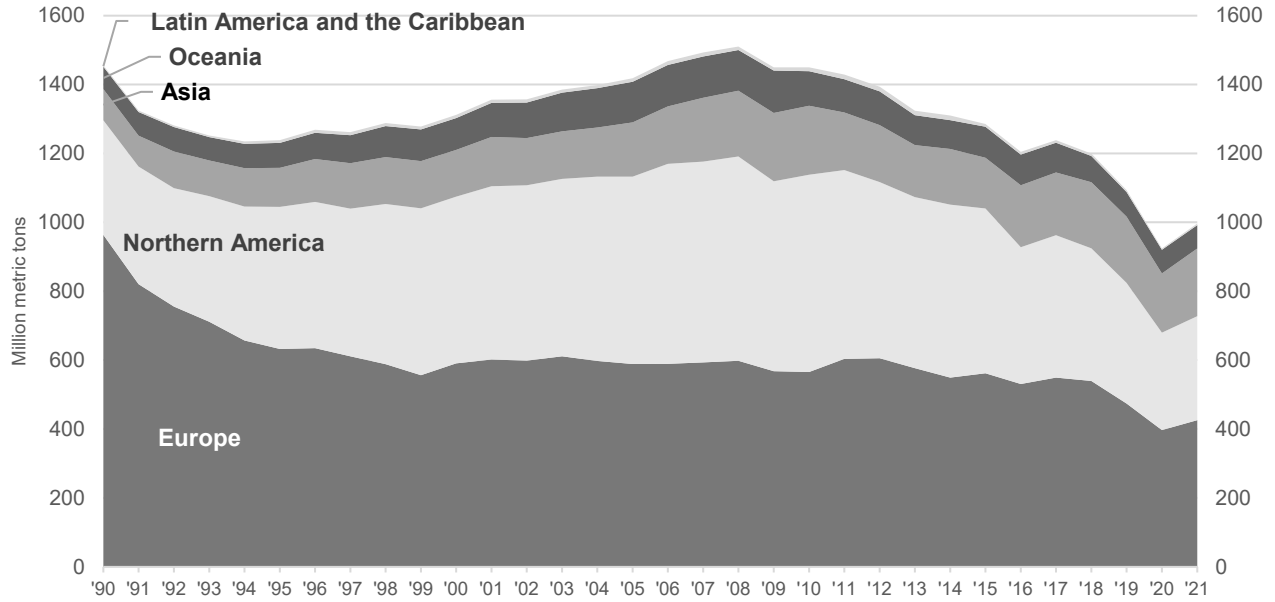


Figure 19: Major brown coal producing countries, 2021

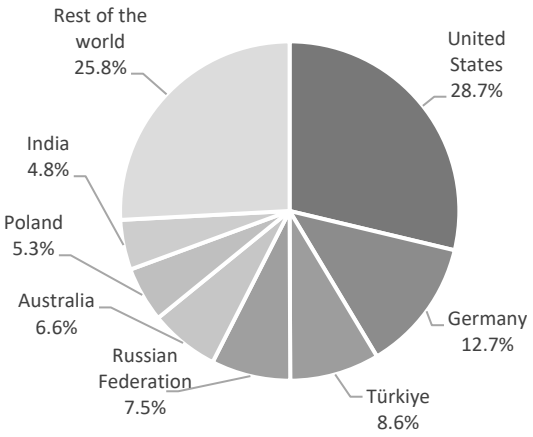


Figure 20: Major brown coal consuming countries, 2021

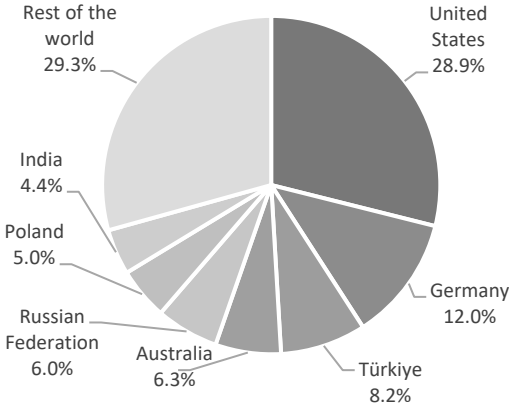


Table 8

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	**2018**	**1,199,139**	**61,241**	**28,766**	**-20,368**	**1,251,982**	**163**
	2019	**1,093,637**	**63,514**	**32,792**	**15,566**	**1,108,793**	**143**
	2020	**923,783**	**64,397**	**29,501**	**7,766**	**950,913**	**121**
	2021	**996,217**	**66,495**	**34,819**	**-27,022**	**1,054,915**	**133**
Asia	**2018**	**191,523**	**50,442**	**9,122**	**1,575**	**231,267**	**50**
	2019	**192,419**	**52,758**	**13,359**	**370**	**231,448**	**50**
	2020	**171,725**	**55,028**	**11,735**	**3,682**	**211,336**	**45**
	2021	**196,398**	**57,484**	**13,534**	**100**	**240,247**	**51**
Brunei Darussalam	2018	..	..	..	..	..	..
	2019	..	341	..	..	341	779
	2020	..	1,200	..	..	1,200	2,717
	2021	..	1,297	..	..	1,297	2,912
Cambodia	2018	34	1,772	..	..	1,806	113
	2019	77	2,346	..	..	2,423	149
	2020	91	2,274	..	..	2,365	144
	2021	108	2,026	..	..	2,133	129
Georgia	2018	138	..	2	-2	138	37
	2019	15	..	1	11	4	1
	2020	99	..	1	15	84	22
	2021	148	..	1	-4	151	40
India	2018	44,283	19	40	1,538	42,724	31
	2019	42,103	54	93	177	41,887	30
	2020	36,614	19	150	604	35,879	26
	2021	47,490	68	18	1,592	45,948	33
Israel	2018	415	..	..	..	415	49
	2019	403	..	..	..	403	47
	2020	393	..	..	..	393	45
	2021	431	..	..	..	431	48
Kazakhstan	2018	6,561	0	2,757	5	3,799	205
	2019	5,929	0	2,698	36	3,195	170
	2020	5,422	..	3,564	-129	1,987	105
	2021	4,861	0	3,203	252	1,406	73
Korea, Dem.Ppl's.Rep.	2018	1,602	..	..	..	1,602	62
	2019	1,791	..	..	..	1,791	70
	2020	1,685	..	..	..	1,685	65
	2021	1,383	..	..	..	1,383	53
Korea, Republic of	2018	..	9,828	..	..	9,828	190
	2019	..	9,449	..	..	9,449	182
	2020	..	8,007	..	..	8,007	154
	2021	..	8,313	..	..	8,313	160
Kyrgyzstan	2018	2,071	4	367	-185	1,893	304
	2019	2,277	14	448	-26	1,869	296
	2020	2,155	4	400	-21	1,780	277
	2021	2,493	2	549	18	1,928	295
Lao People's Dem. Rep.	2018	15,903	..	413	*-1,061	16,551	2,330
	2019	15,264	..	..	*595	14,669	2,034
	2020	14,367	..	..	*37	14,330	1,958
	2021	13,618	..	..	*-862	14,480	1,950
Mongolia	2018	7,015	..	507	-20	6,529	2,064
	2019	6,977	..	137	..	6,840	2,116
	2020	7,105	..	90	..	7,015	2,129
	2021	7,488	1	430	..	7,059	2,109

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
Other Asia	2018	..	11,566	..	-313	11,879	501
	2019	..	11,751	..	245	11,505	484
	2020	..	11,658	..	962	10,697	449
	2021	..	11,016	..	-103	11,119	466
Pakistan	2018	..	0	0	..	0	0
	2019	..	0	1	..	-1	0
	2020	..	59	1	..	59	0
	2021	..	1,747	2	..	1,745	8
Philippines	2018	11,755	26,301	5,035	2,044	30,976	285
	2019	13,751	27,692	9,980	-1,658	33,122	300
	2020	12,951	29,524	7,525	1,706	33,244	296
	2021	14,048	31,239	9,298	154	35,834	315
Saudi Arabia	2018	..	2	..	..	2	0
	2019	..	2	0	..	2	0
	2020	..	1	..	..	1	0
	2021	..	1	..	..	1	0
Tajikistan	2018	65	1	..	..	66	7
	2019	65	9	..	..	74	8
	2020	78	26	..	..	104	11
	2021	96	..	..	..	96	10
Thailand	2018	14,852	226	..	491	14,587	205
	2019	14,078	383	..	375	14,086	198
	2020	13,250	148	..	-29	13,427	188
	2021	14,222	276	..	-25	14,523	203
Türkiye	2018	82,835	..	1	353	82,481	996
	2019	85,883	..	1	811	85,071	1,019
	2020	73,646	..	4	1,386	72,256	859
	2021	85,230	..	33	-1,330	86,527	1,021
Uzbekistan	2018	3,993	722	0	-1,275	5,990	185
	2019	3,806	717	0	-197	4,720	143
	2020	3,869	2,107	..	-848	6,824	204
	2021	4,781	1,499	..	409	5,871	172
Europe	**2018**	**539,283**	**5,382**	**12,351**	**-2,029**	**534,343**	**715**
	2019	**473,889**	**5,555**	**13,400**	**4,203**	**461,842**	**617**
	2020	**396,906**	**4,717**	**13,793**	**-2,831**	**390,661**	**522**
	2021	**425,516**	**4,520**	**15,192**	**-4,852**	**419,695**	**561**
Austria	2018	..	80	0	..	79	9
	2019	..	68	0	..	68	8
	2020	..	64	0	..	64	7
	2021	..	60	0	..	60	7
Belgium	2018	128	3	1	-3	132	12
	2019	136	1	1	-5	141	12
	2020	143	2	0	-2	147	13
	2021	135	1	0	0	136	12
Bosnia and Herzegovina	2018	14,505	106	195	262	14,154	4,163
	2019	13,377	117	163	489	12,842	3,821
	2020	13,536	71	157	-238	13,688	4,125
	2021	12,831	37	161	-519	13,227	4,044
Bulgaria	2018	30,263	..	43	54	30,166	4,238
	2019	28,040	..	50	82	27,908	3,957
	2020	22,342	..	28	0	22,314	3,197
	2021	28,339	..	8	-197	28,527	4,143

Table 8

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
Croatia	2018	..	36	..	..	36	9
	2019	..	31	..	..	31	7
	2020	..	18	..	..	18	4
	2021	..	6	..	..	6	1
Czechia	2018	39,204	185	838	-243	38,794	3,682
	2019	37,486	62	685	670	36,193	3,435
	2020	29,433	54	491	-782	29,778	2,828
	2021	29,279	38	337	-695	29,675	2,823
Estonia	2018	21,883	..	..	509	21,374	16,166
	2019	15,877	..	..	624	15,253	11,494
	2020	12,144	..	..	103	12,041	9,057
	2021	11,743	..	..	-1,443	13,186	9,924
France	2018	..	67	..	-9	77	1
	2019	..	55	..	-4	59	1
	2020	..	45	..	-10	56	1
	2021	..	45	..	-1	46	1
Germany	2018	166,258	21	..	-920	167,199	2,017
	2019	131,314	24	..	-113	131,451	1,581
	2020	107,377	27	..	-25	107,430	1,289
	2021	126,257	27	..	102	126,182	1,513
Greece	2018	36,489	..	..	-180	36,669	3,449
	2019	27,375	..	..	754	26,621	2,518
	2020	14,054	..	2	-328	14,380	1,368
	2021	12,398	..	..	-816	13,214	1,265
Hungary	2018	7,898	159	3	-91	8,145	833
	2019	6,847	113	4	74	6,882	704
	2020	6,125	80	2	1	6,202	636
	2021	4,988	70	3	20	5,035	519
Italy	2018	..	2	..	..	2	0
	2019	..	1	..	..	1	0
	2020	..	1	..	..	1	0
	2021	..	1	..	..	1	0
Kosovo	2018	7,661	9	9	-32	7,692	4,499
	2019	8,063	11	27	-26	8,073	4,786
	2020	8,382	19	9	124	8,268	4,949
	2021	8,535	48	266	-51	8,368	5,035
Lithuania	2018	..	2	..	0	1	0
	2019	..	..	..	-1	1	0
	2020	..	..	..	0	0	0
	2021	..	..	..	..	..	..
Montenegro	2018	1,596	5	94	-65	1,573	2,491
	2019	1,605	5	111	6	1,494	2,370
	2020	1,665	6	81	-3	1,594	2,533
	2021	1,549	..	148	-3	1,403	2,235
Netherlands (Kingd. of the)	2018	..	54	..	0	54	3
	2019	..	11	..	0	12	1
	2020	..	16	..	..	16	1
	2021	..	9	..	..	9	1
North Macedonia	2018	5,477	146	1	-277	5,900	2,792
	2019	5,477	146	1	-277	5,900	2,791
	2020	5,028	173	1	-7	5,207	2,467
	2021	4,119	355	..	132	4,342	2,064

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
Poland	2018	58,571	276	287	-24	58,583	1,521
	2019	50,329	290	148	10	50,461	1,311
	2020	45,983	151	54	-26	46,107	1,200
	2021	52,356	130	9	-139	52,615	1,373
Romania	2018	23,647	588	6	-724	24,953	1,273
	2019	21,652	882	0	315	22,218	1,138
	2020	15,031	496	2	-319	15,844	815
	2021	17,733	597	..	-541	18,872	976
Russian Federation	2018	80,478	2,160	10,796	25	71,817	493
	2019	81,886	2,338	12,116	1,674	70,434	483
	2020	71,834	2,229	12,894	-328	61,497	422
	2021	75,150	2,201	14,219	*-100	63,232	436
Serbia	2018	37,649	369	80	-560	38,498	5,179
	2019	38,881	378	94	517	38,648	5,222
	2020	39,673	328	73	-746	40,674	5,528
	2021	36,418	386	40	-254	37,017	5,073
Slovakia	2018	1,502	595	..	43	2,054	377
	2019	1,465	507	..	45	1,927	353
	2020	981	486	..	-211	1,678	308
	2021	1,074	234	..	2	1,306	240
Slovenia	2018	3,217	411	..	-51	3,678	1,746
	2019	3,143	418	..	97	3,464	1,639
	2020	3,175	348	..	72	3,450	1,629
	2021	2,612	169	..	-351	3,132	1,478
Spain	2018	1,630	..	..	250	1,380	29
	2019	..	..	..	-729	729	15
	2020	..	..	..	-105	105	2
	2021	..	..	..	..	..	..
Switzerland	2018	..	110	..	3	107	13
	2019	..	97	..	1	96	11
	2020	..	103	..	1	102	12
	2021	..	106	..	3	103	12
Ukraine	2018	1,228	..	..	2	1,226	28
	2019	935	..	..	..	935	21
	2020	..	..	..	..	..	..
	2021	..	..	..	..	..	..
Latin America & Carib.	**2018**	**6,971**	**2,010**	**..**	**-321**	**9,302**	**15**
	2019	**5,626**	**1,418**	**..**	**-622**	**7,666**	**12**
	2020	**3,531**	**237**	**..**	**-164**	**3,932**	**6**
	2021	**4,569**	**69**	**..**	**-63**	**4,701**	**7**
Guyana	2018	..	..	..	..	..	..
	2019	..	1	..	..	1	1
	2020	..	..	..	..	..	..
	2021	..	0	..	..	0	1
Mexico	2018	6,971	2,010	..	-321	9,302	75
	2019	5,626	1,417	..	-622	7,665	61
	2020	3,531	237	..	-164	3,932	31
	2021	4,569	69	..	-63	4,701	37
Northern America	**2018**	**385,294**	**2,881**	**7,265**	**-19,683**	**400,593**	**1,085**
	2019	**350,174**	**2,821**	**6,024**	**11,537**	**335,433**	**902**
	2020	**282,926**	**3,375**	**3,941**	**6,860**	**275,501**	**737**
	2021	**301,912**	**2,616**	**6,039**	**-22,468**	**320,957**	**855**

Table 8

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
Canada	2018	25,101	1,292	291	95	26,007	702
	2019	19,284	926	128	-288	20,369	543
	2020	15,174	1,329	191	350	15,963	421
	2021	15,769	734	190	301	16,012	420
United States	2018	360,193	1,589	6,974	-19,778	374,586	1,128
	2019	330,890	1,895	5,896	11,825	315,064	942
	2020	267,752	2,046	3,750	6,510	259,538	773
	2021	286,143	1,882	5,849	-22,769	304,945	905
Oceania	**2018**	**76,068**	**526**	**28**	**90**	**76,476**	**1,798**
	2019	**71,530**	**962**	**10**	**79**	**72,404**	**1,673**
	2020	**68,695**	**1,040**	**33**	**219**	**69,483**	**1,582**
	2021	**67,822**	**1,806**	**55**	**261**	**69,313**	**1,558**
Australia	2018	74,156	..	..	..	74,156	2,969
	2019	69,787	..	..	..	69,787	2,752
	2020	67,005	..	..	..	67,005	2,610
	2021	66,211	..	..	..	66,211	2,554
New Zealand	2018	1,912	526	28	90	2,320	479
	2019	1,743	962	10	79	2,617	528
	2020	1,690	1,040	33	219	2,478	490
	2021	1,611	1,806	55	261	3,102	605

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 21: Per capita supply of coke by region, 2021

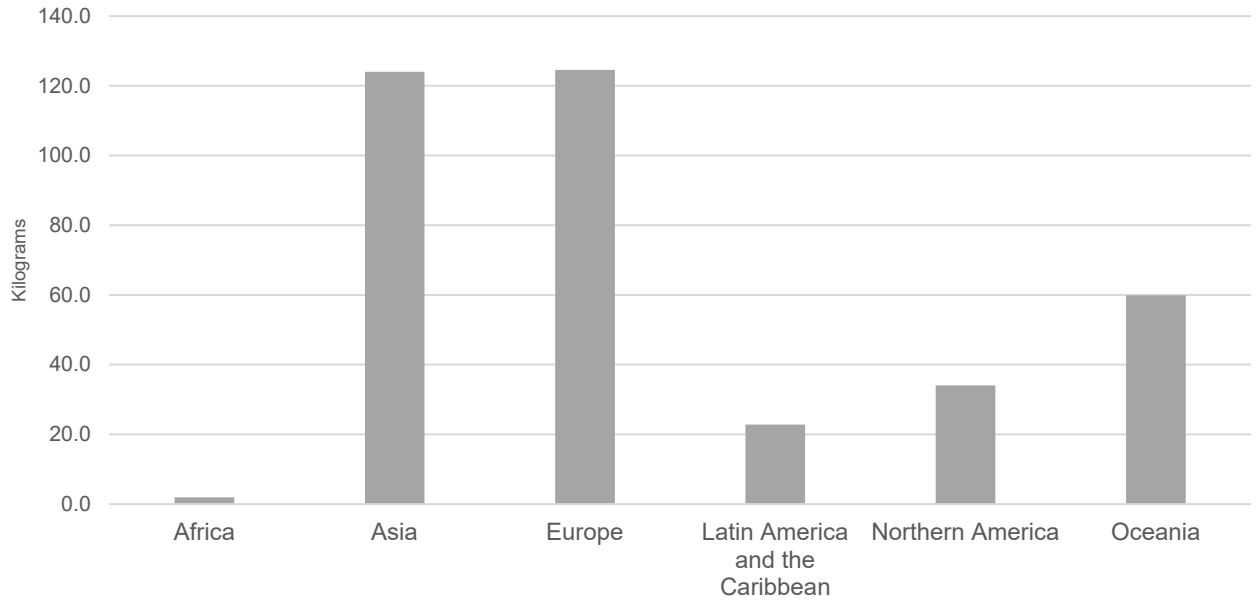


Figure 22: Major coke producing countries, 2021

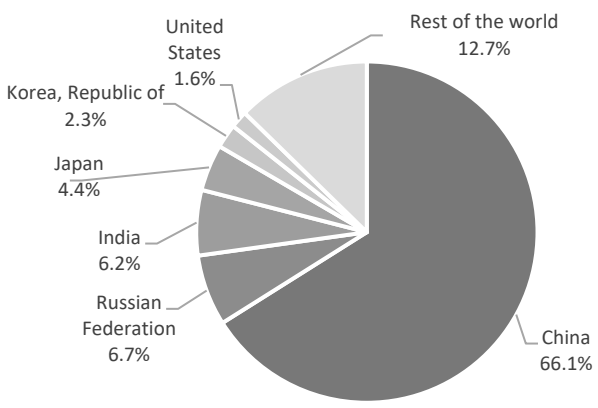


Figure 23: Major coke consuming countries, 2021

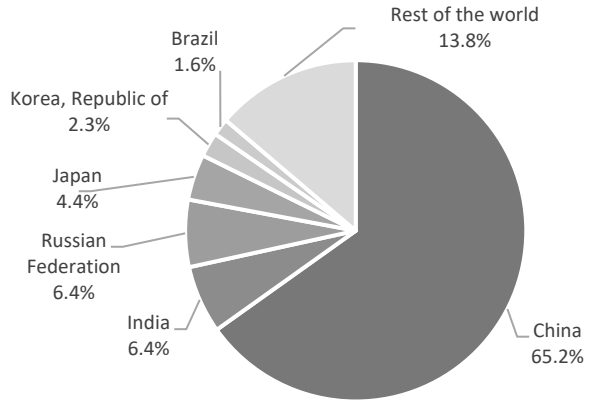


Table 9

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	**2018**	**672,236**	**28,277**	**29,832**	**6,311**	**664,371**	**86**
	2019	**711,988**	**26,473**	**26,284**	**2,534**	**709,642**	**91**
	2020	**694,798**	**26,515**	**25,059**	**-3,205**	**699,460**	**89**
	2021	**702,685**	**31,206**	**31,690**	**-6,065**	**708,266**	**90**
Africa	**2018**	**2,788**	**761**	**106**	**-94**	**3,537**	**3**
	2019	**2,623**	**568**	**288**	**-4**	**2,907**	**2**
	2020	**1,415**	**820**	**219**	**0**	**2,016**	**1**
	2021	**2,564**	**1,099**	**998**	**12**	**2,654**	**2**
Algeria	2018	7	545	..	-52	603	14
	2019	15	476	..	-4	494	12
	2020	5	218	..	0	223	5
	2021	13	455	..	12	455	10
Egypt	2018	296	*116	..	-42	454	4
	2019	509	..	168	..	342	3
	2020	61	528	18	..	571	5
	2021	..	569	..	..	569	5
Madagascar	2018	..	*24	..	..	*24	*1
	2019	..	*24	..	..	*24	*1
	2020	..	*24	..	..	*24	*1
	2021	..	*24	..	..	*24	*1
South Africa	2018	2,281	..	..	..	2,281	40
	2019	1,880	..	..	..	1,880	32
	2020	1,042	..	..	..	1,042	18
	2021	1,439	..	..	..	1,439	24
Zambia	2018	..	*52	*2	..	*50	*3
	2019	..	*52	*2	..	*50	*3
	2020	..	*51	*2	..	*49	*3
	2021	..	*51	*2	..	*49	*3
Zimbabwe	2018	205	24	104	..	125	8
	2019	219	16	118	..	118	8
	2020	308	..	199	..	108	7
	2021	1,113	..	996	..	118	7
Asia	**2018**	**556,633**	**11,392**	**11,859**	**5,394**	**550,773**	**120**
	2019	**583,382**	**10,098**	**8,762**	**1,648**	**583,070**	**126**
	2020	**575,654**	**12,168**	**7,480**	**-1,808**	**582,151**	**125**
	2021	**576,300**	**13,298**	**9,897**	**-2,414**	**582,115**	**124**
Afghanistan	2018	*67	*113	*67	..	*113	*3
	2019	*67	*97	*67	..	*97	*3
	2020	*68	*89	*70	..	*88	*2
	2021	*69	*77	*70	..	*76	*2
Bhutan	2018	..	58	..	..	58	77
	2019	..	37	..	..	37	48
	2020	..	61	..	..	61	79
	2021	..	100	..	..	100	129
China	2018	447,514	91	9,758	5,268	432,579	305
	2019	472,958	523	6,523	1,622	465,337	327
	2020	471,882	2,979	3,492	-1,751	473,120	332
	2021	464,240	1,332	6,434	-2,339	461,477	324
Georgia	2018	..	162	..	3	159	42
	2019	..	145	..	12	133	35
	2020	..	82	..	-18	100	27
	2021	..	148	..	6	142	38

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
India	2018	*37,665	*4,931	*25	..	*42,571	*31
	2019	*40,623	*2,875	*22	..	*43,476	*31
	2020	*37,318	*2,457	*25	..	*39,750	*28
	2021	*43,514	*2,481	*500	..	*45,495	*32
Indonesia	2018	*3,214	*170	0	..	*3,384	*13
	2019	*433	*160	0	..	*593	*2
	2020	*433	*160	..	..	*593	*2
	2021	..	..	..	..	..	..
Iran (Islamic Rep. of)	2018	1,349	354	361	-2	1,344	16
	2019	1,478	384	361	-5	1,506	17
	2020	1,449	371	361	-2	1,461	17
	2021	1,458	371	361	-2	1,470	17
Japan	2018	33,492	1,595	1,437	62	33,587	266
	2019	33,462	708	1,595	-33	32,608	259
	2020	30,029	870	3,242	6	27,652	221
	2021	30,989	2,174	2,280	59	30,824	247
Jordan	2018	..	64	..	..	64	6
	2019	..	65	..	..	65	6
	2020	..	64	..	..	64	6
	2021	..	65	..	..	65	6
Kazakhstan	2018	2,916	933	67	77	3,705	200
	2019	2,668	1,059	34	-49	3,742	200
	2020	2,450	994	10	-44	3,479	183
	2021	2,539	1,066	61	108	3,435	179
Korea, Dem.Ppl's.Rep.	2018	..	133	..	..	133	5
	2019	..	112	..	..	112	4
	2020	..	116	..	..	116	4
	2021	..	98	..	..	98	4
Korea, Republic of	2018	17,468	324	..	..	17,792	344
	2019	16,762	308	..	..	17,070	330
	2020	15,901	266	..	..	16,167	312
	2021	16,054	328	..	..	16,382	316
Malaysia	2018	..	185	..	..	185	6
	2019	..	1,474	..	..	1,474	45
	2020	..	1,618	..	..	1,618	49
	2021	..	2,061	..	..	2,061	61
Other Asia	2018	6,345	300	24	1	6,620	279
	2019	6,175	260	19	39	6,376	268
	2020	5,955	248	117	137	5,949	250
	2021	6,288	200	46	-102	6,544	274
Pakistan	2018	..	100	..	..	100	0
	2019	..	94	..	..	94	0
	2020	..	93	..	..	93	0
	2021	..	138	0	..	138	1
Saudi Arabia	2018	..	82	..	..	82	2
	2019	..	69	..	..	69	2
	2020	..	83	..	..	83	2
	2021	..	113	..	..	113	3
Syrian Arab Republic	2018	..	1	..	..	1	0
	2019	..	1	..	..	1	0
	2020	..	1	..	..	1	0
	2021	..	1	..	..	1	0

Table 9

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
Thailand	2018	..	18	..	-43	61	1
	2019	..	19	..	-50	69	1
	2020	..	17	..	-58	75	1
	2021	..	14	..	-41	55	1
Türkiye	2018	4,477	814	118	29	5,144	62
	2019	4,422	666	141	111	4,836	58
	2020	4,362	679	153	-78	4,966	59
	2021	4,262	1,177	145	-103	5,397	64
United Arab Emirates	2018	..	25	0	..	25	3
	2019	..	5	0	..	5	1
	2020	..	1	0	..	1	0
	2021	..	1	..	..	1	0
Uzbekistan	2018	..	29	..	..	29	1
	2019	..	46	..	..	46	1
	2020	..	50	..	..	50	1
	2021	..	*50	..	..	*50	*1
Viet Nam	2018	2,127	909	1	..	3,035	32
	2019	4,334	993	0	..	5,327	56
	2020	5,806	867	11	..	6,662	69
	2021	6,887	1,303	0	..	8,190	84
Europe	**2018**	**78,801**	**11,556**	**13,036**	**718**	**76,603**	**102**
	2019	**94,515**	**11,304**	**12,461**	**634**	**92,723**	**124**
	2020	**88,995**	**9,251**	**12,358**	**-1,141**	**87,029**	**116**
	2021	**91,392**	**12,059**	**14,022**	**-3,691**	**93,120**	**125**
Austria	2018	1,359	823	41	44	2,097	237
	2019	1,365	951	38	-90	2,369	267
	2020	1,370	816	30	46	2,111	237
	2021	1,365	921	44	-13	2,254	253
Belarus	2018	..	56	..	-1	57	6
	2019	..	47	..	-4	51	5
	2020	..	36	..	-2	38	4
	2021	..	39	..	..	39	4
Belgium	2018	1,252	508	26	4	1,729	151
	2019	1,253	585	38	26	1,774	154
	2020	1,140	430	136	1	1,434	124
	2021	1,310	400	43	-47	1,714	148
Bosnia and Herzegovina	2018	945	38	566	-12	429	126
	2019	907	46	455	26	472	140
	2020	784	29	368	-14	459	138
	2021	961	11	446	3	523	160
Bulgaria	2018	..	61	..	-1	62	9
	2019	..	62	..	0	62	9
	2020	..	70	..	7	63	9
	2021	..	56	..	-1	57	8
Croatia	2018	..	30	..	-1	31	7
	2019	..	28	..	-3	31	8
	2020	..	29	..	-1	30	7
	2021	..	30	..	0	30	7
Czechia	2018	2,738	529	636	-25	2,656	252
	2019	2,536	465	593	-7	2,415	229
	2020	2,381	439	529	-39	2,330	221
	2021	2,688	539	666	34	2,526	240

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
Denmark	2018	..	14	..	2	13	2
	2019	..	9	..	-1	10	2
	2020	..	11	..	0	12	2
	2021	..	12	..	0	11	2
Estonia	2018	14	..	13	1	0	0
	2019	23	..	20	3	0	0
	2020	15	..	19	-4	0	0
	2021	16	..	17	-1	0	0
Finland	2018	899	311	107	38	1,065	193
	2019	874	322	202	84	910	165
	2020	796	301	134	49	914	165
	2021	870	249	64	-51	1,106	200
France	2018	3,346	608	50	-39	3,942	59
	2019	3,255	631	6	36	3,844	58
	2020	2,417	493	13	21	2,877	43
	2021	108	1,507	6	-2,372	3,980	59
Germany	2018	9,361	2,301	838	9	10,815	130
	2019	8,822	1,903	761	..	9,964	120
	2020	7,872	1,600	746	-126	8,852	106
	2021	8,247	2,326	641	..	9,933	119
Hungary	2018	997	96	303	56	734	75
	2019	932	45	317	-15	675	69
	2020	866	16	257	16	609	62
	2021	801	17	474	-92	436	45
Iceland	2018	..	21	..	..	21	60
	2019	..	11	..	..	11	30
	2020	..	17	..	..	17	47
	2021	..	15	..	..	15	40
Italy	2018	1,860	654	361	-14	2,167	36
	2019	1,759	582	292	12	2,037	34
	2020	1,292	427	305	-13	1,426	24
	2021	1,397	634	263	-10	1,778	30
Lithuania	2018	..	19	..	0	19	7
	2019	..	17	..	0	17	6
	2020	..	18	..	0	18	6
	2021	..	17	..	..	17	6
Luxembourg	2018	..	0	..	..	0	1
	2019	..	1	..	..	1	1
	2020	..	0	..	..	0	0
	2021	..	0	..	..	0	0
Netherlands (Kingd. of the)	2018	2,060	69	49	39	2,041	118
	2019	2,054	58	85	33	1,994	115
	2020	1,947	41	273	-52	1,768	101
	2021	1,957	77	39	77	1,917	110
North Macedonia	2018	..	1	0	0	1	0
	2019	..	1	..	0	1	0
	2020	..	1	..	0	1	0
	2021	..	0	..	0	1	0
Norway	2018	..	416	0	-11	428	80
	2019	..	360	0	0	359	67
	2020	..	323	0	-2	325	60
	2021	..	323	..	3	319	59

Table 9

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
Poland	2018	9,849	214	6,948	140	2,974	77
	2019	9,277	189	6,526	217	2,724	71
	2020	8,096	193	6,644	-326	1,971	51
	2021	9,648	222	7,614	-22	2,278	59
Portugal	2018	..	9	..	0	9	1
	2019	..	9	..	0	10	1
	2020	..	10	..	2	8	1
	2021	..	9	..	-2	11	1
Romania	2018	..	721	0	-26	748	38
	2019	..	795	0	26	769	39
	2020	..	665	0	-49	713	37
	2021	..	891	35	29	828	43
Russian Federation	2018	27,094	120	2,739	-12	24,487	168
	2019	45,999	66	2,798	15	43,252	297
	2020	45,926	78	2,687	-603	43,920	302
	2021	47,279	132	3,293	-940	45,058	311
Serbia	2018	..	774	0	-64	838	113
	2019	..	812	..	32	780	105
	2020	..	467	..	-29	497	68
	2021	..	576	..	7	569	78
Slovakia	2018	1,645	305	59	88	1,803	331
	2019	1,454	235	124	108	1,457	267
	2020	1,206	170	40	47	1,289	236
	2021	1,681	166	56	66	1,725	317
Slovenia	2018	..	30	..	0	30	14
	2019	..	31	..	0	30	14
	2020	..	28	..	0	28	13
	2021	..	30	..	1	29	14
Spain	2018	1,484	770	265	320	1,669	36
	2019	878	841	143	110	1,466	31
	2020	567	888	96	12	1,347	28
	2021	1,174	800	102	20	1,852	39
Sweden	2018	1,105	234	9	91	1,239	122
	2019	1,105	456	49	137	1,375	134
	2020	1,070	129	23	-24	1,200	116
	2021	955	168	24	-182	1,281	122
Switzerland	2018	..	15	..	..	15	2
	2019	..	12	0	..	12	1
	2020	..	13	..	..	13	1
	2021	..	14	0	..	14	2
Ukraine	2018	11,460	840	26	7	12,267	276
	2019	10,651	877	14	37	11,476	260
	2020	9,975	382	58	-49	10,348	236
	2021	9,769	790	195	..	10,365	238
United Kingdom	2018	1,334	970	..	87	2,217	33
	2019	1,370	857	..	-148	2,375	36
	2020	1,274	1,129	..	-8	2,411	36
	2021	1,167	1,089	..	-198	2,454	36
Latin America & Carib.	**2018**	**15,800**	**3,125**	**3,173**	**582**	**15,169**	**24**
	2019	**14,471**	**2,653**	**3,199**	**63**	**13,862**	**21**
	2020	**14,154**	**2,426**	**3,489**	**-186**	**13,277**	**20**
	2021	**16,057**	**3,097**	**4,095**	**122**	**14,937**	**23**

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
Argentina	2018	839	..	..	..	839	19
	2019	573	..	..	..	573	13
	2020	631	..	..	..	631	14
	2021	776	..	..	..	776	17
Brazil	2018	10,159	1,839	..	532	11,466	55
	2019	9,260	1,307	..	47	10,520	50
	2020	8,512	1,358	..	-160	10,030	47
	2021	9,977	1,671	..	134	11,513	54
Chile	2018	410	..	31	49	329	18
	2019	391	1	52	-31	371	20
	2020	398	1	134	-22	287	15
	2021	373	1	63	-8	319	16
Colombia	2018	3,138	..	3,099	..	40	1
	2019	3,188	..	3,147	..	40	1
	2020	3,392	..	3,355	..	37	1
	2021	4,077	..	4,032	..	44	1
Cuba	2018	..	1	..	..	1	0
	2019	..	0	..	..	0	0
	2020	..	0	..	..	0	0
	2021	..	1	..	..	1	0
El Salvador	2018	..	1	..	..	1	0
	2019	..	1	..	..	1	0
	2020	..	0	..	..	0	0
	2021	..	1	..	..	1	0
Guyana	2018	..	..	..	..	..	..
	2019	..	19	..	..	19	24
	2020	..	1	..	..	1	1
	2021	..	..	..	..	..	..
Mexico	2018	1,254	1,205	44	..	2,415	19
	2019	1,059	1,219	..	..	2,278	18
	2020	1,221	1,025	..	..	2,246	18
	2021	855	1,371	..	..	2,226	18
Peru	2018	..	79	0	1	78	2
	2019	..	105	0	47	58	2
	2020	..	41	..	-4	45	1
	2021	..	*52	..	*-5	*57	*2
Northern America	**2018**	**15,045**	**1,207**	**1,083**	**-290**	**15,459**	**42**
	2019	**14,103**	**1,403**	**917**	**193**	**14,396**	**39**
	2020	**11,556**	**1,432**	**698**	**-70**	**12,360**	**33**
	2021	**13,328**	**1,338**	**1,984**	**-95**	**12,777**	**34**
Bermuda	2018	..	0	..	..	0	1
	2019	..	0	..	..	0	0
	2020	..	0	..	..	0	1
	2021	..	0	..	..	0	1
Canada	2018	2,520	1,101	39	-105	3,687	100
	2019	2,428	1,298	39	115	3,572	95
	2020	2,164	1,285	78	-107	3,478	92
	2021	1,947	1,232	94	22	3,063	80
United States	2018	12,525	106	1,044	-185	11,772	35
	2019	11,675	105	878	78	10,824	32
	2020	9,392	147	620	37	8,882	26
	2021	11,381	106	1,890	-117	9,714	29

Table 9

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
Oceania	**2018**	**3,169**	**235**	**575**	**..**	**2,829**	**67**
	2019	**2,893**	**448**	**657**	**..**	**2,684**	**62**
	2020	**3,023**	**417**	**814**	**..**	**2,626**	**60**
	2021	**3,044**	**316**	**696**	**..**	**2,664**	**60**
Australia	2018	2,683	235	575	..	2,343	94
	2019	2,468	448	657	..	2,259	89
	2020	2,616	417	814	..	2,219	86
	2021	2,595	316	696	..	2,215	85
New Zealand	2018	486	..	..	..	486	101
	2019	425	..	..	..	425	86
	2020	407	..	..	..	407	80
	2021	449	..	..	..	449	87

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 24: Major patent fuel producing countries, 2021

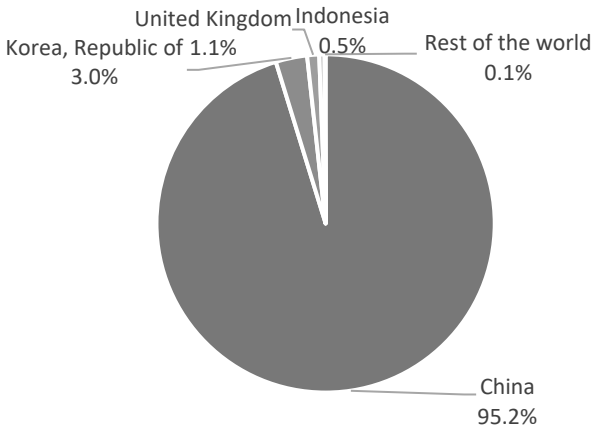


Figure 25: Major patent fuel consuming countries, 2021

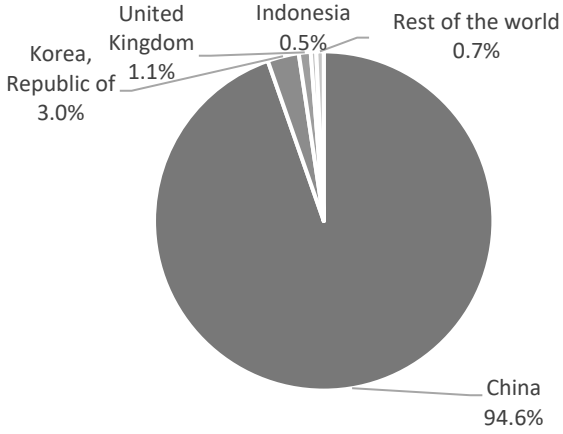


Table 10

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	**2018**	**15,607**	**227**	**68**	**36**	**15,730**	**2**
	2019	**15,054**	**151**	**74**	**213**	**14,918**	**2**
	2020	**14,444**	**117**	**61**	**52**	**14,448**	**2**
	2021	**14,945**	**125**	**65**	**-4**	**15,009**	**2**
Africa	**2018**	**5**	**..**	**..**	**..**	**5**	**0**
	2019	**5**	**..**	**..**	**..**	**5**	**0**
	2020	**6**	**..**	**..**	**..**	**6**	**0**
	2021	**6**	**..**	**..**	**..**	**6**	**0**
Niger	2018	*5	..	..	..	*5	0
	2019	*5	..	..	..	*5	0
	2020	*6	..	..	..	*6	0
	2021	*6	..	..	..	*6	0
Asia	**2018**	**15,391**	**16**	**44**	**52**	**15,311**	**3**
	2019	**14,860**	**14**	**35**	**229**	**14,610**	**3**
	2020	**14,229**	**11**	**27**	**51**	**14,162**	**3**
	2021	**14,758**	**13**	**28**	**..**	**14,743**	**3**
China	2018	13,872	..	43	..	13,829	10
	2019	13,905	..	35	153	13,716	10
	2020	13,561	..	27	51	13,483	9
	2021	14,234	..	28	..	14,206	10
Indonesia	2018	*97	*5	0	*52	*50	0
	2019	*274	*4	..	*76	*202	*1
	2020	*150	*4	..	..	*154	*1
	2021	*75	*4	..	..	*79	0
Korea, Republic of	2018	910	..	..	..	910	18
	2019	644	..	..	..	644	12
	2020	508	..	..	..	508	10
	2021	449	..	..	..	449	9
Saudi Arabia	2018	..	9	0	..	9	0
	2019	..	10	0	..	10	0
	2020	..	7	0	..	7	0
	2021	..	9	0	..	9	0
United Arab Emirates	2018	..	2	..	..	2	0
	2019	..	0	0	..	0	0
	2020	..	0	0	..	0	0
	2021	..	0	..	..	0	0
Uzbekistan	2018	512	..	..	..	512	16
	2019	38	..	..	..	38	1
	2020	10	..	..	..	10	0
	2021	0	..	..	..	0	0
Europe	**2018**	**211**	**209**	**25**	**-16**	**412**	**1**
	2019	**189**	**135**	**38**	**-16**	**302**	**0**
	2020	**209**	**104**	**34**	**1**	**278**	**0**
	2021	**181**	**109**	**37**	**-4**	**258**	**0**
Austria	2018	..	28	0	..	28	3
	2019	..	2	..	..	2	0
	2020	..	2	..	..	2	0
	2021	..	1	..	..	1	0
Belgium	2018	..	5	3	0	1	0
	2019	..	2	1	0	1	0
	2020	..	2	2	0	1	0
	2021	..	3	2	0	1	0

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
France	2018	..	12	..	..	12	0
	2019	..	9	..	..	9	0
	2020	..	6	..	0	6	0
	2021	..	12	..	..	12	0
Germany	2018	..	108	1	..	107	1
	2019	..	73	0	..	72	1
	2020	..	66	2	..	65	1
	2021	..	70	4	..	66	1
Poland	2018	14	12	9	5	13	0
	2019	7	22	26	-6	9	0
	2020	11	8	19	0	0	0
	2021	9	10	18	0	1	0
Slovakia	2018	..	11	..	..	11	2
	2019	..	9	..	..	9	2
	2020	..	7	..	..	7	1
	2021	..	7	..	..	7	1
United Kingdom	2018	197	33	12	-21	239	4
	2019	182	18	11	-10	200	3
	2020	198	12	12	1	197	3
	2021	171	7	12	-4	171	3
Latin America & Carib.	**2018**	**..**	**2**	**..**	**..**	**2**	**0**
	2019	**..**	**2**	**..**	**..**	**2**	**0**
	2020	**..**	**2**	**..**	**..**	**2**	**0**
	2021	**..**	**2**	**..**	**..**	**2**	**0**
Bahamas	2018	..	*2	..	..	*2	*5
	2019	..	*2	..	..	*2	*5
	2020	..	*2	..	..	*2	*5
	2021	..	*2	..	..	*2	*5

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 26: Production of BKB and peat products by region, 1990-2021

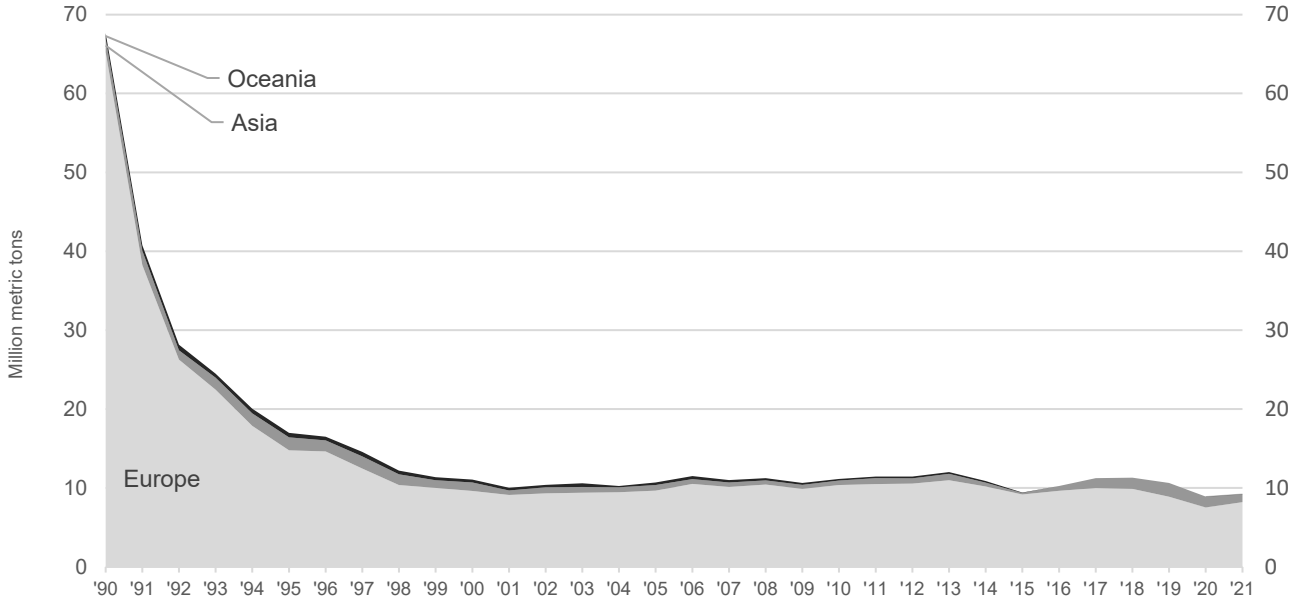


Figure 27: Major BKB and peat products producing countries, 2021

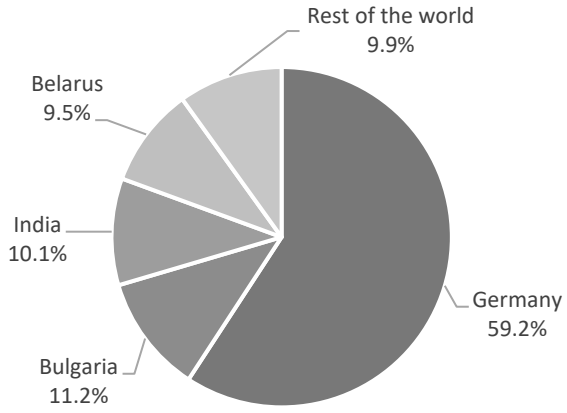


Figure 28: Major BKB and peat products consuming countries, 2021

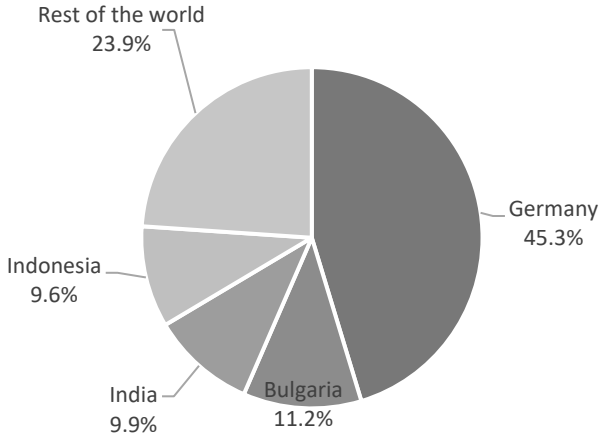


Table 11

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	**2018**	**11,315**	**1,485**	**1,790**	**345**	**10,664**	**1**
	2019	**10,648**	**1,468**	**1,770**	**295**	**10,051**	**1**
	2020	**8,927**	**1,583**	**1,675**	**-39**	**8,874**	**1**
	2021	**9,247**	**1,825**	**1,690**	**-62**	**9,445**	**1**
Africa	**2018**	**..**	**..**	**..**	**..**	**..**	**..**
	2019	**..**	**..**	**..**	**..**	**..**	**..**
	2020	**2**	**..**	**..**	**..**	**2**	**0**
	2021	**2**	**..**	**..**	**..**	**2**	**0**
Niger	2018	..	..	..	..	..	..
	2019	..	..	..	..	..	..
	2020	2	..	..	..	2	0
	2021	*2	..	..	..	*2	0
Asia	**2018**	**1,431**	**544**	**3**	**19**	**1,953**	**0**
	2019	**1,760**	**605**	**203**	**20**	**2,143**	**0**
	2020	**1,372**	**921**	**387**	**..**	**1,905**	**0**
	2021	**1,037**	**1,060**	**230**	**..**	**1,867**	**0**
Georgia	2018	..	3	3	..	0	0
	2019	..	..	..	..	..	..
	2020	..	..	..	..	..	..
	2021	..	..	..	..	..	..
India	2018	*461	..	..	..	*461	0
	2019	*475	..	..	..	*475	0
	2020	*874	..	..	..	*874	*1
	2021	*938	..	..	..	*938	*1
Indonesia	2018	964	540	0	19	1,485	6
	2019	1,021	603	203	20	1,401	5
	2020	456	914	387	..	983	4
	2021	80	1,058	230	..	908	3
Saudi Arabia	2018	..	1	..	..	1	0
	2019	..	3	..	..	3	0
	2020	..	7	..	..	7	0
	2021	..	2	..	..	2	0
Uzbekistan	2018	6	..	..	..	6	0
	2019	264	..	..	..	264	8
	2020	41	..	..	..	41	1
	2021	19	..	..	..	19	1
Europe	**2018**	**9,884**	**939**	**1,787**	**326**	**8,709**	**12**
	2019	**8,888**	**860**	**1,567**	**276**	**7,905**	**11**
	2020	**7,553**	**660**	**1,288**	**-39**	**6,964**	**9**
	2021	**8,208**	**762**	**1,460**	**-62**	**7,572**	**10**
Austria	2018	..	13	0	..	13	1
	2019	..	10	0	..	10	1
	2020	..	10	0	..	10	1
	2021	..	12	0	..	12	1
Belarus	2018	1,055	..	164	35	856	88
	2019	962	..	120	75	767	79
	2020	694	..	64	-44	674	70
	2021	876	..	116	..	760	79
Belgium	2018	..	383	..	0	383	33
	2019	..	324	..	..	324	28
	2020	..	229	..	1	229	20
	2021	..	266	..	-1	267	23

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
Bulgaria	2018	980	..	..	210	770	108
	2019	749	..	..	134	615	87
	2020	757	..	..	16	741	106
	2021	1,037	..	..	-22	1,060	154
Czechia	2018	145	236	126	2	253	24
	2019	136	209	113	3	229	22
	2020	154	194	133	-2	217	21
	2021	134	253	109	2	276	26
France	2018	..	45	..	0	45	1
	2019	..	51	..	0	51	1
	2020	..	17	..	0	17	0
	2021	..	25	..	0	25	0
Germany	2018	6,612	14	1,477	30	5,119	62
	2019	5,949	14	1,318	17	4,628	56
	2020	5,203	15	1,067	-26	4,178	50
	2021	5,477	11	1,229	-21	4,280	51
Hungary	2018	..	41	..	..	41	4
	2019	..	39	..	..	39	4
	2020	..	33	..	..	33	3
	2021	..	36	..	..	36	4
Ireland	2018	146	23	16	-34	187	39
	2019	123	21	13	-16	146	30
	2020	141	14	13	-14	156	32
	2021	124	28	6	0	146	29
Latvia	2018	1	..	1	-1	1	1
	2019	2	..	1	0	1	1
	2020	2	..	1	0	1	1
	2021	2	..	0	0	1	1
Lithuania	2018	4	73	1	1	75	26
	2019	3	58	1	-1	61	21
	2020	3	39	0	-1	42	15
	2021	3	51	1	2	52	19
Luxembourg	2018	..	9	..	..	9	14
	2019	..	9	..	..	9	14
	2020	..	9	..	..	9	14
	2021	..	11	..	..	11	18
Netherlands (Kingd. of the)	2018	..	38	..	..	38	2
	2019	..	43	..	..	43	2
	2020	..	11	..	..	11	1
	2021	..	13	..	..	13	1
Poland	2018	..	44	..	0	44	1
	2019	..	41	1	0	40	1
	2020	..	6	..	0	6	0
	2021	..	2	..	0	2	0
Russian Federation	2018	29	0	0	0	30	0
	2019	31	..	..	0	31	0
	2020	43	..	..	14	29	0
	2021	37	..	..	-7	44	0
Serbia	2018	422	2	2	-15	437	59
	2019	360	3	..	-45	407	55
	2020	399	1	..	11	389	53
	2021	306	2	..	-15	322	44

Table 11

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
Slovakia	2018	..	17	..	-1	18	3
	2019	..	38	..	-1	39	7
	2020	..	39	..	-1	40	7
	2021	..	52	..	..	52	10
Ukraine	2018	490	..	..	99	391	9
	2019	574	..	..	110	464	10
	2020	159	42	10	11	180	4
	2021	212	..	..	..	212	5
Latin America & Carib.	**2018**	**..**	**1**	**..**	**..**	**1**	**0**
	2019	**..**	**2**	**..**	**..**	**2**	**0**
	2020	**..**	**2**	**..**	**..**	**2**	**0**
	2021	**..**	**2**	**..**	**..**	**2**	**0**
Mexico	2018	..	1	..	..	1	0
	2019	..	2	..	..	2	0
	2020	..	2	..	..	2	0
	2021	..	2	..	..	2	0
Oceania	**2018**	**..**	**1**	**..**	**..**	**1**	**0**
	2019	**..**	**1**	**..**	**..**	**1**	**0**
	2020	**..**	**..**	**..**	**..**	**..**	**..**
	2021	**..**	**1**	**..**	**..**	**1**	**0**
Australia	2018	..	1	..	..	1	0
	2019	..	1	..	..	1	0
	2020	..	..	..	..	..	..
	2021	..	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 29: World production of peat, 1990-2021

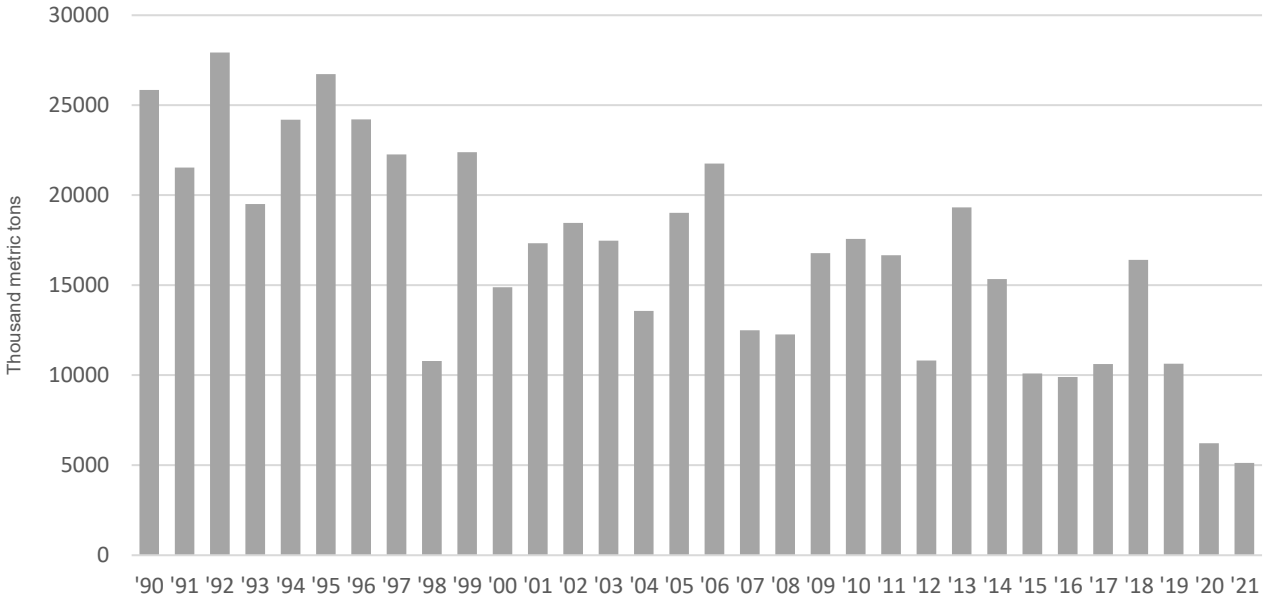


Figure 30: Major peat producing countries, 2021

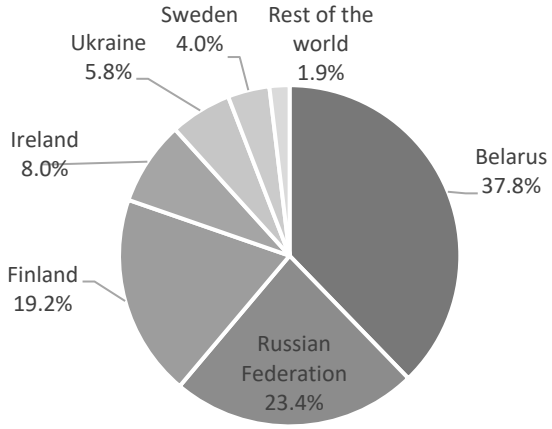


Figure 31: Major peat consuming countries, 2021

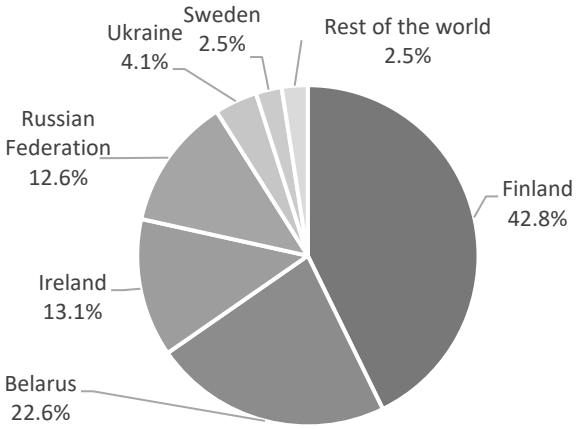


Table 12

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	**2018**	**16,403**	**324**	**183**	**2,383**	**14,160**	**2**
	2019	**10,632**	**314**	**246**	**-2,177**	**12,877**	**2**
	2020	**6,213**	**264**	**290**	**-3,387**	**9,574**	**1**
	2021	**5,118**	**266**	**180**	**-3,355**	**8,560**	**1**
Africa	**2018**	**27**	**..**	**..**	**..**	**27**	**0**
	2019	**37**	**..**	**..**	**..**	**37**	**0**
	2020	**23**	**..**	**..**	**..**	**23**	**0**
	2021	**34**	**0**	**..**	**..**	**34**	**0**
Burundi	2018	12	..	..	..	12	1
	2019	15	..	..	..	15	1
	2020	10	..	..	..	10	1
	2021	13	..	..	..	13	1
Rwanda	2018	*16	..	..	..	*16	*1
	2019	*22	..	..	..	*22	*2
	2020	*13	..	..	..	*13	*1
	2021	*22	..	..	..	*22	*2
Asia	**2018**	**3**	**31**	**3**	**..**	**31**	**0**
	2019	**4**	**38**	**4**	**..**	**38**	**0**
	2020	**5**	**44**	**5**	**..**	**44**	**0**
	2021	**..**	**41**	**0**	**..**	**41**	**0**
Georgia	2018	3	3	3	..	3	1
	2019	4	7	4	..	7	2
	2020	5	7	5	..	7	2
	2021	..	..	..	..	..	..
Saudi Arabia	2018	..	27	0	..	27	1
	2019	..	29	0	..	29	1
	2020	..	35	0	..	35	1
	2021	..	39	0	..	38	1
Uzbekistan	2018	..	1	..	..	1	0
	2019	..	3	..	..	3	0
	2020	..	2	..	..	2	0
	2021	..	3	..	..	3	0
Europe	**2018**	**16,367**	**272**	**180**	**2,383**	**14,076**	**19**
	2019	**10,585**	**259**	**242**	**-2,177**	**12,780**	**17**
	2020	**6,183**	**220**	**285**	**-3,387**	**9,504**	**13**
	2021	**5,081**	**225**	**179**	**-3,355**	**8,482**	**11**
Belarus	2018	2,354	..	..	141	2,213	228
	2019	2,269	..	..	205	2,064	213
	2020	1,578	..	..	-76	1,654	172
	2021	1,933	..	..	..	1,933	202
Estonia	2018	92	..	0	-49	141	107
	2019	65	..	..	-31	96	72
	2020	40	..	..	-24	64	48
	2021	35	..	..	16	20	15
Finland	2018	7,646	44	..	1,606	6,084	1,103
	2019	4,207	54	..	-1,164	5,425	983
	2020	2,325	36	..	-1,780	4,141	749
	2021	981	35	..	-2,645	3,661	661
Ireland	2018	3,871	..	..	687	3,184	659
	2019	1,706	..	..	-1,171	2,877	588
	2020	408	..	..	-1,504	1,912	386
	2021	408	..	..	-715	1,123	225

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
Latvia	2018	7	..	1	-6	12	6
	2019	8	..	..	2	5	3
	2020	0	..	1	-4	3	2
	2021	2	..	0	-3	5	3
Lithuania	2018	28	..	3	-26	51	18
	2019	30	..	2	-3	31	11
	2020	18	..	1	-3	20	7
	2021	17	..	2	-8	23	8
Romania	2018	6	65	0	0	71	4
	2019	1	70	1	..	70	4
	2020	2	76	0	..	78	4
	2021	6	79	0	..	85	4
Russian Federation	2018	1,288	44	157	57	1,118	8
	2019	1,398	40	230	-30	1,237	8
	2020	1,343	55	272	4	1,122	8
	2021	1,197	42	163	..	1,075	7
Sweden	2018	535	97	..	..	632	62
	2019	362	60	..	..	422	41
	2020	197	10	..	..	207	20
	2021	203	7	..	..	210	20
Ukraine	2018	540	22	19	-27	570	13
	2019	540	35	9	13	553	13
	2020	272	43	11	..	303	7
	2021	299	63	14	..	348	8
Latin America & Carib.	**2018**	**5**	**20**	**..**	**..**	**25**	**0**
	2019	**5**	**17**	**..**	**..**	**22**	**0**
	2020	**3**	**0**	**..**	**..**	**3**	**0**
	2021	**3**	**0**	**..**	**..**	**3**	**0**
Falkland Is. (Malvinas)	2018	5	..	..	..	5	1,368
	2019	5	..	..	..	5	1,348
	2020	3	..	..	..	3	701
	2021	3	..	..	..	3	698
Guyana	2018	..	20	..	..	20	26
	2019	..	17	..	..	17	21
	2020	..	0	..	..	0	1
	2021	..	0	..	..	0	0

Production of biofuels and wastes

Terajoules

Table Notes

The conversion of fuelwood (solid volume, 9.135 TJ/m^3) 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) or from the FAOSTAT database of the Food and Agriculture Organization of the United Nations.

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 32: Production of fuelwood by region, 1990-2021

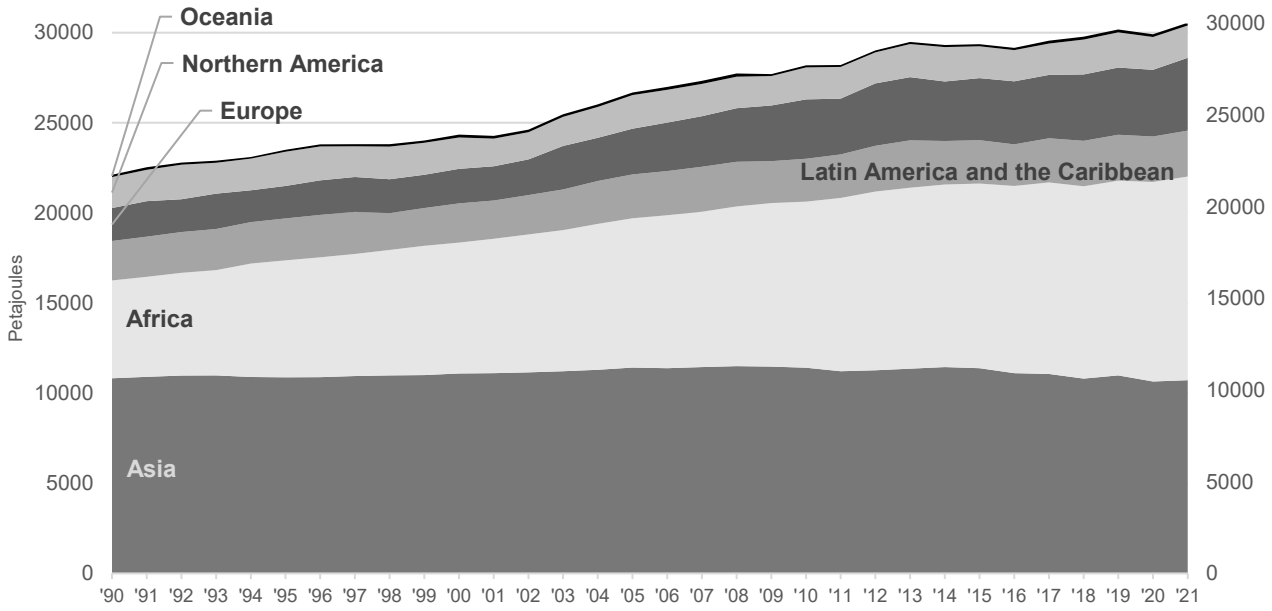


Figure 33: Production of charcoal by region, 1990-2021

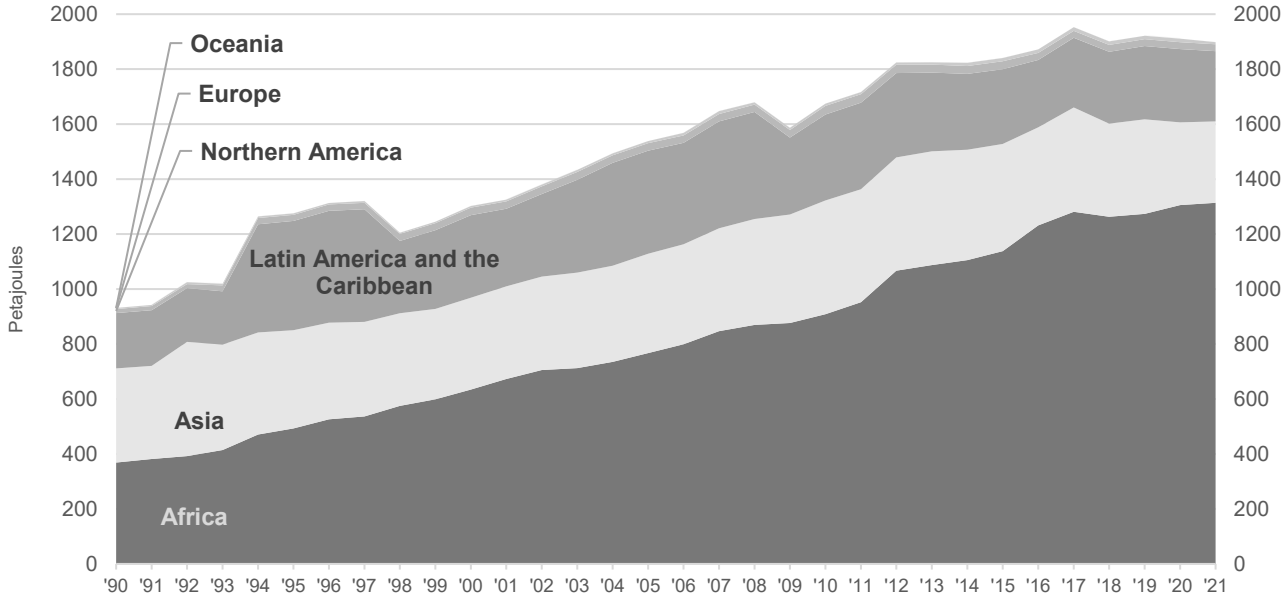


Figure 34: Production of total solid biofuels by region, 2021

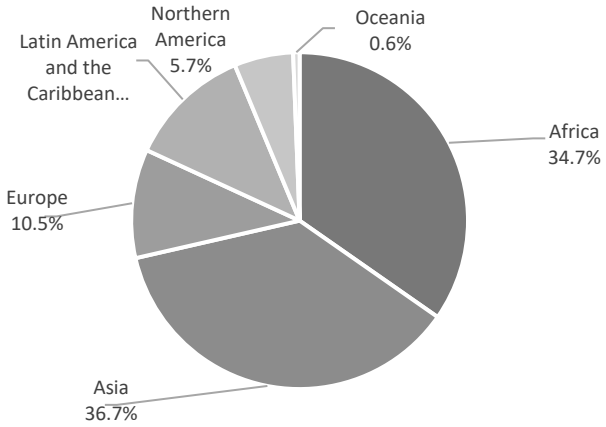


Figure 35: Production of biogases by region, 2021

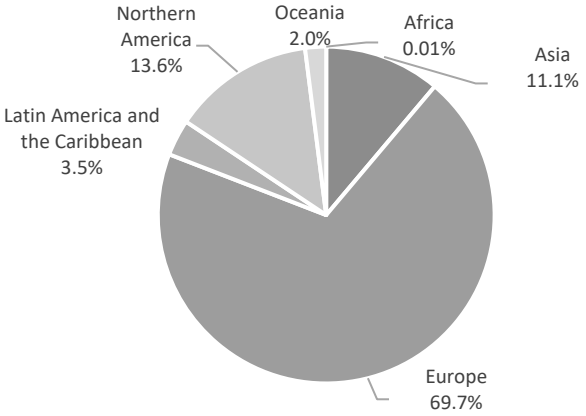


Figure 36: Production of bagasse by region, 2021

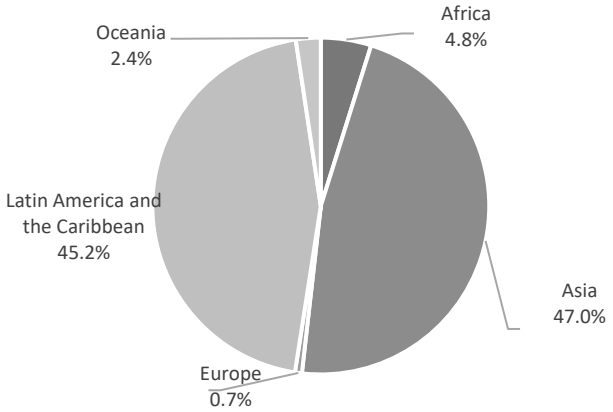


Figure 37: Production of liquids biofuels by region, 2021

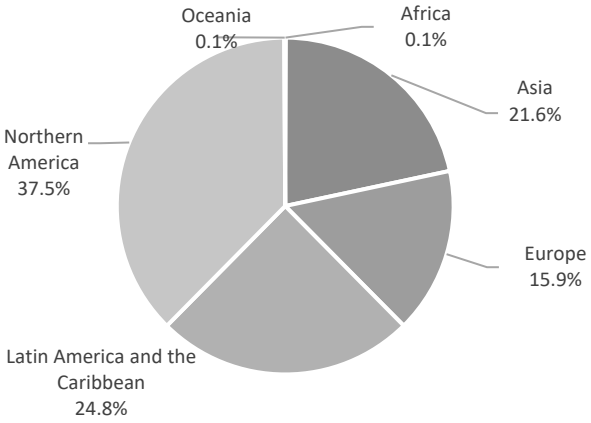


Figure 38: Production of energy from waste by region, 2021

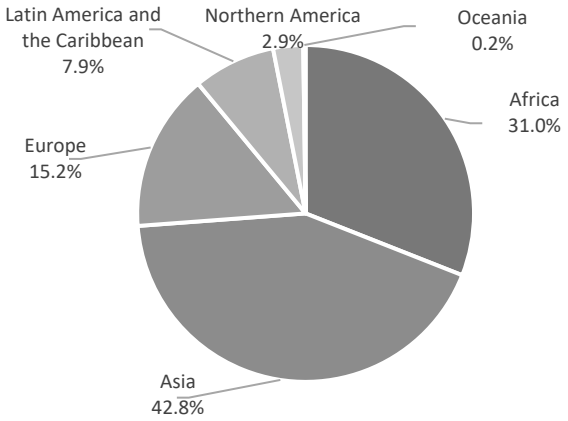


Table 13

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
World	**2018**	**29,773,416**	**322,289**	**9,145,987**	**4,039,098**	**1,790,285**	**1,901,646**
	2019	**30,175,630**	**323,996**	**9,119,556**	**3,986,262**	**1,810,160**	**1,921,597**
	2020	**29,907,409**	**325,761**	**9,316,416**	**4,059,535**	**1,706,782**	**1,911,100**
	2021	**30,550,963**	**327,357**	**9,771,456**	**3,899,366**	**1,795,653**	**1,898,734**
Africa	**2018**	**10,667,505**	**171,177**	**3,464,616**	**196,701**	**..**	**1,262,918**
	2019	**10,800,922**	**174,605**	**3,575,589**	**198,401**	**..**	**1,273,227**
	2020	**11,068,555**	**177,912**	**3,669,461**	**200,349**	**..**	**1,305,683**
	2021	**11,304,113**	**181,938**	**3,752,952**	**188,669**	**..**	**1,313,777**
Algeria	2018	1,032	..	..	..	..	..
	2019	484	..	..	..	..	..
	2020	475	..	..	..	..	..
	2021	119	..	..	..	..	..
Angola	2018	161,604	..	105,044	*1,382	..	33,778
	2019	163,722	..	106,421	*1,422	..	34,214
	2020	165,838	..	107,797	*1,429	..	34,663
	2021	*167,045	..	*112,666	*1,429	..	35,840
Benin	2018	113,912	..	3,348	..	..	15,258
	2019	117,218	..	3,386	..	..	15,676
	2020	120,634	..	3,595	..	..	16,134
	2021	119,615	..	4,691	..	..	16,603
Botswana	2018	6,389	..	..	..	..	2,216
	2019	6,390	..	..	..	..	2,216
	2020	6,391	..	..	..	..	2,216
	2021	6,391	..	..	..	..	2,216
Burkina Faso	2018	169,684	..	1,613	1,082	..	31,211
	2019	174,888	..	1,650	1,084	..	30,562
	2020	*176,634	..	*1,663	*1,095	..	30,857
	2021	*181,047	..	*1,696	*1,122	..	31,624
Burundi	2018	54,801	..	..	492	..	7,788
	2019	54,801	..	..	468	..	7,788
	2020	54,801	..	..	514	..	7,788
	2021	54,801	..	..	400	..	7,788
Cabo Verde	2018	*1,399	..	..	..	..	*19
	2019	*1,385	..	..	..	..	*20
	2020	*1,370	..	..	..	..	*19
	2021	*1,370	..	..	..	..	*19
Cameroon	2018	277,790	..	5,448	1,487	..	7,394
	2019	285,599	..	5,601	1,538	..	7,602
	2020	293,453	..	5,755	1,546	..	7,811
	2021	301,296	..	5,908	1,603	..	8,020
Central African Rep.	2018	*33,579	..	..	..	..	*434
	2019	*33,831	..	..	..	..	*445
	2020	*34,058	..	..	..	..	*443
	2021	*34,439	..	..	..	..	*440
Chad	2018	72,916	..	..	*949	..	14,485
	2019	73,920	..	..	*985	..	14,839
	2020	74,948	..	..	*927	..	15,200
	2021	75,991	..	..	*942	..	15,606
Comoros	2018	*4,271	..	*160	..	..	*266
	2019	*4,202	..	*160	..	..	*266
	2020	*4,147	..	*160	..	..	*266
	2021	*4,102	..	*160	..	..	*266
Congo	2018	52,483	..	15,862	..	..	7,094
	2019	53,228	..	16,087	..	..	7,194
	2020	53,983	..	16,316	..	..	7,296
	2021	54,771	..	16,554	..	..	7,403

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
1,137,551	**1,390,034**	**2,330,306**	**1,669,520**	**1,012,543**	**52,611,028**
1,133,220	**1,395,067**	**2,366,839**	**1,812,849**	**1,006,915**	**53,130,494**
1,154,790	**1,403,274**	**2,133,332**	**1,765,385**	**1,032,851**	**52,805,535**
1,201,131	**1,415,913**	**2,224,190**	**1,962,955**	**1,060,527**	**54,209,510**
3,106	**2,095**	**2,297**	**..**	**128**	**14,507,625**
3,106	**1,393**	**2,449**	**..**	**118**	**14,756,583**
2,881	**1,407**	**2,504**	**..**	**134**	**15,123,202**
3,142	**1,428**	**2,575**	**..**	**118**	**15,434,935**
..	..	..	..	..	1,032
..	..	..	..	..	484
..	..	..	..	..	475
..	..	..	..	..	119
..	..	..	..	..	268,031
..	..	..	..	..	271,566
..	..	..	..	..	275,064
..	..	..	..	..	*281,140
..	..	..	..	..	117,259
..	..	..	..	..	120,604
..	..	..	..	..	124,229
..	..	..	..	..	124,306
..	..	..	..	..	6,389
..	..	..	..	..	6,390
..	..	..	..	..	6,391
..	..	..	..	..	6,391
..	2,095	..	..	*36	174,510
..	1,393	..	..	*36	179,051
..	*1,407	..	..	*36	*180,835
..	*1,428	..	..	*36	*185,329
..	..	..	..	..	55,293
..	..	..	..	..	55,268
..	..	..	..	..	55,315
..	..	..	..	..	55,201
..	..	..	..	..	*1,399
..	..	..	..	..	*1,385
..	..	..	..	..	*1,370
..	..	..	..	..	*1,370
..	..	..	..	7	284,731
..	..	..	..	7	292,745
..	..	..	..	7	300,761
..	..	..	..	7	308,814
..	..	..	..	..	*33,579
..	..	..	..	..	*33,831
..	..	..	..	..	*34,058
..	..	..	..	..	*34,439
..	..	..	..	..	73,865
..	..	..	..	..	74,906
..	..	..	..	..	75,874
..	..	..	..	..	76,933
..	..	..	..	..	*4,431
..	..	..	..	..	*4,362
..	..	..	..	..	*4,307
..	..	..	..	..	*4,262
..	..	..	..	..	68,346
..	..	..	..	..	69,315
..	..	..	..	..	70,299
..	..	..	..	..	71,325

Table 13

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Côte d'Ivoire	2018	230,190	..	4,857	..	..	37,674
	2019	249,701	..	3,894	..	..	41,379
	2020	264,606	..	4,647	..	..	42,459
	2021	321,224	..	6,838	..	..	67,319
Dem. Rep. of the Congo	2018	1,191,222	..	..	4,654	..	243,717
	2019	1,219,458	..	..	4,131	..	249,494
	2020	1,270,090	..	..	4,131	..	256,921
	2021	1,311,685	..	..	*4,170	..	265,335
Djibouti	2018	3,650	..	..	..	..	1,595
	2019	3,696	..	..	..	..	1,615
	2020	3,743	..	..	..	..	1,636
	2021	3,790	..	..	..	..	1,658
Egypt	2018	141,672	..	..	*23,915	..	42,950
	2019	142,632	..	..	*23,939	..	43,279
	2020	143,592	..	..	32,247	..	43,610
	2021	144,517	..	..	26,726	..	43,927
Equatorial Guinea	2018	4,083	..	..	..	..	324
	2019	4,083	..	..	..	..	324
	2020	4,083	..	..	..	..	338
	2021	4,083	..	..	..	..	344
Eritrea	2018	25,797	2,733	1,489	..	..	4,782
	2019	26,133	2,770	1,508	..	..	4,841
	2020	26,500	2,808	1,529	..	..	4,908
	2021	26,911	2,852	1,553	..	..	4,985
Eswatini	2018	11,748	..	..	13,401	..	*295
	2019	13,308	..	..	12,304	..	*295
	2020	12,038	..	..	12,452	..	*295
	2021	12,147	..	..	11,387	..	*295
Ethiopia	2018	1,275,594	159,501	156,343	2,798	..	47,043
	2019	1,305,207	162,923	159,697	3,241	..	48,316
	2020	1,334,603	166,332	163,038	2,909	..	49,583
	2021	1,370,236	170,720	167,340	2,529	..	50,891
Gabon	2018	*51,975	..	2,138	631	..	687
	2019	*52,070	..	2,718	619	..	698
	2020	*52,290	..	2,682	623	..	709
	2021	*52,385	..	2,647	624	..	720
Gambia	2018	6,997	..	..	..	..	2,045
	2019	7,074	..	..	..	..	2,083
	2020	7,153	..	..	..	..	2,121
	2021	*7,153	..	..	..	..	2,161
Ghana	2018	176,833	..	..	..	..	52,963
	2019	173,064	..	..	..	..	52,066
	2020	178,994	..	..	..	..	54,453
	2021	174,939	..	..	..	..	45,312
Guinea	2018	112,730	..	..	*638	..	12,140
	2019	113,089	..	..	*647	..	12,377
	2020	113,461	..	..	*649	..	12,619
	2021	113,861	..	..	*653	..	12,863
Guinea-Bissau	2018	26,434	..	..	..	..	2,271
	2019	26,434	..	..	..	..	2,271
	2020	27,073	..	..	..	..	2,374
	2021	27,389	..	..	..	..	2,429
Kenya	2018	*510,000	..	25,879	11,676	..	115,758
	2019	*505,000	..	*26,474	*11,946	..	118,413
	2020	*501,000	..	*22,985	*11,907	..	121,127
	2021	*497,000	..	*23,013	*12,301	..	79,234

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	..	..	..	..	235,047
..	..	..	..	..	253,594
..	..	..	..	..	269,253
..	..	..	..	..	328,062
..	..	..	..	..	1,195,876
..	..	..	..	..	1,223,589
..	..	..	..	..	1,274,221
..	..	..	..	..	1,315,855
..	..	..	..	..	3,650
..	..	..	..	..	3,696
..	..	..	..	..	3,743
..	..	..	..	..	3,790
..	..	..	..	..	165,587
..	..	..	..	..	166,571
..	..	..	..	..	175,839
..	..	..	..	..	171,243
..	..	..	..	..	4,083
..	..	..	..	..	4,083
..	..	..	..	..	4,083
..	..	..	..	..	4,083
..	..	..	..	..	30,019
..	..	..	..	..	30,411
..	..	..	..	..	30,837
..	..	..	..	..	31,315
..	..	..	..	..	25,149
..	..	..	..	..	25,611
..	..	..	..	..	24,490
..	..	..	..	..	23,534
..	..	161	..	..	1,594,396
..	..	170	..	..	1,631,238
..	..	303	..	..	1,667,186
..	..	322	..	..	1,711,147
..	..	..	..	..	*54,744
..	..	..	..	..	*55,406
..	..	..	..	..	*55,595
..	..	..	..	..	*55,655
..	..	..	..	..	6,997
..	..	..	..	..	7,074
..	..	..	..	..	7,153
..	..	..	..	..	*7,153
..	..	..	..	..	176,833
..	..	..	..	..	173,064
..	..	..	..	..	178,994
..	..	..	..	..	174,939
..	..	..	..	..	113,367
..	..	..	..	..	113,736
..	..	..	..	..	114,110
..	..	..	..	..	114,514
..	..	..	..	..	26,434
..	..	..	..	..	26,434
..	..	..	..	..	27,073
..	..	..	..	..	27,389
..	..	..	..	4	*547,559
..	..	..	..	4	*543,424
..	..	..	..	2	*535,894
..	..	..	..	6	*532,320

Table 13

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Lesotho	2018	*9,994	*6,588	*112	..	..	153
	2019	*9,793	*6,439	*85	..	..	*153
	2020	*9,857	*6,292	*64	..	..	0
	2021	*9,884	*6,149	*49	..	..	0
Liberia	2018	83,734	..	..	..	..	9,197
	2019	86,462	..	..	..	..	9,513
	2020	89,276	..	..	..	..	9,853
	2021	92,181	..	..	..	..	*10,178
Libya	2018	24,942	..	..	..	..	3,371
	2019	25,222	..	..	..	..	3,405
	2020	25,497	..	..	..	..	3,439
	2021	25,768	..	..	..	..	3,474
Madagascar	2018	299,749	..	..	2,497	..	27,199
	2019	312,613	..	..	2,487	..	28,497
	2020	*325,117	..	..	*2,462	..	*29,636
	2021	*338,122	..	..	*2,511	..	*30,822
Malawi	2018	53,936	..	..	*6,772	..	17,429
	2019	54,530	..	..	*6,772	..	17,819
	2020	55,146	..	..	*6,772	..	18,217
	2021	55,790	..	..	*6,772	..	18,633
Mali	2018	191,835	..	..	896	..	16,815
	2019	198,740	..	..	896	..	17,435
	2020	205,897	..	..	896	..	18,054
	2021	*206,640	..	..	*896	..	*18,290
Mauritania	2018	19,814	..	..	..	..	6,682
	2019	20,179	..	..	..	..	6,844
	2020	20,563	..	..	..	..	6,992
	2021	20,947	..	..	..	..	7,139
Mauritius	2018	204	..	..	8,690	..	15
	2019	162	..	..	8,541	..	12
	2020	145	..	..	7,087	..	6
	2021	139	..	..	6,716	..	9
Morocco	2018	61,328	..	..	1,332	..	602
	2019	61,315	..	..	1,122	..	616
	2020	60,685	..	..	1,714	..	622
	2021	59,916	..	..	1,326	..	636
Mozambique	2018	277,340	..	13,343	9,706	..	48,182
	2019	282,243	..	13,145	9,520	..	48,647
	2020	287,166	..	12,966	8,988	..	49,125
	2021	292,143	..	12,761	9,179	..	49,613
Namibia	2018	15,718	..	1,600	..	..	5,404
	2019	18,426	..	1,594	..	..	6,737
	2020	20,161	..	1,496	..	..	7,592
	2021	21,366	..	1,532	..	..	8,186
Niger	2018	*65,932	*803	*647	..	..	1,652
	2019	*68,537	*876	*705	..	..	1,711
	2020	*71,283	*949	*763	..	..	1,800
	2021	*71,481	*942	*765	..	..	*1,859
Nigeria	2018	2,347,336	..	*2,549,355	757	..	120,959
	2019	2,365,022	..	*2,612,528	*541	..	122,991
	2020	2,383,177	..	*2,677,075	*548	..	125,056
	2021	2,401,664	..	*2,742,278	*548	..	127,108
Rwanda	2018	*84,526	..	..	253	..	*18,467
	2019	*84,526	..	..	248	..	*18,467
	2020	*84,800	..	..	*243	..	*18,556
	2021	*84,800	..	..	*243	..	*18,556

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	..	..	..	..	*16,694
..	..	..	..	..	*16,316
..	..	..	..	..	*16,213
..	..	..	..	..	*16,082
..	..	..	..	..	83,734
..	..	..	..	..	86,462
..	..	..	..	..	89,276
..	..	..	..	..	92,181
..	..	..	..	..	24,942
..	..	..	..	..	25,222
..	..	..	..	..	25,497
..	..	..	..	..	25,768
..	..	..	..	..	302,246
..	..	..	..	..	315,100
..	..	..	..	..	*327,579
..	..	..	..	..	*340,634
*98	..	419	..	..	61,224
*98	..	371	..	..	61,772
*98	..	307	..	..	62,323
*98	..	316	..	..	62,976
..	..	..	..	..	192,731
..	..	..	..	..	199,636
..	..	..	..	..	206,792
..	..	..	..	..	*207,536
..	..	..	..	..	19,814
..	..	..	..	..	20,179
..	..	..	..	..	20,563
..	..	..	..	..	20,947
..	..	..	..	81	8,975
..	..	..	..	71	8,775
..	..	..	..	89	7,321
..	..	..	..	69	6,923
3,008	..	..	..	..	65,669
3,008	..	..	..	..	65,445
2,783	..	..	..	..	65,182
3,044	..	..	..	..	64,286
..	..	..	..	..	300,389
..	..	..	..	..	304,908
..	..	..	..	..	309,120
..	..	..	..	..	314,083
..	..	..	..	..	17,318
..	..	..	..	..	20,020
..	..	..	..	..	21,657
..	..	..	..	..	22,898
..	..	..	..	..	*67,382
..	..	..	..	..	*70,118
..	..	..	..	..	*72,995
..	..	..	..	..	*73,188
..	..	..	..	..	*4,897,448
..	..	..	..	..	*4,978,090
..	..	..	..	..	*5,060,800
..	..	..	..	..	*5,144,490
..	..	..	..	..	*84,779
..	..	..	..	..	*84,774
..	..	..	..	..	*85,043
..	..	..	..	..	*85,043

Table 13

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	2018	1,039	..	..	..	..	289
	2019	1,039	..	..	..	..	289
	2020	1,051	..	..	..	..	295
	2021	*1,051	..	..	..	..	*295
Senegal	2018	63,838	..	252	3,536	..	5,387
	2019	65,601	..	1,513	5,880	..	5,476
	2020	75,144	..	1,680	6,003	..	6,728
	2021	76,709	..	1,885	3,642	..	6,918
Seychelles	2018	29	..	..	..	..	..
	2019	29	..	..	..	..	..
	2020	29	..	..	..	..	..
	2021	29	..	..	..	..	..
Sierra Leone	2018	54,143	..	*72	*201	..	13,629
	2019	54,572	..	*72	*201	..	13,924
	2020	55,038	..	*72	*201	..	14,249
	2021	55,519	..	*72	*201	..	14,561
Somalia	2018	142,539	..	..	497	..	38,816
	2019	146,278	..	..	503	..	40,235
	2020	150,132	..	..	460	..	41,704
	2021	154,103	..	..	461	..	43,230
South Africa	2018	176,469	..	..	56,669	..	11,250
	2019	181,711	..	..	56,494	..	11,447
	2020	198,309	..	..	53,494	..	12,750
	2021	191,857	..	..	52,821	..	11,578
South Sudan	2018	8,409	..	..	..	..	345
	2019	8,449	..	..	..	..	347
	2020	8,570	..	..	..	..	352
	2021	8,679	..	..	..	..	357
St. Helena and Depend.	2018	5	..	..	..	..	..
	2019	5	..	..	..	..	..
	2020	5	..	..	..	..	..
	2021	5	..	..	..	..	..
Sudan	2018	244,566	..	*9,513	*16,989	..	59,502
	2019	*180,142	..	*9,588	*17,004	..	*29,500
	2020	*143,034	..	9,658	16,742	..	21,703
	2021	*159,406	..	*9,725	*16,757	..	21,703
Togo	2018	123,097	..	1,367	..	..	22,332
	2019	127,498	..	1,415	..	..	23,128
	2020	135,797	..	1,495	..	..	24,633
	2021	126,387	..	2,150	..	..	25,222
Tunisia	2018	39,708	1,551	4,377	..	..	6,726
	2019	39,946	1,598	4,321	..	..	6,873
	2020	40,193	1,530	*4,340	..	..	7,028
	2021	40,285	1,275	*3,100	..	..	7,139
Uganda	2018	529,379	..	186,800	11,898	..	60,960
	2019	550,564	..	193,277	11,892	..	76,954
	2020	631,742	..	215,136	11,589	..	84,054
	2021	651,340	..	219,859	11,609	..	94,571
United Rep. of Tanzania	2018	561,390	..	207,727	6,741	..	49,088
	2019	569,782	..	239,151	7,761	..	48,989
	2020	578,493	..	240,519	7,822	..	51,784
	2021	596,909	..	234,223	7,599	..	53,237
Zambia	2018	269,585	..	46,025	*3,475	..	34,008
	2019	274,789	..	46,914	*3,475	..	34,665
	2020	280,017	..	47,806	*3,475	..	35,324
	2021	*282,336	..	52,770	*3,500	..	*36,875

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	..	..	..	..	1,039
..	..	..	..	..	1,039
..	..	..	..	..	1,051
..	..	..	..	..	*1,051
..	..	..	..	..	67,626
..	..	..	..	..	72,994
..	..	..	..	..	82,826
..	..	..	..	..	82,236
..	..	..	..	..	29
..	..	..	..	..	29
..	..	..	..	..	29
..	..	..	..	..	29
..	..	..	..	..	54,416
..	..	..	..	..	54,845
..	..	..	..	..	55,311
..	..	..	..	..	55,792
..	..	..	..	..	143,036
..	..	..	..	..	146,782
..	..	..	..	..	150,592
..	..	..	..	..	154,564
..	..	..	..	..	233,138
..	..	..	..	..	238,205
..	..	..	..	..	251,803
..	..	..	..	..	244,679
..	..	..	..	..	8,409
..	..	..	..	..	8,449
..	..	..	..	..	8,570
..	..	..	..	..	8,679
..	..	..	..	..	5
..	..	..	..	..	5
..	..	..	..	..	5
..	..	..	..	..	5
..	..	..	..	..	271,067
..	..	..	..	..	*206,733
..	..	..	..	..	*169,433
..	..	..	..	..	*185,888
..	..	..	..	..	124,464
..	..	..	..	..	128,913
..	..	..	..	..	137,292
..	..	..	..	..	128,537
..	..	..	..	..	45,636
..	..	..	..	..	45,864
..	..	..	..	..	46,063
..	..	..	..	..	44,660
..	..	..	..	..	728,077
..	..	..	..	..	755,734
..	..	..	..	..	858,467
..	..	..	..	..	882,809
..	..	..	..	..	775,859
..	..	..	..	..	816,694
..	..	..	..	..	826,835
..	..	..	..	..	838,731
..	..	..	..	..	319,085
..	..	..	..	..	325,178
..	..	..	..	..	331,299
..	..	..	..	..	*338,606

Table 13

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Zimbabwe	2018	198,139	..	121,247	2,687	..	277
	2019	202,127	..	123,687	2,741	..	282
	2020	206,274	..	126,225	1,423	..	288
	2021	*210,348	..	*128,718	*3	..	294
Asia	**2018**	**10,810,193**	**132,322**	**4,342,272**	**2,004,023**	**176,397**	**338,979**
	2019	**10,989,663**	**129,675**	**4,406,385**	**1,898,079**	**172,494**	**344,476**
	2020	**10,646,993**	**128,403**	**4,455,329**	**1,836,114**	**145,834**	**300,494**
	2021	**10,718,973**	**127,525**	**4,581,652**	**1,830,998**	**159,220**	**296,002**
Afghanistan	2018	17,266	..	..	..	..	4,149
	2019	17,578	..	..	..	..	4,265
	2020	17,898	..	..	..	..	4,384
	2021	18,224	..	..	..	..	4,508
Armenia	2018	4,797	2,827	..	..	..	..
	2019	4,976	2,762	..	..	..	..
	2020	5,339	2,863	..	..	..	..
	2021	4,581	2,770	..	..	..	..
Azerbaijan	2018	1,488	..	187	..	..	3
	2019	1,413	..	408	..	..	3
	2020	974	..	397	..	..	2
	2021	838	..	372	..	..	3
Bahrain	2018	66	..	..	..	..	34
	2019	66	..	..	..	..	35
	2020	64	..	..	..	..	35
	2021	68	..	..	..	..	36
Bangladesh	2018	235,268	103,118	196,272	1,771	..	9,998
	2019	233,025	101,766	193,698	*1,949	..	10,023
	2020	230,812	100,810	191,878	*1,977	..	10,048
	2021	228,592	99,863	190,075	*1,958	..	10,076
Bhutan	2018	47,831	..	..	..	..	252
	2019	48,209	..	..	..	..	257
	2020	48,591	..	..	..	..	263
	2021	48,976	..	..	..	..	263
Brunei Darussalam	2018	106	..	..	..	..	10
	2019	106	..	..	..	..	10
	2020	106	..	..	..	..	10
	2021	106	..	..	..	..	10
Cambodia	2018	65,130	..	488	..	..	9,794
	2019	63,554	..	1,388	..	..	9,470
	2020	65,015	..	1,505	..	..	*8,791
	2021	63,923	..	*1,510	..	..	*8,644
China	2018	1,488,262	..	1,788,786	294,675	..	47,900
	2019	1,460,521	..	1,788,786	261,810	..	47,510
	2020	1,433,306	..	1,788,786	*270,274	..	47,123
	2021	1,422,611	..	1,788,786	*270,274	..	46,727
China, Macao SAR	2018	..	..	..	..	..	..
	2019	..	..	..	..	..	..
	2020	..	..	..	..	..	..
	2021	..	..	..	..	..	..
Cyprus	2018	786	..	162	..	..	48
	2019	798	..	246	..	..	40
	2020	761	..	217	..	..	34
	2021	748	..	257	..	..	39
Georgia	2018	11,233	125	42	..	..	..
	2019	10,101	137	32	..	..	..
	2020	9,454	43	31	..	..	..
	2021	8,368	31	19	..	..	..

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	..	1,718	..	..	323,790
..	..	1,908	..	..	330,463
..	..	1,893	..	..	335,815
..	..	1,937	..	..	*341,005
624,174	**176,261**	**137,442**	**633,491**	**96,705**	**19,133,280**
555,599	**177,496**	**151,869**	**746,336**	**104,976**	**19,332,572**
538,061	**172,721**	**138,292**	**729,327**	**106,491**	**18,897,565**
560,004	**177,586**	**131,740**	**772,328**	**118,217**	**19,178,245**
..	..	..	..	..	17,266
..	..	..	..	..	17,578
..	..	..	..	..	17,898
..	..	..	..	..	18,224
..	..	..	..	..	7,623
..	..	..	..	..	7,738
..	..	..	..	..	8,202
..	..	..	..	..	7,352
..	2,966	..	..	..	4,641
..	3,075	..	..	..	4,895
..	3,164	..	..	..	4,535
..	3,019	..	..	..	4,229
..	..	..	..	..	66
..	..	..	..	..	66
..	..	..	..	..	64
..	..	..	..	..	68
..	..	..	..	..	536,429
..	..	..	..	..	530,439
..	..	..	..	..	525,476
..	..	..	..	..	520,488
..	..	..	..	..	47,831
..	..	..	..	..	48,209
..	..	..	..	..	48,591
..	..	..	..	..	48,976
..	..	..	..	..	106
..	..	..	..	..	106
..	..	..	..	..	106
..	..	..	..	..	106
..	..	..	..	..	65,617
..	..	..	..	..	64,942
..	..	..	..	..	66,521
..	..	..	..	..	65,433
221,906	..	*80,400	*323,840	..	4,197,869
181,564	..	85,760	*323,840	..	4,102,281
163,570	..	81,027	*312,800	..	4,049,763
172,807	..	78,344	*323,840	..	4,056,662
..	3,386	..	..	..	3,386
..	3,878	..	..	..	3,878
..	3,423	..	..	..	3,423
..	3,554	..	..	..	3,554
158	52	..	..	554	1,711
164	101	..	..	579	1,889
271	148	..	..	556	1,952
251	316	..	..	559	2,130
..	..	..	..	..	11,399
..	..	..	10	..	10,279
..	..	..	4	..	9,532
..	..	..	0	..	8,419

Table 13

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
India	2018	5,698,172	..	1,037,543	1,056,815	..	*82,187
	2019	5,851,142	..	1,047,001	957,070	..	*80,535
	2020	5,998,430	..	1,092,146	954,022	..	*76,553
	2021	6,160,345	..	1,107,256	974,946	..	*74,724
Indonesia	2018	901,816	..	409,291	52,464	..	47,053
	2019	947,857	..	419,574	*53,782	..	52,923
	2020	569,187	..	493,729	*63,800	..	23,866
	2021	460,937	..	543,435	*51,159	..	23,069
Iran (Islamic Rep. of)	2018	*73,994	*1,175	8,373	..	..	9
	2019	*73,994	*1,175	8,205	..	..	5
	2020	*73,994	*1,175	8,579	..	..	5
	2021	*73,994	*1,175	8,629	..	..	5
Iraq	2018	2,088	..	..	..	..	597
	2019	2,008	..	..	..	..	574
	2020	2,039	..	..	..	..	583
	2021	2,190	..	..	..	..	626
Israel	2018	183	..	..	..	..	..
	2019	183	..	..	..	..	..
	2020	183	..	..	..	..	..
	2021	183	..	..	..	..	..
Japan	2018	77,642	..	79,576	..	146,898	250
	2019	79,194	..	102,947	..	144,794	235
	2020	89,763	..	89,951	..	120,939	217
	2021	92,238	..	117,225	..	133,195	204
Jordan	2018	3,325	..	..	..	..	1,441
	2019	3,397	..	..	..	..	1,473
	2020	3,469	..	..	..	..	1,506
	2021	3,540	..	..	..	..	1,537
Kazakhstan	2018	2,171	..	..	..	..	47
	2019	2,436	..	..	..	..	41
	2020	1,862	..	11	..	..	50
	2021	936	..	..	..	..	43
Korea, Dem.Ppl's.Rep.	2018	46,576	..	..	..	..	4,930
	2019	46,788	..	..	..	..	4,970
	2020	46,992	..	..	..	..	5,011
	2021	47,182	..	..	..	..	5,050
Korea, Republic of	2018	88,260	..	..	..	8,378	..
	2019	76,104	..	..	..	7,857	..
	2020	71,464	..	..	..	7,666	..
	2021	65,786	..	..	..	6,696	..
Kuwait	2018	187	..	..	..	..	92
	2019	189	..	..	..	..	93
	2020	190	..	..	..	..	94
	2021	193	..	..	..	..	95
Kyrgyzstan	2018	96	..	..	..	..	..
	2019	85	..	..	..	..	..
	2020	69	..	..	..	..	..
	2021	54	..	..	..	..	..
Lao People's Dem. Rep.	2018	52,710	..	..	*3,220	..	*6,136
	2019	52,363	..	..	4,031	..	*6,195
	2020	52,025	..	..	*3,830	..	6,048
	2021	*51,687	..	..	*4,015	..	*6,136
Lebanon	2018	*4,971	..	..	..	..	89
	2019	4,971	..	..	..	..	89
	2020	4,931	..	..	..	..	89
	2021	4,928	..	..	..	..	89

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	..	..	..	..	7,792,529
..	..	..	..	..	7,855,214
..	..	..	..	..	8,044,599
..	..	..	..	..	8,242,547
..	..	..	199,745	513	1,563,829
..	..	..	271,993	526	1,693,731
..	..	..	278,282	*526	1,405,524
..	..	..	312,658	*526	1,368,714
..	..	..	..	254	*83,796
..	..	..	..	219	*83,592
..	..	..	..	278	*84,025
..	..	..	..	278	*84,075
..	..	..	..	..	2,088
..	..	..	..	..	2,008
..	..	..	..	..	2,039
..	..	..	..	..	2,190
1,548	1,814	..	..	878	4,423
1,807	2,142	..	..	878	5,010
1,855	2,203	..	..	963	5,204
1,803	1,607	..	..	846	4,439
255,285	30,821	4	431	118	590,774
233,292	32,219	4	465	147	593,062
226,358	29,837	4	382	159	557,393
229,337	31,250	4	382	64	603,694
..	..	..	..	41	3,366
..	..	..	..	42	3,439
..	..	..	..	42	3,511
..	..	..	..	*42	3,582
..	..	..	..	19	2,189
..	..	..	..	43	2,479
..	..	..	..	70	1,943
..	..	85	..	37	1,058
..	..	..	..	..	46,576
..	..	..	..	..	46,788
..	..	..	..	..	46,992
..	..	..	..	..	47,182
108,143	40,155	9,037	23,515	7,406	284,893
102,191	37,090	12,841	23,551	8,108	267,743
107,650	36,229	10,731	23,885	8,384	266,010
110,470	35,270	8,089	24,072	8,043	258,426
..	..	..	..	..	187
..	..	..	..	..	189
..	..	..	..	..	190
..	..	..	..	..	193
..	..	..	..	..	96
..	..	..	..	..	85
..	..	..	..	..	69
..	..	..	..	..	54
..	..	..	..	..	55,930
..	..	..	..	..	56,394
..	..	..	..	..	55,855
..	..	..	..	..	*55,702
..	..	..	..	83	*5,054
..	..	..	..	415	5,386
..	..	..	..	257	5,188
..	..	..	..	..	4,928

Table 13

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Malaysia	2018	22,425	..	*12,581	51	..	867
	2019	22,083	..	12,624	45	..	458
	2020	21,751	..	9,945	51	..	515
	2021	21,438	..	10,886	54	..	..
Maldives	2018	150	..	..	..	..	26
	2019	151	..	..	..	..	26
	2020	152	..	..	..	..	27
	2021	153	..	..	..	..	27
Mongolia	2018	5,481	..	..	..	..	510
	2019	5,481	..	..	..	..	515
	2020	5,772	..	..	..	..	519
	2021	6,686	..	..	..	..	523
Myanmar	2018	311,011	..	36,638	9,545	..	1,394
	2019	334,811	..	33,900	8,842	..	1,310
	2020	335,292	..	30,925	6,479	..	983
	2021	*338,317	..	28,750	6,508	..	*1,394
Nepal	2018	365,990	18,841	18,045	..	..	320
	2019	367,766	17,878	18,254	..	..	324
	2020	378,726	17,967	18,782	..	..	329
	2021	387,578	18,387	19,580	..	..	337
Oman	2018	447	..	..	..	..	216
	2019	458	..	..	..	..	221
	2020	458	..	..	..	..	221
	2021	469	..	..	..	..	232
Other Asia	2018	7,027	..	..	..	..	..
	2019	6,780	..	..	..	..	..
	2020	6,572	..	..	..	..	..
	2021	7,143	..	..	..	..	..
Pakistan	2018	*306,330	*5,671	*252,564	*149,508	..	2,567
	2019	*306,579	*5,387	*252,769	*149,508	..	2,617
	2020	*303,604	*5,118	*250,317	*149,824	..	2,617
	2021	*298,916	*4,862	*246,452	*150,224	..	*2,614
Philippines	2018	*275,761	565	38,473	33,588	..	63,042
	2019	*279,500	569	38,065	32,768	..	65,372
	2020	*281,131	427	33,312	31,280	..	67,098
	2021	*299,781	437	31,794	30,342	..	69,856
Qatar	2018	47	..	..	..	..	23
	2019	47	..	..	..	..	23
	2020	47	..	..	..	..	23
	2021	47	..	..	..	..	23
Singapore	2018	262	..	..	..	..	139
	2019	258	..	..	..	..	137
	2020	258	..	..	..	..	137
	2021	250	..	..	..	..	133
Sri Lanka	2018	126,490	..	..	1,572	..	..
	2019	128,649	..	..	1,651	..	..
	2020	131,422	..	..	1,545	..	..
	2021	*134,051	..	..	*2,008	..	..
State of Palestine	2018	2,022	..	398	..	..	..
	2019	2,074	..	1,190	..	..	..
	2020	2,097	..	510	..	..	..
	2021	2,148	..	453	..	..	..
Syrian Arab Republic	2018	326	..	..	..	..	80
	2019	330	..	..	..	..	80
	2020	333	..	..	..	..	80
	2021	335	..	..	..	..	80

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	..	..	25,502	6,146	66,706
..	..	..	56,557	4,425	95,733
..	..	..	38,182	6,025	75,954
..	..	..	41,910	5,795	80,084
..	..	..	..	..	150
..	..	..	..	..	151
..	..	..	..	..	152
..	..	..	..	..	153
..	..	..	..	..	5,481
..	..	..	..	..	5,481
..	..	..	..	..	5,772
..	..	..	..	..	6,686
..	..	..	..	1	357,194
..	..	..	..	1	377,553
..	..	..	..	*1	372,697
..	..	..	..	*1	*373,576
..	..	..	..	8,175	411,051
..	..	..	..	10,141	414,039
..	..	..	..	9,757	425,233
..	..	..	..	9,986	435,531
..	..	..	..	..	447
..	..	..	..	..	458
..	..	..	..	..	458
..	..	..	..	..	469
..	63,140	8	..	298	70,472
..	63,691	3	..	243	70,717
..	62,641	3	..	827	70,043
..	62,602	2	..	540	70,287
..	..	..	..	..	*714,073
..	..	..	..	..	*714,243
..	..	..	..	..	*708,863
..	..	..	..	..	*700,454
..	543	11,130	6,648	..	*366,709
..	634	13,030	7,044	..	*371,611
..	467	10,141	5,195	..	*361,953
..	274	13,116	6,191	..	*381,934
..	..	..	..	..	47
..	..	..	..	..	47
..	..	..	..	..	47
..	..	..	..	..	47
..	24,811	..	..	..	25,073
..	25,133	..	..	..	25,392
..	23,346	..	..	..	23,604
..	21,888	..	..	..	22,138
..	..	..	..	..	128,062
..	..	..	..	..	130,300
..	..	..	..	..	132,967
..	..	..	..	..	*136,058
..	..	..	..	..	2,420
..	..	..	..	..	3,264
..	..	..	..	..	2,607
..	..	..	..	..	2,600
..	..	..	..	..	326
..	..	..	..	..	330
..	..	..	..	..	333
..	..	..	..	..	335

Table 13

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Tajikistan	2018	*50,225	..	..	..	..	..
	2019	50,142	..	..	..	..	..
	2020	50,142	..	..	..	..	..
	2021	50,142	..	..	..	..	..
Thailand	2018	233,303	..	310,173	364,892	21,121	43,159
	2019	229,289	..	338,373	389,444	19,843	42,510
	2020	173,875	..	302,230	314,513	17,229	32,568
	2021	143,942	..	287,131	290,729	19,329	27,701
Timor-Leste	2018	776	..	..	..	..	..
	2019	742	..	..	..	..	..
	2020	709	..	..	..	..	..
	2021	677	..	..	..	..	..
Türkiye	2018	40,654	..	30,720	..	..	..
	2019	43,794	..	30,898	..	..	..
	2020	48,232	..	38,454	..	..	..
	2021	49,860	..	45,703	..	..	..
Turkmenistan	2018	77	..	..	..	..	..
	2019	77	..	..	..	..	..
	2020	77	..	..	..	..	..
	2021	77	..	..	..	..	..
United Arab Emirates	2018	..	..	..	..	..	..
	2019	..	..	..	..	..	..
	2020	..	..	..	..	..	..
	2021	..	..	..	..	..	..
Uzbekistan	2018	*926	..	..	..	..	..
	2019	*929	..	..	..	..	..
	2020	*959	..	..	..	..	..
	2021	*1,005	..	..	..	..	..
Viet Nam	2018	230,735	..	121,961	35,923	..	9,588
	2019	223,240	..	118,026	37,179	..	10,060
	2020	172,915	..	103,623	38,519	..	8,541
	2021	208,994	..	153,341	48,781	..	9,005
Yemen	2018	5,306	..	..	..	..	2,033
	2019	5,429	..	..	..	..	2,080
	2020	5,553	..	..	..	..	2,127
	2021	5,736	..	..	..	..	2,198
Europe	**2018**	**3,686,056**	**18,778**	**343,578**	**25,831**	**544,653**	**12,924**
	2019	**3,736,093**	**19,702**	**356,139**	**25,911**	**570,180**	**12,038**
	2020	**3,708,072**	**19,442**	**367,865**	**29,626**	**565,975**	**12,359**
	2021	**4,036,048**	**17,870**	**379,767**	**25,883**	**576,830**	**7,648**
Albania	2018	6,710	..	..	..	..	44
	2019	6,627	..	..	..	..	59
	2020	6,420	..	..	..	..	103
	2021	6,006	..	..	..	..	133
Andorra	2018	..	..	..	..	..	..
	2019	..	..	..	..	..	..
	2020	..	..	..	..	..	..
	2021	..	..	..	..	..	..
Austria	2018	151,477	..	8,157	..	33,651	41
	2019	154,653	..	7,327	..	33,643	42
	2020	160,363	..	7,599	..	33,170	43
	2021	*174,682	..	6,422	..	34,393	43
Belarus	2018	63,754	..	2,392	..	1,013	103
	2019	67,665	..	2,161	..	5,759	189
	2020	70,034	..	2,132	..	8,049	272
	2021	70,906	..	2,482	..	9,660	272

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	..	..	..	..	*50,225
..	..	..	..	..	50,142
..	..	..	..	..	50,142
..	..	..	..	..	50,142
..	8,029	31,578	49,782	51,723	1,070,602
..	9,001	34,664	58,422	54,385	1,133,421
..	10,868	32,029	67,822	50,618	969,184
..	13,188	28,888	60,978	53,842	898,026
..	..	..	..	..	776
..	..	..	..	..	742
..	..	..	..	..	709
..	..	..	..	..	677
37,135	171	2,042	4,027	20,496	135,245
36,581	436	2,217	4,453	24,824	143,202
38,357	364	1,677	2,774	28,029	157,887
45,337	4,382	2,709	2,297	37,659	187,946
..	..	..	..	..	77
..	..	..	..	..	77
..	..	..	..	..	77
..	..	..	..	..	77
..	374	..	..	..	374
..	96	..	..	..	96
..	30	..	..	..	30
..	238	..	..	..	238
..	..	..	..	..	*926
..	..	..	..	..	*929
..	..	..	..	..	*959
..	..	..	..	..	*1,005
..	..	3,243	..	..	391,862
..	..	3,350	..	..	381,795
..	..	2,680	..	..	317,736
..	..	504	..	..	411,621
..	..	..	..	..	5,306
..	..	..	..	..	5,429
..	..	..	..	..	5,553
..	..	..	..	..	5,736
458,014	**903,440**	**125,359**	**514,798**	**709,725**	**7,330,231**
523,203	**920,751**	**122,068**	**550,410**	**700,196**	**7,524,653**
566,030	**935,045**	**120,652**	**527,298**	**726,719**	**7,566,725**
586,961	**944,804**	**125,374**	**541,257**	**739,378**	**7,974,172**
..	..	..	..	..	6,710
..	..	..	..	..	6,627
..	..	..	..	..	6,420
..	..	..	..	..	6,006
..	268	..	..	..	268
..	291	..	..	..	291
..	270	..	..	..	270
..	241	..	..	..	241
15,332	19,441	5,236	9,639	9,505	252,437
14,476	19,796	5,492	10,969	8,983	255,340
14,420	21,576	4,365	9,647	8,787	259,928
15,492	21,543	5,915	11,241	6,685	*276,373
970	..	..	515	507	69,151
792	..	..	589	465	77,431
381	..	..	..	2,170	82,766
398	..	..	..	2,048	85,494

Table 13

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Belgium	2018	41,843	741	6,848	..	1,817	..
	2019	40,749	818	6,909	..	1,548	..
	2020	40,756	639	6,783	..	1,308	..
	2021	45,846	324	7,587	..	1,507	..
Bosnia and Herzegovina	2018	60,650	..	..	..	..	885
	2019	60,775	..	..	..	..	944
	2020	62,209	..	..	..	..	885
	2021	62,218	..	..	..	..	944
Bulgaria	2018	51,330	..	8,219	..	4,273	60
	2019	52,470	..	11,043	..	4,331	62
	2020	53,551	..	12,945	..	3,839	68
	2021	48,415	..	24,263	..	3,202	86
Croatia	2018	62,621	14	18	..	..	290
	2019	62,228	23	7	..	..	416
	2020	63,166	43	54	..	..	390
	2021	69,720	30	132	..	..	420
Czechia	2018	108,298	..	5,576	..	14,675	..
	2019	116,959	..	5,331	..	18,803	..
	2020	122,005	..	5,667	..	19,783	..
	2021	138,192	..	5,974	..	19,670	..
Denmark	2018	48,866	..	17,641	..	..	..
	2019	44,503	..	17,984	..	..	..
	2020	41,317	..	18,934	..	..	..
	2021	42,336	..	21,581	..	..	..
Estonia	2018	55,681	..	11,914	..	1,404	..
	2019	58,683	..	13,906	..	1,229	..
	2020	58,757	..	11,405	..	1,285	..
	2021	64,530	..	10,854	..	396	..
Finland	2018	193,497	308	1,773	..	167,032	..
	2019	189,374	249	1,986	..	169,744	..
	2020	171,942	195	1,942	..	158,132	..
	2021	210,435	95	1,820	..	166,151	..
France	2018	384,718	2,340	6,877	5,835	31,967	..
	2019	383,756	2,806	6,953	6,262	33,969	..
	2020	358,609	2,543	8,181	6,444	33,068	..
	2021	404,175	2,162	7,192	4,869	31,474	..
Germany	2018	475,112	3,653	13,404	..	26,710	974
	2019	490,503	3,277	13,321	..	27,299	974
	2020	485,548	2,846	13,643	..	27,508	974
	2021	544,826	2,712	12,934	..	24,446	974
Greece	2018	25,977	..	6,769	..	..	59
	2019	25,746	..	6,532	..	..	30
	2020	24,110	..	6,918	..	..	30
	2021	27,510	..	5,434	..	..	18
Hungary	2018	75,737	241	13,039	..	303	..
	2019	73,931	379	11,253	..	377	..
	2020	73,063	229	11,563	..	385	..
	2021	79,172	464	11,805	..	405	..
Iceland	2018	..	..	..	..	..	..
	2019	..	..	..	..	..	..
	2020	..	..	..	..	..	..
	2021	..	..	..	..	..	..
Ireland	2018	9,332	1,091	..	..	..	..
	2019	8,913	1,022	..	..	..	..
	2020	7,973	1,429	..	..	..	..
	2021	9,453	939	..	..	..	..

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
12,156	30,222	7,598	9,281	9,547	120,052
12,705	30,138	8,513	9,358	9,698	120,436
11,755	30,586	9,624	7,846	10,261	119,558
11,805	32,504	9,134	7,051	10,292	126,049
..	..	..	..	97	60,747
..	..	..	..	67	60,842
..	..	..	..	104	62,313
..	..	..	..	98	62,316
2,095	2,415	465	4,657	2,245	75,699
2,785	2,472	439	6,299	2,133	81,972
2,770	1,755	411	5,046	2,232	82,549
3,107	1,779	590	7,445	2,499	91,300
818	..	..	15	3,081	66,568
1,129	..	..	10	3,442	66,838
1,630	..	..	6	3,481	68,380
1,892	..	..	14	4,154	75,942
12,061	6,115	2,013	7,149	25,279	181,166
12,499	6,376	2,493	9,142	24,332	195,934
12,753	6,688	2,028	9,518	24,889	203,332
12,651	6,694	2,204	9,008	24,737	219,130
..	35,566	172	..	13,333	115,579
..	35,707	105	..	16,482	114,781
..	35,531	58	..	21,152	116,991
..	35,487	126	..	26,195	125,726
611	2,117	..	..	571	72,298
614	1,791	..	..	592	76,815
14	2,217	..	..	784	74,462
9	2,289	..	..	762	78,841
2,048	24,865	1,246	10,145	7,804	408,718
1,818	25,214	1,130	12,188	7,851	409,554
2,025	24,105	1,193	10,920	7,080	377,534
2,213	26,626	1,017	21,592	8,138	438,087
18,928	105,337	26,569	81,367	36,609	700,548
20,733	104,651	25,788	74,754	40,717	700,389
16,998	103,175	22,306	72,637	45,640	669,601
19,608	105,270	22,352	56,607	58,793	712,502
46,695	259,778	19,459	123,059	318,527	1,286,397
48,440	258,838	17,090	131,854	317,935	1,308,557
45,628	260,696	17,944	115,074	325,115	1,294,002
44,922	263,634	17,926	124,310	314,773	1,350,483
1,213	..	..	6,312	4,724	44,995
1,758	..	253	7,206	5,233	46,726
405	..	629	6,633	5,665	44,359
329	..	434	6,119	5,326	45,152
4,322	3,417	12,757	5,925	3,916	119,657
3,339	4,445	13,588	6,182	3,785	117,279
3,857	4,820	13,320	5,336	3,748	116,321
3,847	4,771	14,016	6,587	3,518	124,586
..	..	..	..	72	72
..	..	..	..	78	78
..	..	..	..	78	78
..	..	..	..	80	80
..	11,953	113	1,284	2,108	25,882
..	11,812	180	1,713	2,120	25,761
..	12,215	137	2,241	2,105	26,100
..	12,007	135	2,674	2,179	27,386

Table 13

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Isle of Man	2018	..	..	..	..	..	..
	2019	..	..	..	..	..	..
	2020	..	..	..	..	..	..
	2021	..	..	..	..	..	..
Italy	2018	284,621	..	11,211	..	..	295
	2019	291,986	..	12,043	..	..	295
	2020	285,298	..	12,958	..	..	295
	2021	302,775	..	15,016	..	..	295
Jersey	2018	..	..	..	..	..	..
	2019	..	..	..	..	..	..
	2020	..	..	..	..	..	..
	2021	..	..	..	..	..	..
Kosovo	2018	15,415	..	..	..	..	..
	2019	13,364	..	..	..	..	..
	2020	12,874	..	..	..	..	..
	2021	12,887	..	..	..	..	..
Latvia	2018	102,172	..	277	..	..	257
	2019	102,427	..	359	..	..	248
	2020	95,417	..	233	..	..	244
	2021	96,624	..	249	..	..	250
Liechtenstein	2018	225	..	..	..	..	..
	2019	207	..	..	..	..	..
	2020	164	..	..	..	..	..
	2021	159	..	..	..	..	..
Lithuania	2018	52,657	..	1,175	..	..	15
	2019	50,969	..	1,265	..	..	15
	2020	51,852	..	1,431	..	..	15
	2021	56,892	..	1,542	..	..	6
Luxembourg	2018	3,603	..	208	..	..	..
	2019	4,545	..	226	..	..	..
	2020	6,899	..	327	..	..	..
	2021	7,420	..	223	..	..	..
Malta	2018	..	..	..	..	..	..
	2019	..	..	..	..	..	..
	2020	..	..	..	..	..	..
	2021	..	..	..	..	..	..
Montenegro	2018	7,964	..	..	..	..	18
	2019	8,164	..	..	..	..	22
	2020	8,205	..	..	..	..	22
	2021	7,892	..	..	..	..	25
Netherlands (Kingd. of the)	2018	44,673	..	11,508	..	..	..
	2019	48,425	..	11,877	..	..	..
	2020	51,492	..	12,610	..	..	..
	2021	59,366	..	12,854	..	..	..
North Macedonia	2018	9,428	..	261	..	..	..
	2019	10,358	..	369	..	..	..
	2020	10,225	..	291	..	..	..
	2021	10,518	..	*431	..	..	..
Norway	2018	36,472	..	..	..	369	..
	2019	38,659	..	..	..	408	..
	2020	40,577	..	..	..	334	..
	2021	47,672	..	..	..	339	..
Poland	2018	330,440	377	43,309	..	10,788	..
	2019	318,154	363	48,295	..	10,245	..
	2020	305,484	829	58,211	..	10,794	..
	2021	311,682	489	40,463	..	19,189	..

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	*546	..	..	..	*546
..	*542	..	..	..	*542
..	*543	..	..	..	*543
..	*526	..	..	..	*526
11,989	70,893	9,011	27,659	79,221	494,605
12,951	73,103	9,118	32,085	84,288	515,574
14,524	70,608	10,767	38,175	84,484	516,813
13,061	69,488	7,991	45,522	87,007	540,861
..	*760	..	..	..	*760
..	*764	..	..	..	*764
..	*760	..	..	..	*760
..	*760	..	..	..	*760
..	..	..	..	..	15,415
..	..	..	..	..	13,364
..	..	..	..	..	12,874
..	..	..	..	..	12,887
119	558	210	3,252	3,643	110,231
108	652	23	3,044	3,376	109,988
167	911	..	3,149	3,359	103,235
102	691	..	2,635	2,763	103,064
..	*759	..	..	24	*1,008
..	*785	..	..	25	*1,016
..	*841	..	..	25	*1,030
..	*878	..	..	25	*1,062
644	1,692	458	5,675	1,554	63,855
744	1,498	456	6,146	1,632	62,709
1,010	2,693	847	5,987	1,617	65,437
1,312	4,733	592	5,741	1,682	72,494
624	1,552	..	..	915	6,902
620	1,567	..	..	753	7,711
977	1,441	..	..	755	10,399
861	1,412	..	..	691	10,607
..	..	..	..	70	70
..	..	..	..	73	73
..	..	..	..	60	60
..	..	..	..	55	55
..	..	..	..	..	7,964
..	..	..	..	..	8,164
..	..	..	..	..	8,205
..	..	..	..	..	7,892
3,575	60,110	1,672	67,666	13,696	202,901
3,238	60,667	1,273	69,979	14,913	210,373
2,955	64,867	880	71,328	17,429	221,560
2,686	67,126	666	72,615	17,927	233,240
..	..	..	0	778	10,467
..	..	..	..	793	11,520
..	..	..	50	825	11,391
..	..	..	..	775	11,724
3,525	16,600	..	3,733	2,226	62,926
3,568	16,262	..	3,175	3,631	65,703
3,601	15,856	..	3,150	2,697	66,214
3,484	16,101	..	3,237	2,711	73,544
27,023	19,412	5,055	32,629	12,068	481,101
28,437	20,415	5,468	35,341	12,498	479,215
27,657	23,113	5,510	35,064	13,498	480,159
26,133	20,951	6,828	36,315	13,372	475,421

Table 13

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Portugal	2018	57,515	..	9,653	406	43,272	259
	2019	67,503	..	7,024	489	43,452	266
	2020	71,972	..	5,741	445	43,435	266
	2021	71,068	..	8,785	191	42,299	295
Republic of Moldova	2018	*23,264	*157	*9,172	..	..	12
	2019	*19,424	*101	*7,566	..	..	15
	2020	*22,421	*193	*5,032	..	..	30
	2021	24,653	165	5,918	..	..	30
Romania	2018	144,164	..	..	..	..	33
	2019	144,700	..	..	..	..	30
	2020	142,414	..	..	..	..	49
	2021	151,785	..	..	..	..	60
Russian Federation	2018	119,089	..	..	..	..	2,328
	2019	126,553	..	..	..	..	1,963
	2020	119,561	..	..	..	..	1,665
	2021	128,998	..	..	..	..	1,696
Serbia	2018	46,936	..	105	..	..	418
	2019	49,151	..	99	..	..	347
	2020	67,335	..	93	..	..	442
	2021	66,938	..	103	..	..	227
Slovakia	2018	22,518	..	2,620	..	12,861	..
	2019	38,456	..	7,309	..	12,797	..
	2020	35,384	..	*6,631	..	13,297	..
	2021	38,318	..	8,664	..	15,652	..
Slovenia	2018	23,193	..	338	..	..	..
	2019	22,610	..	317	..	..	..
	2020	22,563	..	274	..	..	..
	2021	25,104	..	182	..	..	..
Spain	2018	117,794	1,887	39,947	19,590	27,690	433
	2019	118,607	2,033	39,590	19,160	31,331	433
	2020	127,534	1,861	34,569	22,736	24,695	433
	2021	137,345	1,852	36,623	20,823	24,356	433
Sweden	2018	219,212	106	..	..	166,828	..
	2019	220,661	64	..	..	175,245	..
	2020	210,846	84	..	..	186,893	..
	2021	245,938	123	..	..	183,690	..
Switzerland	2018	39,990	..	..	..	..	..
	2019	42,330	..	..	..	..	..
	2020	42,930	..	..	..	..	..
	2021	50,750	..	..	..	..	..
Ukraine	2018	141,044	..	..	..	..	6,402
	2019	133,765	..	..	..	..	5,691
	2020	147,860	..	..	..	..	6,136
	2021	147,860	..	..	..	..	1,443
United Kingdom	2018	28,062	7,862	111,167	..	..	..
	2019	27,540	8,568	115,088	..	..	..
	2020	28,943	8,551	121,699	..	..	..
	2021	34,982	8,516	130,231	..	..	..
Latin America & Carib.	**2018**	**2,522,964**	**12**	**935,716**	**1,707,354**	**165,667**	**261,181**
	2019	**2,541,193**	**13**	**724,127**	**1,767,355**	**151,574**	**266,208**
	2020	**2,518,979**	**5**	**766,862**	**1,904,817**	**155,274**	**266,906**
	2021	**2,545,153**	**24**	**994,165**	**1,760,997**	**156,794**	**255,647**
Anguilla	2018	*2	..	..	..	..	..
	2019	*2	..	..	..	..	..
	2020	*2	..	..	..	..	..
	2021	*2	..	..	..	..	..

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
2,482	8,120	..	13,373	3,453	138,275
2,684	8,666	..	14,455	3,355	147,628
2,157	8,341	..	12,292	3,464	147,849
2,871	8,867	..	11,870	3,652	149,604
..	..	..	..	313	*32,906
..	..	..	..	292	*27,383
..	..	..	..	327	*27,973
..	..	..	..	381	31,117
7,203	188	944	6,927	865	160,291
6,140	188	1,447	7,726	794	160,995
11,665	188	1,190	10,759	772	166,988
13,204	193	1,368	8,508	970	176,028
244,991	..	..	..	..	364,080
305,868	..	..	..	..	432,421
311,158	..	..	..	..	430,719
330,687	..	..	..	..	459,685
49	..	..	..	958	48,049
51	..	..	..	1,190	50,491
57	..	..	..	1,624	69,110
58	..	..	..	2,220	69,320
6,784	1,161	3,296	4,048	6,228	59,516
7,311	2,386	3,564	4,011	5,984	81,819
8,289	2,523	3,538	4,306	5,479	79,446
7,894	3,003	3,511	4,306	5,472	86,819
2,409	..	..	..	1,018	26,958
2,597	..	..	..	930	26,453
2,395	..	..	..	1,129	26,361
2,292	..	..	..	1,044	28,622
12,275	21,280	11,075	63,252	12,374	327,164
11,308	21,412	11,504	73,065	12,184	340,194
12,713	19,769	11,420	67,909	13,539	336,745
11,732	21,785	11,719	65,111	13,644	344,990
755	58,296	6,915	9,494	7,359	468,965
744	62,211	6,694	11,850	7,600	485,069
4,132	67,825	7,543	11,482	7,780	496,585
3,888	59,363	11,265	14,462	8,154	526,884
11,070	48,750	..	221	5,238	105,270
11,670	49,050	..	501	5,564	109,115
11,510	48,960	..	491	5,742	109,632
12,030	47,900	..	475	5,888	117,043
..	..	107	..	1,995	143,147
..	..	1,874	..	2,028	137,667
34,090	..	..	..	3,862	185,812
34,090	..	..	..	3,862	185,812
5,247	91,269	10,988	17,517	117,802	389,914
4,077	99,052	5,574	18,768	94,379	373,046
4,337	102,172	6,941	18,253	94,962	385,858
4,303	108,183	7,584	17,811	96,807	408,418
1,375	**489**	**733,038**	**283,484**	**18,710**	**6,368,808**
1,427	**1,047**	**778,363**	**293,073**	**21,342**	**6,279,514**
1,590	**1,133**	**720,359**	**271,901**	**22,706**	**6,363,626**
10,211	**1,122**	**728,712**	**311,046**	**36,942**	**6,545,167**
..	..	..	..	..	*2
..	..	..	..	..	*2
..	..	..	..	..	*2
..	..	..	..	..	*2

Table 13

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Argentina	2018	32,886	..	..	54,974	..	11,918
	2019	42,551	..	..	53,476	..	12,125
	2020	42,007	..	..	49,465	..	12,002
	2021	41,658	..	..	56,750	..	12,154
Aruba	2018	21	..	..	..	..	7
	2019	22	..	..	..	..	8
	2020	23	..	..	..	..	8
	2021	24	..	..	..	..	8
Bahamas	2018	309	..	..	..	..	34
	2019	309	..	..	..	..	34
	2020	310	..	..	..	..	34
	2021	310	..	..	..	..	34
Barbados	2018	43	..	..	539	..	9
	2019	43	..	..	342	..	9
	2020	43	..	..	391	..	9
	2021	42	..	..	396	..	9
Belize	2018	1,021	..	..	4,295	..	91
	2019	1,048	..	..	4,416	..	91
	2020	679	..	..	3,862	..	91
	2021	1,054	..	..	4,958	..	91
Bolivia (Plur. State of)	2018	8,045	..	..	34,924	..	1,454
	2019	6,799	..	..	36,806	..	1,488
	2020	7,654	..	..	36,618	..	1,529
	2021	6,401	..	..	*38,269	..	1,489
Brazil	2018	1,039,645	..	867,675	1,218,269	..	177,295
	2019	1,045,802	..	658,218	1,252,702	..	182,812
	2020	1,046,688	..	704,754	1,402,503	..	183,372
	2021	1,060,139	..	928,500	1,234,833	..	179,245
British Virgin Islands	2018	15	..	..	..	..	2
	2019	15	..	..	..	..	2
	2020	15	..	..	..	..	2
	2021	16	..	..	..	..	2
Chile	2018	240,328	..	..	..	100,675	4,165
	2019	237,692	..	..	..	98,853	3,704
	2020	*215,418	..	..	..	101,233	4,490
	2021	226,014	..	1,827	..	101,881	..
Colombia	2018	106,426	..	..	56,019	13,190	383
	2019	109,935	..	..	84,032	..	350
	2020	105,517	..	..	92,837	..	13
	2021	101,123	..	..	87,615	..	423
Costa Rica	2018	3,010	..	2,979	10,442	..	28
	2019	4,651	..	3,750	10,258	..	28
	2020	5,079	..	3,172	10,428	..	27
	2021	4,951	..	3,221	10,181	..	27
Cuba	2018	8,805	..	*88	48,463	..	1,894
	2019	7,525	..	*88	40,119	..	2,245
	2020	7,417	..	*88	31,238	..	2,230
	2021	6,723	..	*88	27,857	..	1,746
Dominica	2018	68	..	..	..	..	7
	2019	67	..	..	..	..	7
	2020	67	..	..	..	..	7
	2021	67	..	..	..	..	7
Dominican Republic	2018	20,289	..	516	11,514	..	3,480
	2019	20,722	..	*525	*10,800	..	3,629
	2020	21,160	..	*525	12,646	..	3,786
	2021	21,607	..	*530	13,194	..	3,954

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	..	23,638	89,350	..	200,848
..	..	22,780	79,010	..	197,816
..	..	30,238	43,130	..	164,840
..	..	21,386	63,443	..	183,237
..	..	..	..	..	21
..	..	..	..	..	22
..	..	..	..	..	23
..	..	..	..	..	24
..	..	..	..	..	309
..	..	..	..	..	309
..	..	..	..	..	310
..	..	..	..	..	310
..	..	..	..	..	582
..	..	..	..	..	385
..	..	..	..	..	433
..	..	..	..	..	438
..	..	..	..	..	5,316
..	..	..	..	..	5,464
..	..	..	..	..	4,541
..	..	..	..	..	6,012
..	..	25	..	..	42,994
..	..	945	..	..	44,550
..	..	1,497	..	..	45,770
..	..	2,113	..	..	*46,783
..	..	691,896	171,348	8,532	3,997,365
..	..	733,409	189,733	11,245	3,891,110
..	..	670,858	208,294	13,011	4,046,108
..	..	685,812	219,105	26,531	4,154,920
..	..	..	..	..	15
..	..	..	..	..	15
..	..	..	..	..	15
..	..	..	..	..	16
..	..	..	..	4,484	345,487
..	..	..	..	4,235	340,780
..	..	..	..	3,522	*320,173
..	..	..	..	3,513	333,235
..	..	6,337	18,384	..	200,355
..	489	8,122	19,497	5	222,080
..	714	7,056	18,998	1	225,124
..	764	7,416	23,998	20	220,937
..	..	608	..	16	17,055
..	..	670	..	18	19,348
..	..	659	..	17	19,356
..	..	634	..	17	19,004
..	..	431	..	..	57,787
..	..	373	..	*45	48,150
..	..	368	..	*286	39,396
..	..	318	..	*1,944	36,930
..	..	..	..	..	68
..	..	..	..	..	67
..	..	..	..	..	67
..	..	..	..	..	67
..	..	..	..	*157	32,476
..	..	..	..	*157	32,204
..	..	..	..	*157	34,489
..	..	..	..	*160	35,491

Table 13

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Ecuador	2018	10,127	..	..	12,170	..	..
	2019	9,815	..	..	13,524	..	..
	2020	9,466	..	..	12,959	..	..
	2021	9,095	..	..	11,654	..	..
El Salvador	2018	4,755	12	..	14,379	..	1
	2019	4,140	13	..	14,927	..	3
	2020	3,633	5	..	15,321	..	10
	2021	3,544	24	..	15,050	..	7
Falkland Is. (Malvinas)	2018	8	..	..	..	..	4
	2019	9	..	..	..	..	4
	2020	9	..	..	..	..	4
	2021	9	..	..	..	..	4
Grenada	2018	327	..	..	22	..	69
	2019	340	..	..	22	..	72
	2020	293	..	..	19	..	62
	2021	304	..	..	20	..	65
Guatemala	2018	332,010	..	..	51,340	..	1,896
	2019	338,392	..	..	53,779	..	1,994
	2020	348,593	..	..	54,054	..	*2,065
	2021	359,101	..	..	88,131	..	..
Guyana	2018	1,129	..	..	3,913	..	40
	2019	1,153	..	..	2,408	..	41
	2020	998	..	..	2,750	..	40
	2021	1,003	..	..	3,141	..	40
Haiti	2018	143,143	..	..	998	..	38,580
	2019	145,267	..	..	1,013	..	39,152
	2020	140,474	..	..	979	..	37,860
	2021	142,558	..	..	962	..	37,178
Honduras	2018	55,298	..	9,520	21,848	..	6
	2019	53,793	..	10,858	15,940	..	5
	2020	54,700	..	7,833	11,102	..	3
	2021	53,032	..	8,109	9,770	..	25
Jamaica	2018	*5,006	..	..	1,544	..	1,121
	2019	*8,681	..	..	1,988	..	753
	2020	*8,076	..	..	1,627	..	753
	2021	8,076	..	..	1,627	..	753
Mexico	2018	249,084	..	0	107,146	0	..
	2019	247,919	..	0	113,249	0	..
	2020	249,125	..	..	113,800	4	..
	2021	244,418	..	..	103,954	4	..
Nicaragua	2018	46,147	..	1,712	15,717	..	309
	2019	46,373	..	1,641	16,287	..	297
	2020	46,737	..	1,616	14,177	..	309
	2021	46,700	..	1,838	15,022	..	293
Panama	2018	7,016	..	..	4,660	..	39
	2019	6,972	..	..	4,660	..	38
	2020	6,929	..	..	4,599	..	43
	2021	6,888	..	..	4,344	..	42
Paraguay	2018	101,548	..	23,931	..	..	12,801
	2019	98,604	..	23,692	..	..	11,871
	2020	95,738	..	23,355	..	..	12,295
	2021	96,134	..	23,438	..	..	12,161
Peru	2018	68,556	..	4,637	23,945	..	5,191
	2019	69,509	..	4,374	29,068	..	5,182
	2020	72,194	..	4,654	25,258	..	5,624
	2021	72,705	..	*4,660	*25,290	..	5,620

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	..	1,107	..	925	24,329
..	..	1,458	..	867	25,664
..	..	740	..	929	24,094
..	..	1,195	..	885	22,830
..	489	..	..	495	20,129
..	557	..	..	570	20,207
..	419	..	..	591	19,969
..	358	..	..	794	19,770
..	..	..	..	..	8
..	..	..	..	..	9
..	..	..	..	..	9
..	..	..	..	..	9
..	..	..	..	..	349
..	..	..	..	..	362
..	..	..	..	..	312
..	..	..	..	..	324
..	..	..	..	430	383,779
..	..	..	..	308	392,479
..	..	..	..	281	402,928
..	..	..	..	472	447,704
..	..	..	..	..	5,043
..	..	..	..	..	3,561
..	..	..	..	..	3,748
..	..	..	..	..	4,144
..	..	238	..	..	144,379
..	..	241	..	..	146,521
..	..	241	..	..	141,694
..	..	233	..	..	143,752
..	..	..	..	..	86,666
..	..	..	..	..	80,592
..	..	..	..	..	73,635
..	..	..	..	..	70,911
..	..	..	..	..	*6,550
..	..	..	..	..	*10,670
..	..	..	..	..	*9,703
..	..	..	..	..	9,703
1,010	..	..	..	2,844	360,084
1,067	..	..	..	2,799	365,034
1,200	..	..	..	3,000	367,129
9,918	..	..	..	1,767	360,061
..	..	..	..	..	63,577
..	..	..	..	75	64,376
..	..	..	..	71	62,601
..	..	..	..	92	63,652
..	..	..	..	..	11,675
..	..	..	..	..	11,632
..	..	..	..	..	11,528
..	..	..	..	..	11,232
..	..	7,071	..	..	132,550
..	..	8,366	..	..	130,662
..	..	7,093	..	..	126,186
..	..	7,812	..	..	127,384
..	..	0	2,867	691	100,697
..	..	271	3,231	823	107,276
..	..	..	..	719	102,826
..	..	..	3,146	572	106,372

Table 13

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Puerto Rico	2018	..	..	..	..	..	..
	2019	..	..	..	..	..	..
	2020	..	..	..	..	..	..
	2021	..	..	..	..	..	..
St. Kitts-Nevis	2018	0	..	..	..	..	0
	2019	*1	..	..	..	..	0
	2020	0	..	..	..	..	0
	2021	0	..	..	..	..	0
St. Lucia	2018	*617	..	..	..	..	106
	2019	*595	..	..	..	..	*91
	2020	*575	..	..	..	..	*86
	2021	*603	..	..	..	..	*89
St. Vincent-Grenadines	2018	65	..	..	..	..	11
	2019	65	..	..	..	..	11
	2020	64	..	..	..	..	11
	2021	*64	..	..	..	..	11
Suriname	2018	916	..	737	..	..	..
	2019	916	..	751	..	..	..
	2020	784	..	642	..	..	..
	2021	782	..	693	..	..	..
Trinidad and Tobago	2018	279	..	..	..	..	54
	2019	276	..	..	..	..	54
	2020	273	..	..	..	..	54
	2021	270	..	..	..	..	53
Turks and Caicos Islands	2018	11	..	..	..	..	4
	2019	11	..	..	..	..	4
	2020	11	..	..	..	..	5
	2021	11	..	..	..	..	5
United States Virgin Is.	2018	*30	..	..	..	..	*5
	2019	*30	..	..	..	..	*5
	2020	*31	..	..	..	..	*5
	2021	*31	..	..	..	..	*5
Uruguay	2018	25,794	..	12,873	858	51,802	..
	2019	24,286	..	12,238	829	52,720	..
	2020	22,885	..	14,626	969	54,037	..
	2021	23,079	..	15,639	1,028	54,909	..
Venezuela (Bolivar. Rep.)	2018	10,185	..	11,049	9,375	..	180
	2019	6,862	..	7,992	6,711	..	102
	2020	5,312	..	5,598	7,212	..	80
	2021	6,616	..	5,623	6,950	..	108
Northern America	**2018**	**1,927,964**	**..**	**34,967**	**..**	**874,954**	**25,134**
	2019	**1,950,827**	**..**	**35,673**	**..**	**887,080**	**25,134**
	2020	**1,812,753**	**..**	**33,047**	**..**	**811,612**	**25,134**
	2021	**1,793,525**	**..**	**38,199**	**..**	**877,026**	**25,134**
Bermuda	2018	..	..	..	..	..	..
	2019	..	..	..	..	..	..
	2020	..	..	..	..	..	..
	2021	..	..	..	..	..	..
Canada	2018	309,684	..	..	..	175,307	..
	2019	294,008	..	..	..	179,153	..
	2020	274,502	..	..	..	159,215	..
	2021	288,795	..	..	..	161,507	..
Greenland	2018	..	..	..	..	..	..
	2019	..	..	..	..	..	..
	2020	..	..	..	..	..	..
	2021	..	..	..	..	..	..

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	..	..	..	*136	*136
..	..	..	..	*195	*195
..	..	..	..	*121	*121
..	..	..	..	*175	*175
..	..	..	..	..	0
..	..	..	..	..	*1
..	..	..	..	..	0
..	..	..	..	..	0
..	..	..	..	..	*617
..	..	..	..	..	*595
..	..	..	..	..	*575
..	..	..	..	..	*603
..	..	..	..	..	65
..	..	..	..	..	65
..	..	..	..	..	64
..	..	..	..	..	*64
..	..	..	..	..	1,652
..	..	..	..	..	1,667
..	..	..	..	..	1,426
..	..	..	..	..	1,475
..	..	..	..	..	279
..	..	..	..	..	276
..	..	..	..	..	273
..	..	..	..	..	270
..	..	..	..	..	11
..	..	..	..	..	11
..	..	..	..	..	11
..	..	..	..	..	11
..	..	..	..	..	*30
..	..	..	..	..	*30
..	..	..	..	..	*31
..	..	..	..	..	*31
365	..	1,688	1,535	..	94,915
360	..	1,729	1,601	..	93,764
390	..	1,608	1,479	..	95,994
293	..	1,792	1,354	..	98,094
..	..	..	..	..	30,608
..	..	..	..	..	21,564
..	..	..	..	..	18,122
..	..	..	..	..	19,189
47,097	**307,749**	**1,327,068**	**237,710**	**167,871**	**4,925,380**
46,274	**294,381**	**1,306,629**	**222,994**	**160,601**	**4,904,459**
42,544	**292,967**	**1,147,103**	**236,676**	**156,728**	**4,533,430**
37,049	**290,972**	**1,232,075**	**338,218**	**144,541**	**4,751,605**
..	*600	..	..	..	*600
..	*600	..	..	..	*600
..	*600	..	..	..	*600
..	*600	..	..	..	*600
6,314	9,922	37,011	10,010	14,857	563,104
6,491	9,858	41,084	11,666	14,713	556,973
6,668	9,943	34,323	14,296	14,275	513,222
6,845	9,861	34,730	13,435	14,273	529,446
..	98	..	..	..	98
..	110	..	..	..	110
..	103	..	..	..	103
..	102	..	..	..	102

Table 13

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
St. Pierre-Miquelon	2018	5	..	..	..	..	..
	2019	5	..	..	..	..	..
	2020	5	..	..	..	..	..
	2021	5	..	..	..	..	..
United States	2018	*1,618,275	..	*34,967	..	*699,647	25,134
	2019	*1,656,814	..	*35,673	..	*707,927	25,134
	2020	*1,538,246	..	*33,047	..	*652,397	25,134
	2021	*1,504,725	..	*38,199	..	*715,519	25,134
Oceania	**2018**	**158,733**	**..**	**24,840**	**105,189**	**28,615**	**511**
	2019	**156,932**	**..**	**21,644**	**96,517**	**28,832**	**514**
	2020	**152,057**	**..**	**23,852**	**88,629**	**28,087**	**523**
	2021	**153,150**	**..**	**24,720**	**92,818**	**25,783**	**525**
Australia	2018	73,548	..	5,257	100,228	15,220	..
	2019	72,141	..	2,665	91,324	15,438	..
	2020	69,643	..	4,634	83,844	14,777	..
	2021	69,262	..	5,461	87,968	12,791	..
Cook Islands	2018	..	..	*57	..	..	..
	2019	..	..	*57	..	..	..
	2020	..	..	*57	..	..	..
	2021	..	..	*57	..	..	..
Fiji	2018	338	..	..	4,023	..	73
	2019	338	..	..	4,255	..	74
	2020	338	..	..	3,830	..	74
	2021	338	..	..	*3,822	..	74
French Polynesia	2018	..	..	..	..	..	16
	2019	..	..	..	..	..	16
	2020	..	..	..	..	..	16
	2021	..	..	..	..	..	16
Kiribati	2018	*70	..	*512	..	..	12
	2019	*70	..	*514	..	..	12
	2020	*70	..	*512	..	..	13
	2021	*69	..	*510	..	..	13
Marshall Islands	2018	..	..	*195	..	..	..
	2019	..	..	*197	..	..	..
	2020	..	..	*192	..	..	..
	2021	..	..	*193	..	..	..
Micronesia (Fed. States of)	2018	24	..	..	..	..	11
	2019	25	..	..	..	..	11
	2020	25	..	..	..	..	11
	2021	25	..	..	..	..	12
New Caledonia	2018	117	..	..	..	..	19
	2019	118	..	..	..	..	19
	2020	119	..	..	..	..	19
	2021	120	..	..	..	..	20
New Zealand	2018	25,521	..	4,536	..	13,395	..
	2019	24,957	..	3,927	..	13,394	..
	2020	21,754	..	3,944	..	13,310	..
	2021	23,146	..	3,987	..	12,992	..
Niue	2018	1	..	..	..	..	0
	2019	1	..	..	..	..	0
	2020	1	..	..	..	..	0
	2021	*1	..	..	..	..	0
Papua New Guinea	2018	55,936	..	*11,832	938	..	293
	2019	56,103	..	*11,832	938	..	293
	2020	57,029	..	*12,063	955	..	299
	2021	*57,086	..	*12,075	*1,028	..	*299

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	..	..	..	..	5
..	..	..	..	..	5
..	..	..	..	..	5
..	..	..	..	..	5
40,783	297,129	1,290,057	227,701	153,014	*4,361,572
39,783	283,813	1,265,545	211,328	145,888	*4,346,770
35,876	282,321	1,112,780	222,381	142,453	*4,019,499
30,204	280,409	1,197,345	324,783	130,268	*4,221,451
3,785	**..**	**5,102**	**37**	**19,404**	**345,704**
3,609	**..**	**5,462**	**37**	**19,681**	**332,713**
3,685	**..**	**4,422**	**183**	**20,072**	**320,987**
3,764	**..**	**3,714**	**106**	**21,331**	**325,386**
3,785	..	4,985	37	16,103	219,163
3,609	..	5,333	37	16,325	206,872
3,685	..	4,342	74	16,662	197,660
3,764	..	3,618	51	17,984	200,899
..	..	..	..	..	*57
..	..	..	..	..	*57
..	..	..	..	..	*57
..	..	..	..	..	*57
..	..	..	..	..	4,361
..	..	..	..	..	4,593
..	..	..	..	..	4,168
..	..	..	..	..	*4,160
..	..	..	..	..	..
..	..	..	..	..	..
..	..	..	..	..	..
..	..	..	..	..	..
..	..	..	..	..	*582
..	..	..	..	..	*584
..	..	..	..	..	*582
..	..	..	..	..	*579
..	..	..	..	..	*195
..	..	..	..	..	*197
..	..	..	..	..	*192
..	..	..	..	..	*193
..	..	..	..	..	24
..	..	..	..	..	25
..	..	..	..	..	25
..	..	..	..	..	25
..	..	5	..	..	122
..	..	4	..	..	123
..	..	4	..	..	123
..	..	4	..	..	123
..	..	107	..	3,301	46,861
..	..	116	..	3,356	45,750
..	..	68	109	3,410	42,595
..	..	84	55	3,347	43,610
..	..	..	..	..	1
..	..	..	..	..	1
..	..	..	..	..	1
..	..	..	..	..	*1
..	..	..	..	..	68,706
..	..	..	..	..	68,873
..	..	..	..	..	70,047
..	..	..	..	..	*70,190

Table 13

Production of biofuels and wastes

Terajoules

Country or area	Year	Solid biofuels					
		Fuelwood	Animal waste	Vegetal waste	Bagasse	Black liquor	Charcoal
Samoa	2018	*1,089	..	*377	..	..	16
	2019	*1,087	..	*377	..	..	17
	2020	983	..	351	..	..	17
	2021	*1,003	..	*358	..	..	*17
Solomon Islands	2018	1,231	..	*2,074	..	..	44
	2019	1,235	..	*2,075	..	..	45
	2020	1,239	..	*2,100	..	..	46
	2021	1,243	..	*2,080	..	..	47
Tonga	2018	19	..	..	..	..	7
	2019	19	..	..	..	..	7
	2020	19	..	..	..	..	7
	2021	19	..	..	..	..	7
Vanuatu	2018	831	..	..	..	..	19
	2019	831	..	..	..	..	20
	2020	831	..	..	..	..	20
	2021	831	..	..	..	..	21
Wallis and Futuna Is.	2018	*7	..	..	..	..	..
	2019	*7	..	..	..	..	..
	2020	*7	..	..	..	..	..
	2021	*7	..	..	..	..	..

Production of biofuels and wastes

Terajoules

Non-biomass wastes		Liquid biofuels		Biogases	Total
Industrial waste	Municipal waste	Biogasoline	Biodiesel		
..	..	..	..	0	*1,466
..	..	..	..	0	*1,464
..	..	..	..	0	1,334
..	..	..	..	0	*1,361
..	..	..	..	..	*3,305
..	..	..	..	..	*3,310
..	..	..	..	..	*3,339
..	..	..	..	..	*3,323
..	..	..	..	..	19
..	..	..	..	..	19
..	..	..	..	..	19
..	..	..	..	..	19
..	..	5	..	..	837
..	..	8	..	..	840
..	..	8	..	..	840
..	..	*9	..	..	840
..	..	..	..	..	*7
..	..	..	..	..	*7
..	..	..	..	..	*7
..	..	..	..	..	*7

Table 14

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 39: Production of conventional crude oil by region, 1990-2021

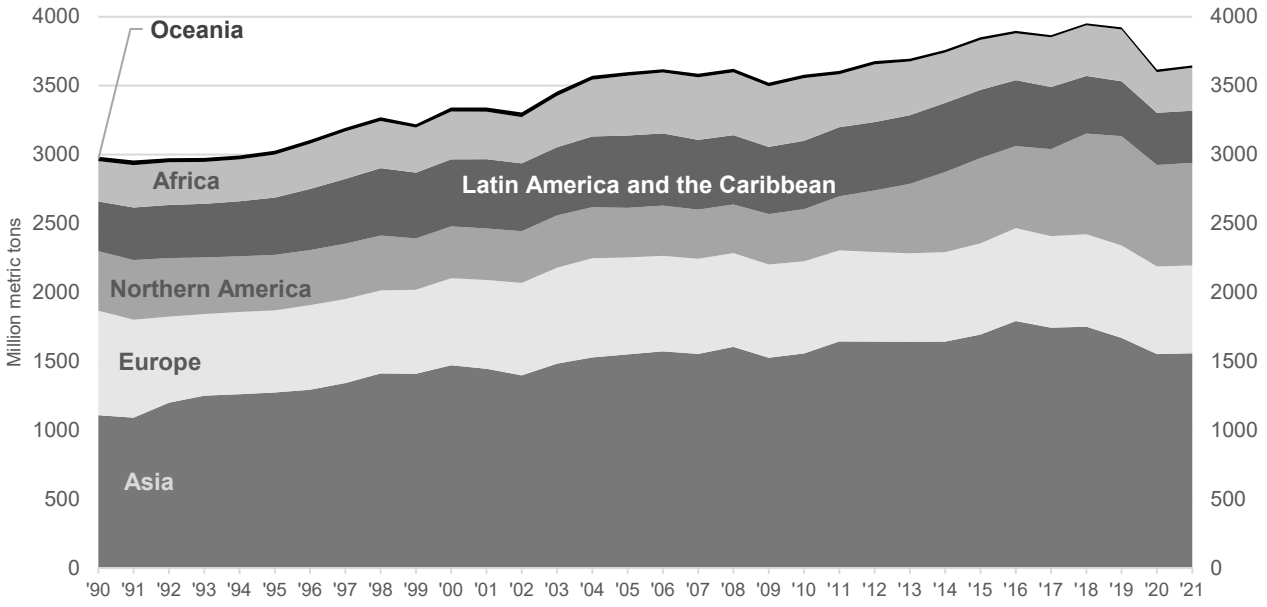


Figure 40: Exports of conventional crude oil by region, 1990-2021

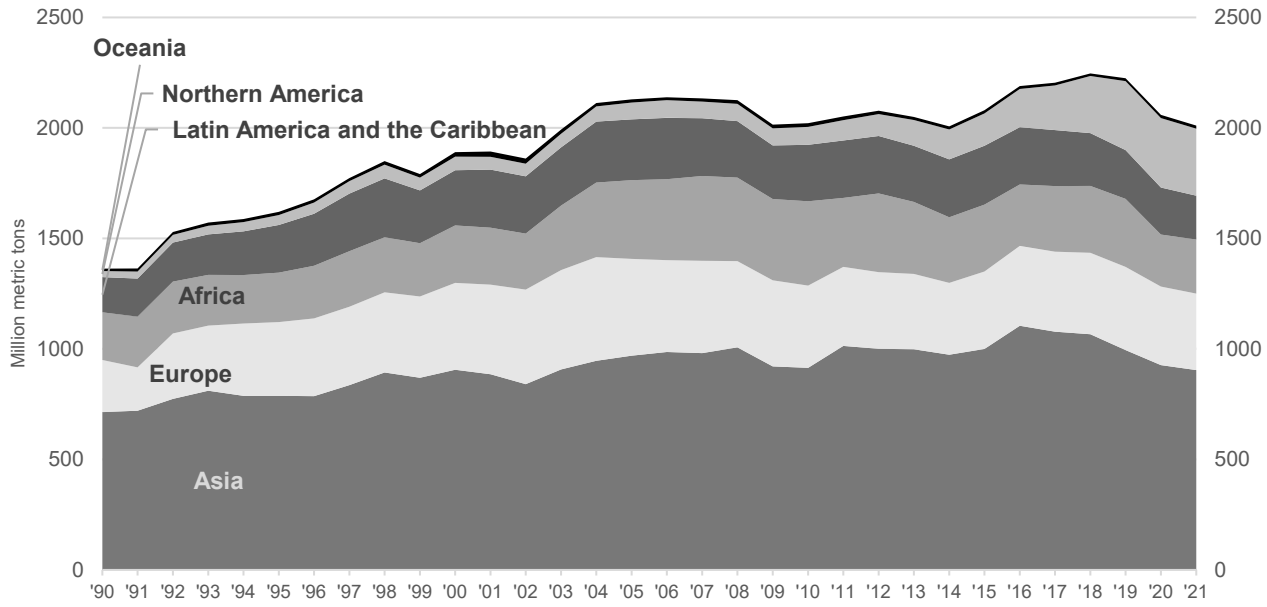


Figure 41: Production, trade and supply of conventional crude oil by region, 2021

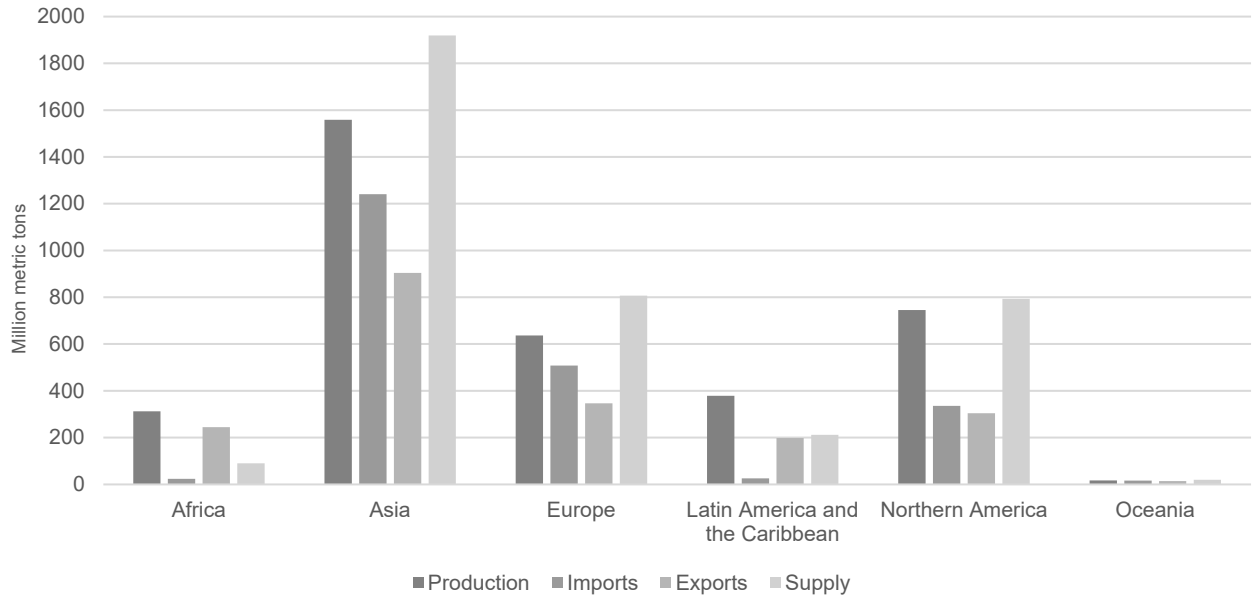


Figure 42: Major crude oil producing countries, 2021

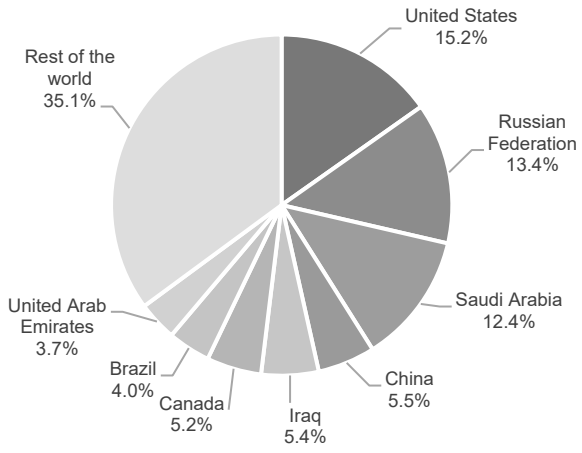


Figure 43: Major crude oil consuming countries, 2021

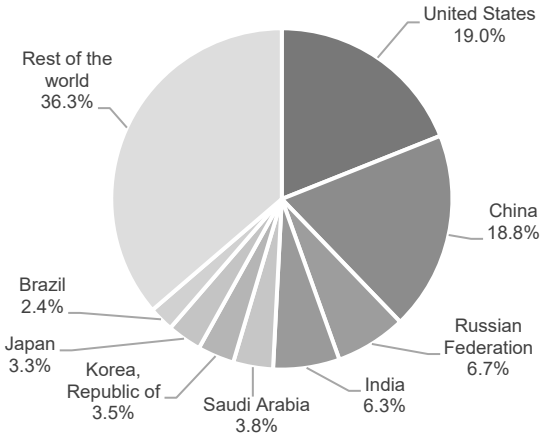


Table 14

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	**2018**	**3,952,586**	**56**	**2,356,968**	**2,246,832**	**9,852**	**4,052,870**	**527**
	2019	**3,923,643**	**56**	**2,325,523**	**2,224,861**	**1,263**	**4,023,042**	**518**
	2020	**3,616,686**	**60**	**2,140,106**	**2,058,678**	**32,081**	**3,666,032**	**468**
	2021	**3,646,903**	**59**	**2,148,462**	**2,010,495**	**-54,642**	**3,839,512**	**485**
Africa	**2018**	**367,102**	**42**	**36,912**	**302,248**	**1,937**	**99,829**	**77**
	2019	**375,238**	**40**	**34,679**	**307,471**	**3,435**	**99,011**	**75**
	2020	**294,906**	**51**	**31,021**	**235,507**	**1,364**	**89,057**	**66**
	2021	**312,035**	**48**	**23,357**	**244,731**	**1,169**	**89,492**	**64**
Algeria	2018	48,588	23	204	21,676	-247	27,363	653
	2019	48,394	24	160	22,181	32	26,341	617
	2020	42,567	26	0	16,736	331	25,500	587
	2021	42,688	26	0	17,127	-316	25,877	586
Angola	2018	71,623	15	..	69,043	*728	1,852	59
	2019	66,981	15	..	63,862	*600	2,519	78
	2020	61,744	16	..	59,228	244	2,272	68
	2021	54,458	18	..	52,306	172	1,980	57
Cameroon	2018	3,486	5	541	2,904	..	1,122	45
	2019	3,606	5	280	3,284	..	602	23
	2020	3,683	5	..	3,683	..	0	0
	2021	3,552	5	..	3,552	..	0	0
Chad	2018	6,463	33	..	5,763	..	700	45
	2019	6,731	32	..	6,031	..	700	43
	2020	*6,937	31	..	6,207	..	*730	*44
	2021	*6,664	32	..	5,864	..	*800	*47
Congo	2018	16,629	25	..	15,788	15	826	152
	2019	16,924	24	..	15,904	185	835	150
	2020	15,461	26	..	14,545	109	807	142
	2021	13,708	29	..	12,887	-10	831	142
Côte d'Ivoire	2018	1,672	8	2,469	1,514	..	2,627	103
	2019	1,810	8	2,928	1,757	..	2,981	114
	2020	1,460	10	2,575	1,347	-32	2,719	101
	2021	1,220	11	3,371	1,154	-28	3,465	126
Dem. Rep. of the Congo	2018	1,150	21	..	1,150	..	0	0
	2019	1,118	21	..	1,118	..	0	0
	2020	1,197	20	..	1,197	..	0	0
	2021	1,175	20	..	1,175	..	0	0
Egypt	2018	31,189	12	6,103	10,675	..	26,617	257
	2019	31,103	12	5,458	10,311	..	26,250	249
	2020	29,996	13	11,462	9,177	..	32,281	300
	2021	28,503	13	9,537	7,631	..	30,409	278
Equatorial Guinea	2018	7,599	18	..	7,472	27	100	67
	2019	7,162	19	..	7,058	*9	95	61
	2020	7,168	20	..	7,073	..	95	60
	2021	5,930	24	..	5,947	*-114	97	59
Gabon	2018	9,487	29	..	8,691	97	699	319
	2019	10,877	25	..	10,331	-49	595	265
	2020	10,385	26	..	9,869	-315	831	363
	2021	10,026	27	..	9,085	-16	957	409
Ghana	2018	8,876	10	197	8,860	-194	407	13
	2019	10,206	9	830	10,141	14	882	28
	2020	9,561	9	692	9,637	90	526	16
	2021	7,864	11	73	7,917	-28	50	2

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	2018	53,338	112	..	48,483	..	4,855	749
	2019	59,710	100	..	50,288	..	9,422	1,434
	2020	18,748	309	..	16,717	..	2,031	305
	2021	58,125	102	..	52,517	..	5,608	833
Morocco	2018	5	52	..	..	..	5	0
	2019	4	58	..	..	..	4	0
	2020	4	61	..	..	..	4	0
	2021	3	77	..	..	..	3	0
Mozambique	2018	..	237	..	..	..	..	..
	2019	..	274	..	..	..	..	..
	2020	..	320	..	..	..	..	..
	2021	..	338	..	..	..	..	..
Niger	2018	829	24	..	..	10	818	36
	2019	905	22	..	..	150	755	32
	2020	855	23	..	..	..	855	35
	2021	*878	23	..	..	..	*878	*35
Nigeria	2018	93,117	52	..	90,830	756	1,531	8
	2019	95,543	50	..	94,094	1,073	376	2
	2020	72,050	64	..	70,560	1,490	0	0
	2021	63,844	72	..	58,566	5,151	128	1
Senegal	2018	..	..	1,024	..	-26	1,050	67
	2019	..	..	1,024	..	..	1,024	64
	2020	..	..	767	..	-54	821	50
	2021	..	..	896	..	..	896	53
South Africa	2018	26	22	24,256	..	856	23,426	409
	2019	13	26	21,713	..	1,325	20,401	351
	2020	25	36	13,188	..	-344	13,557	231
	2021	15	45	7,658	..	-3,741	11,414	192
South Sudan	2018	7,200	66	..	7,131	..	69	7
	2019	8,600	55	..	8,517	..	83	8
	2020	8,273	57	..	8,196	..	76	7
	2021	7,650	62	..	7,466	..	184	17
Sudan	2018	3,839	53	988	888	..	3,939	94
	2019	*3,867	52	*1,456	1,036	..	*4,287	*99
	2020	3,243	62	1,334	165	..	4,412	99
	2021	*3,800	53	*525	*146	..	*4,179	*92
Tunisia	2018	1,987	26	512	1,380	-57	1,176	99
	2019	1,686	30	125	1,559	93	159	13
	2020	1,550	33	807	1,170	20	1,167	96
	2021	1,932	27	1,254	1,392	114	1,679	137
Zambia	2018	..	..	618	..	-28	647	36
	2019	..	..	705	..	4	700	38
	2020	..	..	197	..	*-176	372	20
	2021	..	..	42	..	*-14	57	3
Asia	**2018**	**1,751,284**	**63**	**1,249,790**	**1,065,856**	**4,587**	**1,930,631**	**421**
	2019	**1,668,972**	**66**	**1,280,130**	**994,179**	**3,611**	**1,951,311**	**422**
	2020	**1,552,463**	**71**	**1,236,092**	**926,532**	**26,409**	**1,835,613**	**394**
	2021	**1,558,539**	**70**	**1,240,651**	**903,948**	**-24,154**	**1,919,395**	**409**
Afghanistan	2018	..	..	185	..	..	185	5
	2019	..	..	118	..	..	118	3
	2020	..	..	51	..	..	51	1
	2021	..	..	*141	86	..	*55	*1

Table 14

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
Azerbaijan	2018	35,925	25	..	30,141	-15	5,799	571
	2019	33,597	26	..	27,704	18	5,876	574
	2020	30,333	28	..	24,831	190	5,312	516
	2021	29,237	28	..	23,904	-206	5,539	537
Bahrain	2018	9,682	1	10,951	7,693	..	12,940	8,700
	2019	9,684	1	11,119	7,654	..	13,149	8,800
	2020	9,709	1	8,823	7,439	..	11,093	7,508
	2021	9,623	1	9,002	7,449	..	11,176	7,638
Bangladesh	2018	..	10	1,209	..	..	1,209	7
	2019	..	10	1,362	..	..	1,362	8
	2020	..	11	1,152	..	..	1,152	7
	2021	..	13	1,435	..	..	1,435	8
Brunei Darussalam	2018	4,943	27	..	4,571	151	221	509
	2019	5,442	25	1,453	5,312	-65	1,648	3,763
	2020	5,004	28	6,242	3,570	-55	7,731	17,502
	2021	4,873	29	6,348	3,513	21	7,687	17,259
Cambodia	2018	..	..	..	..	..	..	..
	2019	..	..	..	..	..	..	..
	2020	..	..	..	..	..	..	..
	2021	40	..	..	40	..	0	0
China	2018	189,324	19	461,886	2,627	10,091	638,492	451
	2019	191,014	19	505,676	810	15,805	680,075	478
	2020	194,769	18	542,007	1,638	35,441	699,697	491
	2021	198,881	18	512,922	2,611	-13,906	723,098	507
Georgia	2018	30	166	2	9	1	22	6
	2019	35	143	9	..	7	38	10
	2020	31	160	4	..	-2	37	10
	2021	35	141	..	..	1	35	9
India	2018	34,200	15	226,500	..	..	260,700	190
	2019	*32,169	17	*226,955	..	..	*259,124	*187
	2020	*30,494	17	*196,461	..	203	*226,752	*162
	2021	*29,691	18	*211,980	..	-691	*242,362	*172
Indonesia	2018	40,691	10	15,404	8,929	1,769	45,397	170
	2019	39,026	9	10,122	3,526	-3,515	49,137	182
	2020	41,216	8	12,193	5,158	-126	48,376	178
	2021	38,481	9	15,932	7,061	-478	47,831	175
Iran (Islamic Rep. of)	2018	176,067	104	..	91,837	..	84,229	984
	2019	117,680	148	..	32,330	..	85,350	986
	2020	101,613	166	..	20,084	..	81,529	934
	2021	122,356	142	..	37,874	..	84,482	961
Iraq	2018	224,404	86	..	189,721	634	34,049	839
	2019	231,478	84	..	194,941	-372	36,909	888
	2020	199,453	97	..	168,881	137	30,435	715
	2021	198,058	98	..	168,968	-190	29,280	673
Israel	2018	74	27	11,533	..	-448	12,055	1,426
	2019	84	24	12,313	..	80	12,316	1,431
	2020	130	15	11,116	..	-109	11,356	1,297
	2021	165	12	11,672	..	-21	11,858	1,332
Japan	2018	166	10	149,156	..	471	148,852	1,179
	2019	211	10	145,187	..	-1,538	146,936	1,168
	2020	217	10	115,082	..	-3,023	118,322	945
	2021	190	11	126,516	..	985	125,720	1,009

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
Jordan	2018	1	250	2,366	..	11	2,356	225
	2019	2	156	2,321	..	*-80	2,403	225
	2020	2	139	2,074	..	*256	1,820	167
	2021	21	12	1,757	..	*-182	1,960	176
Kazakhstan	2018	77,496	44	25	58,435	442	18,645	1,006
	2019	78,643	43	36	59,649	-462	19,492	1,039
	2020	73,007	46	14	57,935	-289	15,374	810
	2021	74,733	45	0	*56,412	-908	19,230	1,002
Korea, Dem.Ppl's.Rep.	2018	..	..	532	..	..	532	21
	2019	..	..	532	..	..	532	21
	2020	..	..	532	..	..	532	21
	2021	..	..	532	..	..	532	20
Korea, Republic of	2018	26	..	150,281	..	-2,144	152,451	2,950
	2019	21	..	144,555	..	1,538	143,038	2,761
	2020	14	..	132,462	..	279	132,198	2,550
	2021	5	..	129,409	..	-3,653	133,067	2,567
Kuwait	2018	138,731	95	..	103,616	..	35,115	8,134
	2019	135,742	97	..	100,500	..	35,242	7,935
	2020	123,983	106	..	96,142	..	27,841	6,385
	2021	122,397	108	..	91,967	..	30,430	7,160
Kyrgyzstan	2018	200	25	410	70	-9	549	88
	2019	233	21	134	51	-6	322	51
	2020	239	21	1	51	9	180	28
	2021	276	18	2	6	-11	283	43
Malaysia	2018	30,917	11	8,927	14,506	435	24,903	769
	2019	28,890	12	10,126	12,061	*1,994	24,961	761
	2020	25,897	13	6,847	10,245	*22	22,477	677
	2021	24,549	14	6,442	8,585	-757	23,165	690
Mongolia	2018	756	46	..	733	24	0	0
	2019	814	43	..	775	*39	0	0
	2020	561	62	..	556	*5	0	0
	2021	638	55	..	594	*44	0	0
Myanmar	2018	766	4	..	242	..	524	10
	2019	432	7	..	201	..	231	4
	2020	467	6	..	50	-2	419	8
	2021	200	15	..	83	..	117	2
Oman	2018	48,784	15	..	39,522	..	9,262	2,013
	2019	47,433	15	..	41,540	..	5,894	1,280
	2020	46,573	16	..	38,420	..	8,153	1,794
	2021	47,457	15	..	38,688	..	8,768	1,940
Other Asia	2018	5	6	51,065	..	-534	51,604	2,175
	2019	4	8	51,561	..	-93	51,658	2,173
	2020	2	14	42,908	..	715	42,195	1,771
	2021	2	12	44,250	..	-364	44,617	1,870
Pakistan	2018	4,439	11	9,009	572	..	12,876	59
	2019	3,838	12	6,677	474	..	10,041	45
	2020	3,766	12	8,815	280	..	12,301	54
	2021	*4,144	11	9,279	402	..	13,021	56
Philippines	2018	173	27	11,702	146	10	11,719	108
	2019	106	31	8,288	136	83	8,175	74
	2020	96	35	4,500	346	-565	4,815	43
	2021	86	41	4,056	86	-102	4,158	37

Table 14

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
Qatar	2018	29,233	37	..	25,676	..	3,557	1,286
	2019	31,638	37	..	27,789	..	3,849	1,371
	2020	29,431	38	..	26,428	..	3,003	1,088
	2021	26,830	40	..	23,348	..	3,482	1,295
Saudi Arabia	2018	513,064	72	..	363,997	*-5,412	154,479	4,411
	2019	487,834	75	..	350,529	*-6,852	144,157	4,024
	2020	459,498	80	..	335,110	-2,075	126,463	3,513
	2021	453,841	78	..	309,427	-731	145,144	4,037
Singapore	2018	..	..	54,625	109	-196	54,712	9,410
	2019	..	..	51,866	0	142	51,725	8,817
	2020	..	..	44,807	0	-105	44,912	7,600
	2021	..	..	47,601	1,238	-436	46,799	7,877
Sri Lanka	2018	..	..	1,763	..	0	1,763	82
	2019	..	..	1,843	..	..	1,843	85
	2020	..	..	1,666	..	..	1,666	77
	2021	..	..	1,130	..	-213	1,343	62
Syrian Arab Republic	2018	904	348	5,955	..	..	6,859	355
	2019	1,413	228	4,745	..	..	6,158	306
	2020	1,865	174	4,556	..	..	6,421	309
	2021	1,894	171	4,315	..	..	6,209	291
Tajikistan	2018	24	85	45	..	..	69	8
	2019	12	164	*21	..	..	*33	*4
	2020	25	82	*10	..	..	35	4
	2021	25	81	3	..	..	28	3
Thailand	2018	11,399	2	48,925	1,531	-4,114	62,908	884
	2019	11,245	2	43,609	1,278	-3,409	56,985	799
	2020	10,093	2	43,895	1,228	-3,069	55,828	781
	2021	8,865	2	44,482	805	-2,241	54,784	765
Timor-Leste	2018	..	101	..	..	..	..	..
	2019	..	65	..	..	..	..	..
	2020	..	99	..	..	..	..	..
	2021	..	99	..	..	..	..	..
Türkiye	2018	2,851	16	20,972	..	-81	23,904	289
	2019	2,986	15	31,075	..	301	33,760	404
	2020	3,203	14	29,369	..	-183	32,755	389
	2021	3,442	13	31,418	..	344	34,516	407
Turkmenistan	2018	9,650	8	..	1,050	..	8,600	1,418
	2019	9,400	8	..	800	..	8,600	1,396
	2020	9,275	8	..	957	..	8,318	1,331
	2021	9,050	8	..	775	..	8,275	1,305
United Arab Emirates	2018	149,985	70	..	114,539	1,464	33,982	3,718
	2019	152,482	69	..	120,379	..	32,103	3,485
	2020	138,666	74	8,147	120,596	-1,242	27,459	2,957
	2021	135,640	73	9,340	115,082	-599	30,497	3,256
Uzbekistan	2018	746	28	1,185	..	7	1,924	59
	2019	701	27	651	..	-5	1,357	41
	2020	754	29	613	..	-3	1,370	41
	2021	774	31	*645	..	*-5	1,424	42
Viet Nam	2018	11,989	48	5,177	3,961	2,032	11,173	118
	2019	11,043	52	7,776	3,976	..	14,843	155
	2020	8,820	65	11,745	4,657	..	15,908	165
	2021	9,053	63	10,040	3,125	144	15,824	162

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
Yemen	2018	3,639	102	..	1,624	..	2,015	65
	2019	3,639	99	..	1,766	..	1,873	59
	2020	3,259	110	..	1,931	..	1,329	41
	2021	2,988	120	..	1,819	..	1,168	35
Europe	**2018**	**670,896**	**23**	**585,335**	**369,208**	**1,095**	**885,928**	**1,185**
	2019	**671,876**	**23**	**578,484**	**376,879**	**876**	**872,605**	**1,166**
	2020	**635,972**	**24**	**500,309**	**355,302**	**1,059**	**779,920**	**1,042**
	2021	**636,359**	**24**	**507,784**	**346,324**	**-8,635**	**806,454**	**1,079**
Albania	2018	911	29	..	583	30	298	104
	2019	1,005	26	..	631	39	335	117
	2020	758	34	..	577	46	134	47
	2021	712	36	..	548	..	165	58
Austria	2018	670	10	8,333	..	34	8,970	1,015
	2019	634	11	8,592	..	102	9,124	1,028
	2020	548	12	7,610	..	-10	8,168	917
	2021	550	12	7,567	..	-125	8,243	924
Belarus	2018	1,670	15	18,248	1,640	7	18,271	1,884
	2019	1,690	15	17,998	1,649	163	17,876	1,848
	2020	1,710	15	15,972	1,217	156	16,309	1,693
	2021	1,737	15	15,972	1,217	..	16,492	1,722
Belgium	2018	..	..	33,017	..	-7	33,024	2,885
	2019	..	..	34,513	..	-3	34,517	2,999
	2020	..	..	27,323	..	139	27,184	2,351
	2021	..	..	28,686	192	-239	28,733	2,475
Bosnia and Herzegovina	2018	..	..	683	..	-14	697	205
	2019	..	..	6	..	-77	83	25
	2020	..	..	..	..	..	..	..
	2021	..	..	..	..	..	..	..
Bulgaria	2018	22	89	5,858	..	-6	5,886	827
	2019	..	..	6,985	..	175	6,810	966
	2020	..	..	4,859	..	-31	4,890	701
	2021	..	..	4,153	..	-60	4,213	612
Croatia	2018	688	9	2,966	..	64	3,590	863
	2019	664	10	2,006	122	-46	2,595	628
	2020	594	11	1,944	555	-6	1,988	485
	2021	566	11	1,762	473	-7	1,862	458
Czechia	2018	110	18	7,439	22	4	7,523	714
	2019	81	25	7,738	..	-28	7,847	745
	2020	92	22	6,174	..	198	6,068	576
	2021	84	24	6,841	..	-185	7,110	676
Denmark	2018	5,666	10	4,714	2,809	25	7,546	1,309
	2019	5,017	11	5,037	2,301	151	7,602	1,312
	2020	3,520	16	4,668	1,089	34	7,065	1,213
	2021	3,237	18	5,184	854	-68	7,636	1,304
Finland	2018	..	..	11,511	..	12	11,499	2,085
	2019	..	..	11,901	..	-126	12,027	2,178
	2020	..	..	10,717	..	-29	10,746	1,943
	2021	..	..	7,820	..	-128	7,948	1,436
France	2018	774	14	52,727	0	-448	53,948	810
	2019	725	15	48,335	67	-49	49,042	735
	2020	650	17	33,121	82	-43	33,731	505
	2021	658	17	33,832	76	-309	34,723	519

Table 14

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
Germany	2018	2,070	15	85,209	..	-503	87,782	1,059
	2019	1,927	16	85,991	106	421	87,391	1,051
	2020	1,907	16	82,724	..	481	84,150	1,010
	2021	1,805	17	81,296	..	-672	83,773	1,004
Greece	2018	206	5	24,330	202	7	24,327	2,288
	2019	168	6	22,826	242	-275	23,027	2,178
	2020	92	11	22,767	89	519	22,250	2,117
	2021	59	17	23,407	56	-309	23,719	2,271
Hungary	2018	808	4	6,677	394	51	7,040	720
	2019	930	4	6,108	191	42	6,805	696
	2020	841	4	6,100	199	28	6,714	689
	2021	881	4	6,008	134	32	6,723	692
Ireland	2018	..	..	2,986	..	-38	3,024	625
	2019	..	..	2,553	..	22	2,531	517
	2020	..	..	2,904	..	66	2,838	574
	2021	..	..	2,967	..	-58	3,025	607
Italy	2018	4,684	16	62,053	502	-757	66,992	1,118
	2019	4,279	17	63,140	..	146	67,272	1,126
	2020	5,384	15	50,363	177	-80	55,650	935
	2021	4,831	16	57,023	174	-74	61,753	1,042
Lithuania	2018	46	22	9,653	45	-35	9,689	3,369
	2019	40	25	9,630	38	116	9,516	3,340
	2020	32	32	7,840	37	-13	7,848	2,783
	2021	29	35	8,008	27	55	7,955	2,855
Netherlands (Kingd. of the)	2018	901	27	54,305	434	-169	54,942	3,178
	2019	747	34	57,555	393	1,061	56,847	3,274
	2020	737	35	49,449	383	-599	50,402	2,891
	2021	749	35	52,499	316	-855	53,788	3,073
Norway	2018	73,704	13	3,283	61,927	393	14,666	2,761
	2019	70,008	14	3,490	60,860	-616	13,254	2,478
	2020	84,427	11	3,236	75,112	729	11,822	2,198
	2021	87,414	11	2,470	78,909	-798	11,774	2,179
Poland	2018	1,010	15	26,847	296	554	27,007	701
	2019	973	15	26,622	243	76	27,276	709
	2020	937	16	24,906	199	37	25,607	666
	2021	888	17	23,620	181	-434	24,761	646
Portugal	2018	..	..	12,651	..	111	12,539	1,219
	2019	..	..	11,165	..	48	11,118	1,080
	2020	..	..	10,716	..	-187	10,903	1,059
	2021	..	..	9,366	..	-133	9,499	923
Republic of Moldova	2018	5	..	0	..	0	5	2
	2019	5	..	..	..	..	5	2
	2020	5	..	..	4	0	1	0
	2021	5	..	..	5	0	1	0
Romania	2018	3,486	22	8,265	0	87	11,663	595
	2019	3,440	22	8,665	5	143	11,956	612
	2020	3,334	23	7,073	9	-100	10,499	540
	2021	3,196	24	6,823	8	-66	10,077	521
Russian Federation	2018	523,321	26	0	259,830	2,327	261,165	1,793
	2019	527,586	26	..	269,200	-1,569	259,955	1,784
	2020	482,214	29	..	239,200	-196	243,209	1,670
	2021	488,253	28	..	232,712	*-2,594	258,135	1,779

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
Serbia	2018	877	8	2,686	..	5	3,557	479
	2019	850	8	2,346	..	58	3,139	424
	2020	828	8	2,549	..	56	3,320	451
	2021	808	8	2,693	..	-85	3,585	491
Slovakia	2018	5	143	5,436	5	8	5,428	997
	2019	4	167	5,143	4	33	5,110	937
	2020	2	250	5,655	2	80	5,575	1,022
	2021	5	143	5,467	5	-40	5,507	1,011
Spain	2018	87	218	67,586	..	-220	67,893	1,451
	2019	40	475	66,303	..	695	65,648	1,393
	2020	28	679	54,855	..	-271	55,154	1,164
	2021	6	3,267	56,172	..	-745	56,922	1,199
Sweden	2018	..	..	19,969	..	-140	20,109	1,979
	2019	..	..	16,351	..	-4	16,355	1,593
	2020	..	..	17,676	..	182	17,494	1,687
	2021	..	..	17,953	..	-488	18,441	1,762
Switzerland	2018	..	..	3,018	..	4	3,014	354
	2019	..	..	2,732	..	9	2,723	318
	2020	..	..	2,804	..	-10	2,814	326
	2021	..	..	2,276	..	-12	2,289	263
Ukraine	2018	1,624	24	723	..	-6	2,353	53
	2019	1,719	22	790	..	-16	2,525	57
	2020	1,675	22	1,246	80	-24	2,865	65
	2021	1,648	23	1,561	90	..	3,120	72
United Kingdom	2018	47,550	7	44,163	40,519	-284	51,479	775
	2019	49,344	6	43,963	40,827	185	52,295	783
	2020	45,658	7	35,058	36,290	-96	44,522	664
	2021	38,239	8	36,357	30,349	-238	44,485	661
Latin America & Carib.	**2018**	**418,573**	**116**	**38,413**	**239,327**	**993**	**216,666**	**338**
	2019	**398,954**	**122**	**30,953**	**220,923**	**-1,379**	**210,363**	**326**
	2020	**379,455**	**128**	**23,887**	**212,737**	**-6,218**	**196,823**	**302**
	2021	**378,504**	**129**	**25,600**	**198,058**	**-5,728**	**211,775**	**323**
Argentina	2018	25,281	11	396	3,197	31	22,449	505
	2019	26,269	11	0	3,389	-373	23,253	520
	2020	24,889	12	..	4,007	151	20,731	460
	2021	26,521	11	..	3,077	-180	23,624	522
Barbados	2018	28	9	..	28	0	0	0
	2019	29	9	..	32	-3	0	0
	2020	24	10	..	48	-24	0	0
	2021	16	16	..	20	-4	0	0
Belize	2018	44	6	..	29	3	12	31
	2019	39	6	..	31	..	8	20
	2020	27	9	..	10	-2	19	47
	2021	24	10	..	10	-5	19	47
Bolivia (Plur. State of)	2018	1,967	7	..	..	0	1,968	170
	2019	1,741	8	..	..	9	1,732	147
	2020	1,580	9	..	..	-8	1,588	133
	2021	1,535	8	..	..	-2	1,537	127
Brazil	2018	132,713	14	9,530	55,164	152	86,927	414
	2019	142,845	12	8,796	62,866	1,701	87,074	411
	2020	151,093	11	8,597	70,169	-758	90,279	423
	2021	147,437	11	7,105	63,453	302	90,787	424

Table 14

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
Chile	2018	154	53	8,553	..	-52	8,759	468
	2019	167	42	9,305	..	32	9,440	496
	2020	77	55	7,223	..	-88	7,388	383
	2021	91	58	7,914	..	45	7,961	408
Colombia	2018	45,929	6	..	31,704	..	14,225	289
	2019	46,528	6	..	29,550	-453	17,432	347
	2020	41,139	7	65	28,639	-4,671	17,236	338
	2021	38,846	7	308	24,598	-5,280	19,835	385
Cuba	2018	2,463	1	2,550	..	..	5,013	443
	2019	2,372	1	2,416	..	..	4,787	423
	2020	2,320	1	1,793	..	..	4,114	364
	2021	2,433	1	2,305	..	..	4,739	421
Curaçao	2018	..	..	3,253	..	..	3,253	17,608
	2019	..	..	0	..	..	0	0
	2020	..	..	..	..	..	..	..
	2021	..	..	..	..	..	..	..
Dominican Republic	2018	..	..	1,245	..	-23	1,268	118
	2019	..	..	1,250	..	-34	1,283	118
	2020	..	..	498	..	..	498	45
	2021	..	..	1,277	..	-28	1,305	117
Ecuador	2018	26,240	7	..	18,019	-399	8,620	507
	2019	26,938	7	..	19,048	-484	8,374	483
	2020	24,386	8	..	17,574	395	6,417	365
	2021	23,989	8	..	16,324	-505	8,170	459
Guatemala	2018	526	21	..	353	16	156	9
	2019	547	20	..	307	94	146	9
	2020	446	25	..	219	117	110	6
	2021	360	31	..	175	53	132	7
Guyana	2018	..	..	..	..	..	..	..
	2019	63	..	..	..	63	0	0
	2020	3,739	..	..	3,658	81	0	0
	2021	5,767	..	..	5,767	..	0	0
Jamaica	2018	..	..	1,035	..	..	1,035	368
	2019	..	..	1,386	..	..	1,386	493
	2020	..	..	1,155	..	..	1,155	410
	2021	..	..	1,184	..	0	1,184	419
Mexico	2018	95,073	9	192	63,626	1,554	30,085	243
	2019	88,386	9	..	59,426	-1,984	30,944	247
	2020	88,494	9	..	59,519	-1,645	30,620	243
	2021	90,385	9	..	54,053	309	36,023	284
Nicaragua	2018	..	..	648	..	*-30	678	103
	2019	..	..	559	..	-3	562	84
	2020	..	..	573	..	12	561	83
	2021	..	..	718	..	-12	731	107
Peru	2018	2,442	17	5,629	324	-233	7,980	248
	2019	2,647	16	5,242	284	112	7,494	228
	2020	1,988	16	2,039	560	179	3,288	99
	2021	1,898	19	2,788	1,345	-326	3,666	109
Suriname	2018	916	13	9	..	..	925	1,558
	2019	924	13	..	..	..	924	1,538
	2020	916	13	..	..	..	916	1,509
	2021	916	13	..	..	..	916	1,494

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
Trinidad and Tobago	2018	3,277	8	3,233	1,137	..	5,373	3,571
	2019	3,034	9	..	3,008	..	26	17
	2020	2,919	9	..	2,869	..	50	33
	2021	3,085	9	..	3,062	..	23	15
Uruguay	2018	..	..	2,139	..	-26	2,165	632
	2019	..	..	1,998	..	-57	2,055	599
	2020	..	..	1,944	..	43	1,901	554
	2021	..	..	2,002	..	-94	2,096	612
Venezuela (Bolivar. Rep.)	2018	81,521	554	..	65,746	..	15,775	529
	2019	56,425	799	..	42,982	..	13,443	464
	2020	35,418	1,275	..	25,465	..	9,952	349
	2021	35,200	1,289	..	26,172	..	9,028	320
Northern America	**2018**	**730,353**	**41**	**422,574**	**258,359**	**1,352**	**893,217**	**2,419**
	2019	**792,591**	**37**	**377,658**	**312,567**	**-5,389**	**863,070**	**2,320**
	2020	**735,581**	**39**	**329,183**	**314,054**	**9,263**	**741,447**	**1,983**
	2021	**744,994**	**38**	**335,167**	**303,872**	**-16,668**	**792,958**	**2,113**
Canada	2018	188,258	134	39,311	157,340	355	69,874	1,887
	2019	188,466	131	42,208	165,494	-966	66,146	1,763
	2020	177,532	138	38,041	155,878	707	58,988	1,557
	2021	189,915	130	32,806	157,876	98	64,747	1,697
United States	2018	542,095	12	383,263	101,019	997	823,343	2,479
	2019	604,126	11	335,450	147,074	-4,423	796,925	2,384
	2020	558,049	12	291,142	158,176	8,556	682,459	2,031
	2021	555,079	12	302,361	145,996	-16,767	728,211	2,161
Oceania	**2018**	**14,378**	**19**	**23,944**	**11,835**	**-112**	**26,599**	**625**
	2019	**16,012**	**17**	**23,619**	**12,842**	**108**	**26,682**	**617**
	2020	**18,310**	**14**	**19,614**	**14,547**	**205**	**23,172**	**527**
	2021	**16,471**	**16**	**15,902**	**13,562**	**-626**	**19,437**	**437**
Australia	2018	12,330	19	17,674	9,792	-119	20,331	814
	2019	14,224	16	17,184	11,075	276	20,057	791
	2020	16,564	13	14,438	12,896	57	18,049	703
	2021	14,828	15	11,089	12,216	-410	14,110	544
New Zealand	2018	1,075	14	4,948	1,070	-42	4,995	1,032
	2019	1,112	13	5,127	1,091	-170	5,319	1,073
	2020	947	15	3,728	901	88	3,686	728
	2021	844	17	3,363	594	-216	3,829	746
Papua New Guinea	2018	973	25	1,322	973	49	1,273	136
	2019	676	36	1,308	676	2	1,306	137
	2020	799	30	1,448	750	60	1,437	147
	2021	*800	30	*1,449	*751	..	*1,498	*151

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 44: Major additives producing countries, 2021

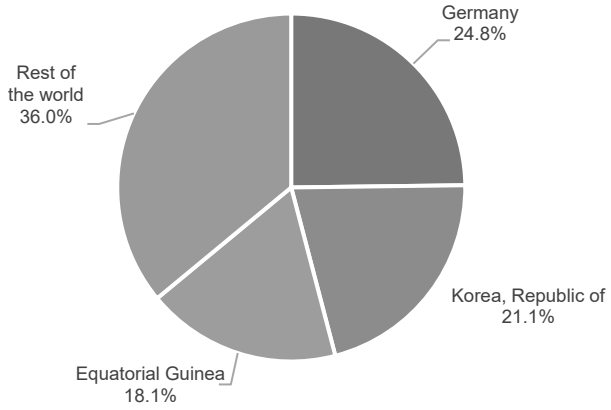


Figure 45: Major other hydrocarbons producing countries, 2021

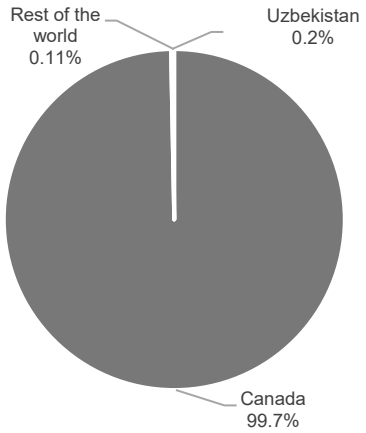


Table 15

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	**2018**	**5,100**	**7,930**	**55,944**	**32,538**
	2019	**4,960**	**8,890**	**64,063**	**36,836**
	2020	**4,698**	**6,227**	**64,182**	**36,609**
	2021	**5,088**	**6,093**	**65,933**	**37,932**
Africa	**2018**	**1,024**	**..**	**..**	**5,035**
	2019	**933**	**..**	**..**	**5,041**
	2020	**737**	**..**	**..**	**5,089**
	2021	**921**	**..**	**..**	**4,807**
Equatorial Guinea	2018	1,024	..	..	..
	2019	933	..	..	..
	2020	737	..	..	..
	2021	921	..	..	..
Nigeria	2018	..	..	..	200
	2019	..	..	..	200
	2020	..	..	..	201
	2021	..	..	..	200
South Africa	2018	..	..	..	4,835
	2019	..	..	..	4,840
	2020	..	..	..	4,888
	2021	..	..	..	4,606
Asia	**2018**	**984**	**5,046**	**145**	**12,142**
	2019	**1,176**	**5,562**	**145**	**16,103**
	2020	**1,406**	**6,028**	**127**	**15,802**
	2021	**1,766**	**5,857**	**131**	**17,296**
China	2018	..	..	..	5,815
	2019	..	..	..	9,042
	2020	..	..	..	8,505
	2021	..	..	..	9,024
Israel	2018	..	..	..	98
	2019	..	..	..	124
	2020	..	..	..	83
	2021	..	..	..	105
Kazakhstan	2018	..	..	..	..
	2019	..	..	..	..
	2020	..	..	..	..
	2021	21	..	..	..
Korea, Republic of	2018	748	..	..	..
	2019	741	..	..	..
	2020	912	..	..	..
	2021	1,075	..	..	..
Malaysia	2018	..	..	..	*531
	2019	..	..	..	445
	2020	..	..	..	481
	2021	..	..	..	565
Other Asia	2018	236	..	..	..
	2019	436	..	..	..
	2020	494	..	..	..
	2021	670	..	..	..
Qatar	2018	..	..	..	5,180
	2019	..	..	..	5,180
	2020	..	..	..	5,180
	2021	..	..	..	5,524

Production of additives and other hydrocarbons

Thousand metric tons

Country or area	Year	Additives		Other hydrocarbons	
		Production	From other sources	Production	From other sources
Saudi Arabia	2018	..	*5,046	..	..
	2019	..	*5,562	..	..
	2020	..	*6,028	..	..
	2021	..	*5,857	..	..
Türkiye	2018	..	..	..	517
	2019	..	..	..	927
	2020	..	..	..	826
	2021	..	..	..	993
Turkmenistan	2018	..	..	..	..
	2019	..	..	..	385
	2020	..	..	..	727
	2021	..	..	..	727
Uzbekistan	2018	..	..	145	..
	2019	..	..	145	..
	2020	..	..	127	..
	2021	..	..	131	358
Europe	**2018**	**2,852**	**211**	**..**	**7,441**
	2019	**2,667**	**190**	**..**	**7,635**
	2020	**2,384**	**199**	**30**	**7,620**
	2021	**2,177**	**236**	**74**	**7,425**
Belgium	2018	..	..	..	34
	2019	..	..	..	53
	2020	..	..	..	51
	2021	..	..	..	39
Bulgaria	2018	..	9	..	152
	2019	..	4	..	183
	2020	..	2	..	167
	2021	..	2	..	136
Croatia	2018	..	..	..	75
	2019	..	..	..	54
	2020	..	..	..	53
	2021	..	..	..	49
Czechia	2018	89	23	..	..
	2019	82	31	..	..
	2020	3	36	..	..
	2021	3	40	..	..
Estonia	2018	..	..	..	1,111
	2019	..	..	..	1,159
	2020	..	..	..	1,158
	2021	..	..	..	1,202
Finland	2018	..	..	..	262
	2019	..	..	..	283
	2020	..	..	..	249
	2021	..	..	..	239
France	2018	139	..	..	..
	2019	240	..	..	..
	2020	167	..	..	..
	2021	159	..	..	..
Germany	2018	1,570	..	..	..
	2019	1,421	..	..	..
	2020	1,328	..	..	..
	2021	1,261	..	..	..

Table 15

Production of additives and other hydrocarbons

Thousand metric tons

Country or area	Year	Additives		Other hydrocarbons	
		Production	From other sources	Production	From other sources
Hungary	2018	53	..	..	40
	2019	46	..	..	39
	2020	44	..	..	40
	2021	38	..	..	36
Ireland	2018	..	..	..	36
	2019	..	..	..	39
	2020	..	..	..	39
	2021	..	..	..	29
Italy	2018	460	..	..	..
	2019	486	..	..	..
	2020	486	..	30	..
	2021	347	..	74	..
Netherlands (Kingd. of the)	2018	375	..	..	..
	2019	233	..	..	..
	2020	191	..	..	..
	2021	269	..	..	..
Norway	2018	74	0	..	..
	2019	74	..	..	..
	2020	74	..	..	..
	2021	43	..	..	..
Poland	2018	7	..	..	636
	2019	22	..	..	592
	2020	7	..	..	550
	2021	7	..	..	485
Portugal	2018	..	..	..	65
	2019	..	..	..	66
	2020	..	..	..	55
	2021	..	..	..	49
Romania	2018	31	..	..	66
	2019	35	..	..	77
	2020	33	..	..	84
	2021	0	..	..	72
Russian Federation	2018	..	..	..	*4,806
	2019	..	..	..	*4,749
	2020	..	..	..	*4,749
	2021	..	..	..	*4,749
Serbia	2018	16	..	..	28
	2019	12	..	..	28
	2020	15	..	..	29
	2021	13	..	..	34
Slovakia	2018	..	178	..	131
	2019	..	155	..	129
	2020	..	161	..	126
	2021	..	194	..	140
Sweden	2018	..	..	..	..
	2019	..	..	..	184
	2020	..	..	..	272
	2021	..	..	..	165
Ukraine	2018	39	..	..	..
	2019	15	..	..	..
	2020	37	..	..	..
	2021	37	..	..	..

Production of additives and other hydrocarbons

Thousand metric tons

Country or area	Year	Additives		Other hydrocarbons	
		Production	From other sources	Production	From other sources
Latin America & Carib.	**2018**	**240**	**..**	**..**	**319**
	2019	**184**	**..**	**..**	**506**
	2020	**171**	**..**	**..**	**729**
	2021	**224**	**..**	**..**	**1,051**
Brazil	2018	..	..	..	283
	2019	..	..	..	475
	2020	..	..	..	714
	2021	..	..	..	1,013
Mexico	2018	240	..	..	36
	2019	184	..	..	31
	2020	171	..	..	15
	2021	224	..	..	14
Trinidad and Tobago	2018	..	..	..	..
	2019	..	..	..	..
	2020	..	..	..	..
	2021	..	..	..	23
Northern America	**2018**	**..**	**2,673**	**55,799**	**7,600**
	2019	**..**	**3,138**	**63,918**	**7,551**
	2020	**..**	**..**	**64,026**	**7,369**
	2021	**..**	**..**	**65,728**	**7,354**
Canada	2018	..	86	55,799	3,452
	2019	..	..	63,918	3,568
	2020	..	..	64,026	3,520
	2021	..	..	65,728	3,417
United States	2018	..	2,587	..	4,148
	2019	..	3,138	..	3,983
	2020	..	..	..	3,849
	2021	..	..	..	3,937

Table 16

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

Thousand metric tons

2020

Importers	Exporters							
	World	Angola	Brazil	Canada	Iraq	Kazakhstan	Kuwait	Libya
Australia	14,438	..	..	..	..	..	..	1,009
Bahrain	8,823	..	..	..	..	..	..	..
Belarus	15,972	..	..	..	..	1	..	..
Belgium	27,323	118	..	635	1,221	2,378	213	93
Brazil	8,597	34	..	..	272	..	..	46
Canada	38,078	..	..	..	..	..	..	..
Chile	7,223	143	2,897	135	..	..	..	..
China	542,007	41,772	42,234	837	60,114	3,645	27,497	1,697
Finland	10,717	..	..	..	..	..	..	..
France	33,121	1,373	252	..	951	5,358	276	884
Germany	82,724	3	99	576	2,233	7,427	422	1,855
Greece	22,767	..	..	..	8,149	3,931	..	170
India	196,461	4,018	3,564	109	47,283	3,345	9,892	..
Indonesia	12,068	..	..	..	144	..	..	..
Italy	50,363	558	257	833	8,719	3,478	..	3,485
Japan	115,082	..	..	..	674	386	10,199	..
Korea, Republic of	132,462	..	2,297	71	10,474	2,568	17,768	..
Netherlands (Kingd. of the)	49,449	912	1,115	196	2,137	..	895	243
Philippines	4,500	..	77	..	..	..	1,588	..
Poland	24,906	..	..	..	..	682	..	..
Portugal	10,716	1,099	2,816	..	..	..	..	..
Singapore	44,807	699	2,507	45	959	135	3,167	510
South Africa	13,188	129	269	..	..	..	..	..
Spain	54,855	1,696	3,070	523	3,505	4,518	..	1,967
Sweden	18,570	..	71	..	..	..	..	77
Thailand	43,895	3,533	..	..	..	..	821	820
Türkiye	29,369	144	..	..	11,784	3,332	..	951
United Kingdom	35,058	..	..	1,642	..	..	..	433
United States	291,142	1,378	3,814	*150,276	8,705	860	1,020	421

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

Thousand metric tons

2020

Exporters									
Mexico	Nigeria	Norway	Oman	Russian Federation	Saudi Arabia	United Arab Emirates	United Kingdom	United States	Venezuela (Bolivar. Rep.)
..	602	..	..	75	..	1,604	..	2,990	..
..	..	..	..	..	8,645	..	..	..	..
..	..	..	..	10,663	41	..	..	81	..
..	2,316	2,416	..	8,182	5,058	..	2,228	2,121	..
..	672	..	..	..	2,739	..	..	1,698	..
..	1,139	779	..	..	4,452	..	95	31,029	..
..	..	..	..	..	..	..	..	882	..
197	3,933	13,619	*34,672	83,444	84,929	31,155	5,375	23,785	..
..	..	1,312	..	9,007	..	..	311	..	..
..	3,194	3,552	..	2,906	3,911	..	778	4,207	..
..	5,174	8,033	..	28,132	2,194	..	9,489	9,371	..
..	..	150	..	4,037	1,762	..	218	645	..
8,078	*8,832	149	2,688	2,625	37,599	*16,859	155	13,888	..
..	2,308	72	..	..	4,196	102	..	..	..
..	2,714	1,339	..	5,596	6,645	..	753	1,578	724
..	..	..	450	4,176	49,735	34,861	..	768	..
6,806	1,327	1,171	530	6,368	43,833	10,524	1,239	14,167	..
..	3,838	4,957	..	13,080	2,884	..	8,511	6,760	..
..	227	..	..	452	*2,077	79	..	..	..
..	1,417	532	..	17,939	4,172	..	121	..	..
..	1,846	803	..	..	1,063	..	..	691	..
..	1,494	..	80	245	4,788	10,864	..	4,502	..
..	*5,733	74	..	140	5,497	644	..	702	..
8,443	10,840	996	..	980	5,542	..	1,017	3,095	1,405
..	1,351	12,110	..	1,423	..	..	717	1,596	..
..	2,470	..	..	2,809	9,784	13,904	..	3,742	..
..	2,463	2,841	..	3,268	3,160	..	..	..	..
..	2,965	11,755	..	3,948	69	..	..	11,359	..
32,450	3,300	685	..	3,739	24,629	..	1,383	..	..

Table 16

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

Thousand metric tons

2021

Importers	Exporters							
	World	Angola	Brazil	Canada	Iraq	Kazakhstan	Kuwait	Libya
Australia	11,089	..	..	..	..	..	..	314
Bahrain	9,002	..	..	..	..	..	..	..
Belarus	15,972	..	..	..	..	..	..	..
Belgium	28,686	..	..	541	1,193	3,900	..	189
Brazil	7,105	..	..	..	685	..	..	..
Canada	32,806	..	..	..	..	..	..	..
Chile	7,914	985	3,913	401	..	..	..	..
China	512,922	39,155	30,301	199	54,079	4,493	30,163	6,138
Finland	7,820	..	..	..	..	..	..	..
France	33,832	404	138	381	2,395	4,514	..	3,371
Germany	81,296	..	161	197	2,399	8,000	..	6,952
Greece	23,407	..	..	..	10,370	3,312	..	2,115
India	211,980	3,124	4,083	..	51,883	791	13,569	635
Indonesia	15,932	902	..	..	..	..	..	..
Italy	57,023	269	331	92	8,194	3,478	..	10,501
Japan	126,516	..	..	..	135	386	10,877	58
Korea, Republic of	129,409	..	3,157	784	8,140	2,568	14,599	..
Netherlands (Kingd. of the)	52,499	253	1,472	403	975	..	1	2,994
Philippines	4,056	..	..	..	108	..	..	..
Poland	23,620	..	..	..	175	438	..	..
Portugal	9,366	130	3,608	..	..	..	..	..
Singapore	47,601	848	2,409	7	760	..	524	333
South Africa	7,658	662	..	..	..	..	..	..
Spain	56,172	679	2,063	1,435	3,751	4,201	..	6,270
Sweden	17,953	..	231	..	..	..	..	559
Thailand	44,482	2,924	..	..	..	..	504	2,284
Türkiye	31,418	..	..	..	13,276	4,519	..	1,960
United Kingdom	36,357	..	71	695	..	..	..	2,840
United States	302,361	1,575	5,109	*152,741	7,481	912	1,026	4,418

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

Thousand metric tons

2021

Exporters									
Mexico	Nigeria	Norway	Oman	Russian Federation	Saudi Arabia	United Arab Emirates	United Kingdom	United States	Venezuela (Bolivar. Rep.)
..	275	..	..	151	..	1,193	..	960	..
..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..
..	860	5,012	..	8,382	2,319	..	2,833	2,569	..
..	1,181	..	..	42	*2,558	..	..	2,638	..
..	2,982	137	..	..	3,496	..	..	24,830	..
..	122	..	..	..	..	..	..	751	..
265	2,127	11,866	*30,776	79,642	87,568	*10,087	4,678	12,893	..
..	..	1,151	..	6,491	..	..	..	95	..
..	3,881	2,327	..	2,995	2,617	..	1,134	4,424	..
..	2,554	7,815	..	27,741	1,249	..	7,592	10,235	..
..	162	1,016	..	3,063	1,110	..	..	..	..
7,844	*4,225	1,866	5,560	4,543	34,256	23,018	..	20,733	..
..	3,917	..	..	..	4,420	35	..	..	..
..	3,123	2,423	..	5,758	5,530	..	845	1,872	..
309	..	..	866	4,637	47,711	46,357	..	191	..
7,381	994	2,308	892	7,293	39,111	7,464	2,522	16,101	..
31	3,150	5,973	..	16,826	2,143	..	6,439	6,891	..
..	..	..	159	..	3,315	..	..	..	..
..	1,658	1,204	..	14,983	4,726	..	324	81	..
..	2,046	470	..	..	245	..	..	946	..
..	1,774	64	243	615	4,701	13,235	..	7,043	..
..	*2,265	51	..	..	4,441	130	..	108	..
7,648	10,275	1,600	..	2,569	3,942	..	502	4,096	..
..	805	12,900	..	1,565	..	..	452	1,289	..
..	1,306	..	192	1,780	9,517	13,563	..	1,818	..
..	1,114	1,741	..	5,422	1,676	..	..	..	..
..	2,443	13,049	..	2,810	78	..	..	10,980	..
28,748	5,326	2,386	..	9,812	17,577	..	2,020	..	..

Table 17

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 46: Refinery distillation capacity, throughput and output by region, 2021

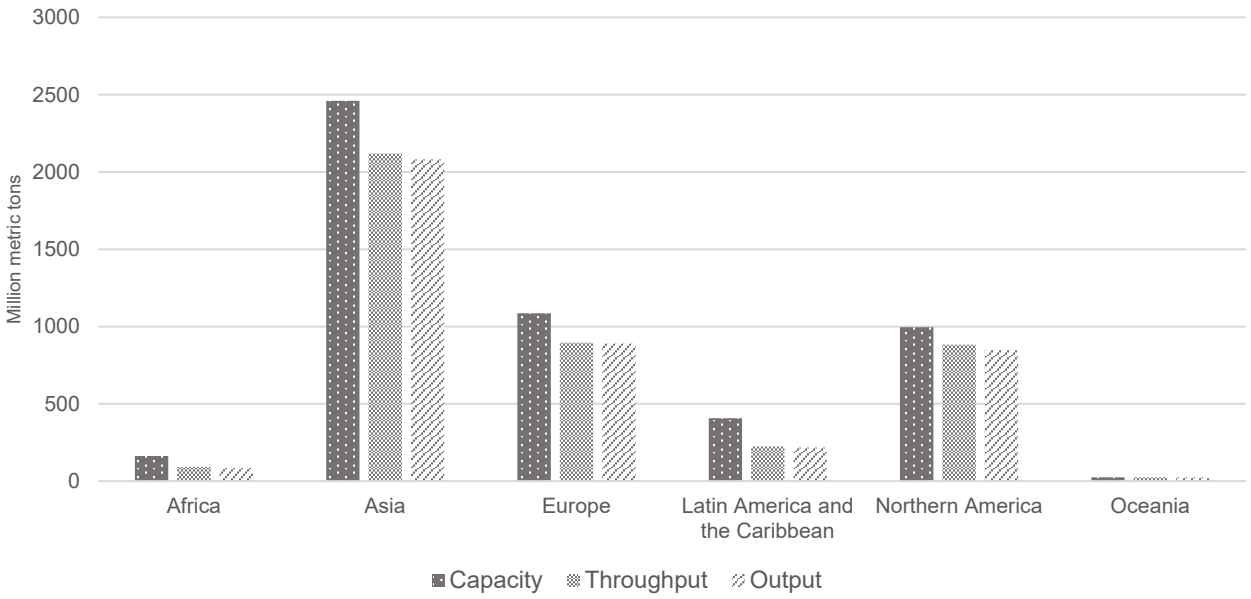


Figure 47: Total refinery distillation capacity by region, 1990-2021

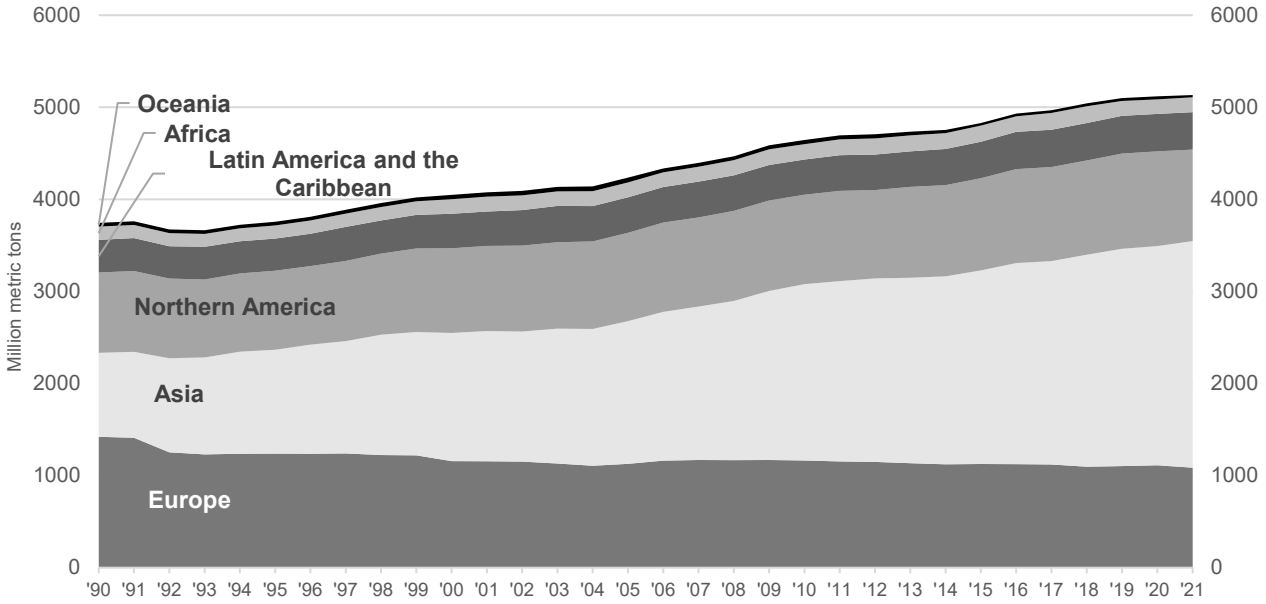


Table 17

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
World	**2018**	**5,042,135**	**4,390,624**	**4,312,782**
	2019	**5,099,459**	**4,384,918**	**4,303,838**
	2020	**5,118,262**	**4,036,844**	**3,964,537**
	2021	**5,135,282**	**4,235,377**	**4,141,884**
Africa	**2018**	**182,182**	**103,565**	**99,299**
	2019	**161,752**	**99,842**	**97,529**
	2020	**158,390**	**92,004**	**87,665**
	2021	**162,150**	**90,768**	**82,758**
Algeria	2018	32,858	30,784	29,933
	2019	32,858	28,628	28,256
	2020	32,858	28,651	27,815
	2021	33,466	29,286	27,985
Angola	2018	4,005	1,852	1,897
	2019	4,005	2,520	2,563
	2020	4,005	2,286	1,995
	2021	4,005	1,985	1,859
Cameroon	2018	2,100	1,346	1,191
	2019	2,100	696	616
	2020	0	..	..
	2021	0	..	..
Chad	2018	*998	700	*656
	2019	*998	700	*680
	2020	*998	*730	*705
	2021	*998	*800	*773
Congo	2018	1,047	851	725
	2019	1,047	860	735
	2020	1,047	831	713
	2021	1,047	856	738
Côte d'Ivoire	2018	*3,740	3,433	3,366
	2019	*3,740	3,738	3,711
	2020	3,800	3,427	3,329
	2021	*4,500	4,339	4,111
Egypt	2018	38,040	26,328	26,083
	2019	39,133	28,489	28,310
	2020	39,133	31,448	29,692
	2021	39,143	31,729	27,332
Gabon	2018	*1,197	699	671
	2019	1,197	595	619
	2020	1,247	831	818
	2021	1,247	957	932
Ghana	2018	*2,244	405	310
	2019	2,244	619	624
	2020	2,244	506	496
	2021	2,244	237	285
Libya	2018	18,953	5,647	5,598
	2019	*18,953	4,106	4,020
	2020	*18,953	2,900	2,839
	2021	*18,953	3,852	3,772
Morocco	2018	7,725	..	..
	2019	7,716	..	..
	2020	7,716	..	..
	2021	7,716	..	..

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Niger	2018	*1,200	818	763
	2019	*1,200	755	634
	2020	*1,200	851	767
	2021	*1,200	*878	722
Nigeria	2018	*22,195	2,744	2,389
	2019	10,743	588	528
	2020	10,471	0	0
	2021	*10,471	138	123
Senegal	2018	1,248	1,051	981
	2019	1,248	1,024	886
	2020	1,248	821	757
	2021	1,248	896	868
Sierra Leone	2018	*499	..	..
	2019	*499	..	..
	2020	*499	..	..
	2021	*499	..	..
South Africa	2018	*35,062	21,704	19,125
	2019	*25,000	22,141	21,120
	2020	*23,900	13,112	12,803
	2021	25,935	9,605	8,976
South Sudan	2018	..	..	..
	2019	..	..	..
	2020	..	..	..
	2021	407	113	110
Sudan	2018	6,074	3,495	3,943
	2019	*6,074	*3,540	*3,427
	2020	*6,074	4,124	3,483
	2021	*6,074	*3,429	*2,526
Tunisia	2018	1,800	1,062	1,074
	2019	1,800	142	141
	2020	*1,800	1,114	1,108
	2021	*1,800	1,610	1,593
Zambia	2018	1,197	647	595
	2019	1,197	700	658
	2020	*1,197	372	344
	2021	*1,197	57	54
Asia	**2018**	**2,301,869**	**2,063,300**	**2,031,119**
	2019	**2,360,010**	**2,092,386**	**2,049,689**
	2020	**2,381,331**	**2,004,148**	**1,971,785**
	2021	**2,460,093**	**2,120,107**	**2,082,119**
Afghanistan	2018	*185	*185	*176
	2019	*185	*119	*112
	2020	*185	*51	*46
	2021	*185	*55	*50
Azerbaijan	2018	*5,985	6,059	5,963
	2019	*5,985	6,162	6,045
	2020	*5,985	5,862	5,795
	2021	*5,985	6,595	6,572
Bahrain	2018	12,968	12,940	13,227
	2019	13,314	13,149	13,386
	2020	13,314	11,093	11,200
	2021	13,314	11,176	11,517

Table 17

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Bangladesh	2018	1,920	1,439	1,249
	2019	1,920	1,576	1,408
	2020	1,920	1,229	1,058
	2021	*1,920	1,757	1,545
Brunei Darussalam	2018	900	358	320
	2019	*8,734	1,879	1,330
	2020	*8,734	8,441	8,137
	2021	*8,734	8,282	7,889
China	2018	*835,611	713,743	711,792
	2019	*860,000	766,235	763,910
	2020	*860,000	812,744	808,477
	2021	*910,000	847,147	842,814
Georgia	2018	*5,440	24	22
	2019	*5,440	38	37
	2020	*5,440	37	37
	2021	*5,440	50	50
India	2018	249,366	267,061	273,711
	2019	249,866	*263,999	263,195
	2020	249,866	*230,431	231,656
	2021	251,216	*250,656	256,275
Indonesia	2018	58,210	42,375	38,887
	2019	58,309	*48,174	41,413
	2020	59,202	48,124	40,752
	2021	*59,202	47,831	40,672
Iran (Islamic Rep. of)	2018	104,314	88,521	87,365
	2019	109,776	89,575	87,054
	2020	109,902	85,736	84,376
	2021	109,825	88,911	87,887
Iraq	2018	40,648	30,129	28,267
	2019	41,087	31,956	29,738
	2020	55,700	27,182	25,820
	2021	55,661	25,861	25,367
Israel	2018	15,225	14,782	14,782
	2019	*15,225	15,268	15,268
	2020	*15,225	12,832	12,832
	2021	*15,225	13,497	13,411
Japan	2018	175,511	154,243	150,956
	2019	172,459	150,937	147,427
	2020	172,459	122,544	121,293
	2021	171,721	130,272	128,964
Jordan	2018	*4,509	2,356	2,264
	2019	*4,509	2,403	2,174
	2020	*4,509	1,820	1,780
	2021	*4,509	*1,960	1,911
Kazakhstan	2018	16,958	16,257	14,617
	2019	21,446	17,070	15,910
	2020	*21,446	15,801	14,925
	2021	21,446	17,591	17,257
Korea, Dem.Ppl's.Rep.	2018	3,494	532	515
	2019	3,494	532	515
	2020	*3,494	532	515
	2021	*3,494	532	515

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Korea, Republic of	2018	159,762	165,075	158,099
	2019	159,762	163,247	157,811
	2020	159,762	152,301	147,105
	2021	159,762	153,603	147,548
Kuwait	2018	36,708	35,101	32,450
	2019	39,900	31,400	31,327
	2020	36,835	28,919	27,479
	2021	39,891	34,366	33,571
Kyrgyzstan	2018	*800	549	544
	2019	800	322	318
	2020	800	180	162
	2021	800	283	269
Malaysia	2018	26,862	24,727	24,093
	2019	26,862	24,427	21,227
	2020	26,862	22,266	21,710
	2021	26,862	23,123	20,591
Myanmar	2018	2,545	258	247
	2019	*2,545	213	207
	2020	2,545	238	237
	2021	2,545	183	185
Oman	2018	15,112	12,910	12,141
	2019	*15,112	13,028	12,031
	2020	*15,112	11,309	10,451
	2021	*15,162	12,741	11,511
Other Asia	2018	56,898	51,678	51,947
	2019	56,898	51,734	51,450
	2020	54,946	42,284	43,288
	2021	54,946	44,738	46,493
Pakistan	2018	19,370	13,856	12,617
	2019	19,370	*10,573	10,044
	2020	20,400	11,934	11,566
	2021	20,242	11,993	11,401
Philippines	2018	*13,766	11,743	11,110
	2019	*13,766	8,129	7,735
	2020	*13,766	4,729	4,525
	2021	*13,766	3,933	3,743
Qatar	2018	21,446	15,947	15,867
	2019	21,446	16,239	16,047
	2020	21,446	14,863	14,572
	2021	21,446	17,292	17,176
Saudi Arabia	2018	140,960	149,099	145,748
	2019	144,404	134,764	129,546
	2020	146,350	115,951	112,331
	2021	165,895	149,511	138,210
Singapore	2018	67,057	53,541	50,846
	2019	67,057	50,147	49,843
	2020	67,057	42,758	41,391
	2021	72,818	43,143	41,906
Sri Lanka	2018	2,494	1,703	1,629
	2019	2,494	1,865	1,825
	2020	2,494	1,715	1,669
	2021	*2,494	1,272	1,219

Table 17

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Syrian Arab Republic	2018	11,963	6,859	6,779
	2019	11,963	6,158	6,087
	2020	11,963	6,421	6,346
	2021	11,975	6,209	6,136
Tajikistan	2018	*150	45	46
	2019	150	33	30
	2020	150	35	16
	2021	150	28	22
Thailand	2018	61,571	62,698	61,340
	2019	61,571	56,796	56,403
	2020	62,070	55,643	57,279
	2021	62,070	49,570	49,240
Türkiye	2018	*33,067	28,498	28,227
	2019	*44,067	37,430	37,005
	2020	*44,067	35,657	35,315
	2021	*44,067	38,095	37,795
Turkmenistan	2018	13,017	8,921	8,564
	2019	13,017	8,783	8,431
	2020	*13,017	8,493	8,153
	2021	*13,017	8,451	8,113
United Arab Emirates	2018	56,210	51,926	48,737
	2019	56,210	48,511	45,284
	2020	63,441	43,633	40,054
	2021	63,441	49,145	45,666
Uzbekistan	2018	5,420	4,207	3,847
	2019	5,420	3,808	3,611
	2020	5,420	3,616	3,368
	2021	5,420	*3,854	3,654
Viet Nam	2018	16,484	11,047	10,301
	2019	*16,484	13,938	12,815
	2020	*16,484	15,508	14,888
	2021	*16,484	15,317	13,938
Yemen	2018	8,963	1,910	1,826
	2019	8,963	1,769	1,690
	2020	8,963	1,235	1,180
	2021	*8,963	1,082	1,034
Europe	**2018**	**1,096,597**	**974,157**	**966,159**
	2019	**1,102,318**	**961,128**	**962,477**
	2020	**1,110,600**	**866,507**	**865,067**
	2021	**1,087,918**	**894,665**	**889,742**
Albania	2018	1,494	298	291
	2019	1,494	335	323
	2020	1,494	134	131
	2021	494	165	158
Austria	2018	9,576	9,281	9,165
	2019	9,576	9,642	9,530
	2020	9,576	8,604	8,438
	2021	9,576	8,522	8,328
Belarus	2018	27,082	19,026	18,752
	2019	27,082	17,854	17,607
	2020	*24,000	16,296	16,083
	2021	*22,444	16,296	16,083

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Belgium	2018	38,703	34,344	34,070
	2019	38,703	35,478	35,152
	2020	38,703	27,659	27,511
	2021	33,367	30,916	30,722
Bosnia and Herzegovina	2018	*11,970	697	704
	2019	*11,970	83	74
	2020	*11,970	13	13
	2021	*11,970	14	13
Bulgaria	2018	*9,726	6,486	6,189
	2019	*9,726	7,347	6,968
	2020	*9,726	5,315	5,061
	2021	*9,776	4,634	4,437
Croatia	2018	9,000	3,979	3,929
	2019	8,300	2,933	2,908
	2020	8,300	2,615	2,560
	2021	8,300	2,455	2,428
Czechia	2018	*9,676	7,864	7,848
	2019	*9,676	8,161	8,089
	2020	8,728	6,361	6,341
	2021	8,728	7,425	7,399
Denmark	2018	*9,027	9,114	9,095
	2019	*9,027	8,653	8,635
	2020	*8,900	8,193	8,176
	2021	*8,778	8,204	8,177
Finland	2018	13,017	14,877	14,788
	2019	13,017	14,927	14,714
	2020	13,017	13,681	13,593
	2021	10,500	10,212	9,872
France	2018	70,124	56,115	55,639
	2019	70,124	51,216	50,842
	2020	70,124	37,187	36,911
	2021	70,124	36,561	36,175
Germany	2018	*104,400	99,453	97,088
	2019	*104,400	99,884	97,682
	2020	*104,400	95,400	93,170
	2021	*104,400	95,682	93,398
Greece	2018	*26,234	32,785	32,771
	2019	*26,234	30,138	30,133
	2020	*26,234	28,795	28,766
	2021	*26,234	30,547	30,538
Hungary	2018	8,229	7,737	7,658
	2019	8,229	7,476	7,398
	2020	8,229	7,363	7,292
	2021	8,227	7,294	7,222
Ireland	2018	3,741	3,061	3,057
	2019	3,741	2,767	2,742
	2020	3,741	2,892	2,892
	2021	3,741	3,058	3,057
Italy	2018	100,904	72,400	71,741
	2019	100,900	74,242	73,437
	2020	100,900	60,871	60,231
	2021	*100,900	69,343	68,804

Table 17

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Lithuania	2018	10,220	9,891	9,782
	2019	10,220	9,720	9,605
	2020	10,220	8,000	7,905
	2021	8,000	8,195	8,086
Netherlands (Kingd. of the)	2018	65,835	61,097	60,920
	2019	*64,374	62,099	61,855
	2020	61,300	55,646	55,352
	2021	61,746	59,524	58,943
North Macedonia	2018	2,494	..	..
	2019	2,494	..	..
	2020	2,494	..	..
	2021	*2,494	..	..
Norway	2018	*17,955	17,723	17,698
	2019	*17,955	16,094	15,865
	2020	*17,955	14,735	14,579
	2021	*11,269	13,846	13,826
Poland	2018	29,250	28,858	28,226
	2019	29,250	28,983	28,457
	2020	27,724	27,417	26,988
	2021	28,978	26,769	26,626
Portugal	2018	16,459	14,115	14,063
	2019	16,459	12,813	12,762
	2020	16,459	11,959	11,908
	2021	11,219	11,221	11,186
Republic of Moldova	2018	19	10	10
	2019	19	6	6
	2020	19	5	7
	2021	*19	2	2
Romania	2018	*18,853	12,595	12,584
	2019	*18,853	13,337	13,327
	2020	*18,853	11,737	11,728
	2021	*18,853	11,391	11,118
Russian Federation	2018	*287,200	286,135	285,776
	2019	*287,200	286,916	297,661
	2020	*304,239	274,181	280,926
	2021	*304,239	286,198	290,268
Serbia	2018	*10,715	3,880	3,858
	2019	*10,715	3,514	3,495
	2020	*10,715	3,626	3,607
	2021	*10,715	3,938	3,915
Slovakia	2018	*5,736	5,950	5,930
	2019	*5,736	5,602	5,580
	2020	5,736	6,069	6,045
	2021	*5,736	6,064	6,034
Slovenia	2018	673	..	..
	2019	673	..	..
	2020	673	..	..
	2021	673	..	..
Spain	2018	71,197	68,717	67,599
	2019	*79,083	66,539	65,221
	2020	*79,083	56,618	55,673
	2021	*79,332	59,047	58,057

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Sweden	2018	*21,796	21,994	21,649
	2019	*21,796	18,933	18,078
	2020	*21,796	19,963	19,720
	2021	*21,796	21,549	21,411
Switzerland	2018	3,392	3,070	3,069
	2019	*3,392	2,781	2,763
	2020	*3,392	2,864	2,881
	2021	*3,392	2,353	2,372
Ukraine	2018	*19,600	3,890	4,008
	2019	*19,600	3,707	*2,843
	2020	*19,600	4,064	*2,703
	2021	*19,600	4,441	*2,926
United Kingdom	2018	*62,300	58,715	58,205
	2019	*62,300	58,949	58,726
	2020	*62,300	48,245	47,876
	2021	*62,300	48,800	48,162
Latin America & Carib.	**2018**	**407,855**	**246,572**	**241,926**
	2019	**409,172**	**232,427**	**224,514**
	2020	**406,419**	**209,884**	**202,909**
	2021	**406,068**	**223,811**	**216,793**
Argentina	2018	31,621	24,082	24,053
	2019	31,621	24,379	24,127
	2020	31,621	21,434	21,892
	2021	31,621	24,202	22,772
Aruba	2018	*11,463	..	..
	2019	*11,463	..	..
	2020	*11,463	..	..
	2021	*11,463	..	..
Bolivia (Plur. State of)	2018	3,394	2,551	2,326
	2019	3,394	2,223	2,020
	2020	3,341	2,089	1,964
	2021	3,341	2,094	1,980
Brazil	2018	123,122	90,953	91,463
	2019	123,396	91,799	91,193
	2020	123,309	96,861	94,945
	2021	*123,309	96,598	95,718
Chile	2018	*11,471	10,307	9,727
	2019	11,521	10,978	10,245
	2020	11,521	8,478	8,507
	2021	11,169	9,711	9,416
Colombia	2018	21,220	19,923	19,408
	2019	21,496	19,840	19,254
	2020	18,883	18,099	15,588
	2021	18,883	21,209	19,754
Cuba	2018	6,135	*2,888	2,751
	2019	*6,135	*1,791	1,701
	2020	*6,135	*2,160	2,052
	2021	*6,135	*1,538	1,461
Curaçao	2018	*16,708	3,433	3,060
	2019	*16,708	0	0
	2020	*16,708	..	..
	2021	*16,708	..	..

Table 17

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Dominican Republic	2018	1,721	1,279	1,208
	2019	2,486	1,283	1,156
	2020	2,486	498	475
	2021	2,486	1,248	977
Ecuador	2018	8,865	8,571	8,136
	2019	8,865	7,794	7,158
	2020	8,865	6,410	5,949
	2021	8,865	7,912	7,400
Guatemala	2018	*249	156	147
	2019	*250	146	146
	2020	*250	110	110
	2021	*250	132	132
Jamaica	2018	1,796	1,035	1,032
	2019	1,747	1,339	1,291
	2020	1,747	1,108	1,167
	2021	*1,747	1,149	1,011
Mexico	2018	81,796	34,035	33,417
	2019	81,796	33,668	32,418
	2020	81,796	33,103	32,360
	2021	81,796	39,218	38,144
Nicaragua	2018	998	*678	639
	2019	998	547	518
	2020	998	546	516
	2021	998	708	670
Paraguay	2018	370	..	..
	2019	370	..	..
	2020	370	..	..
	2021	370	..	..
Peru	2018	10,468	9,285	8,012
	2019	10,468	8,869	7,581
	2020	10,468	4,686	4,660
	2021	10,468	5,652	5,449
Suriname	2018	748	725	671
	2019	748	690	637
	2020	748	656	618
	2021	748	733	686
Trinidad and Tobago	2018	*8,379	5,373	5,032
	2019	*8,379	..	..
	2020	*8,379	..	..
	2021	*8,379	..	..
Uruguay	2018	2,494	2,165	2,073
	2019	2,494	2,054	1,991
	2020	2,494	1,897	1,845
	2021	2,494	2,096	2,041
Venezuela (Bolivar. Rep.)	2018	64,838	29,134	28,771
	2019	64,838	25,026	23,076
	2020	64,838	11,748	10,262
	2021	64,838	9,612	9,182
Northern America	**2018**	**1,022,948**	**972,174**	**945,712**
	2019	**1,035,189**	**967,859**	**938,811**
	2020	**1,029,476**	**836,697**	**809,904**
	2021	**995,212**	**882,232**	**847,312**

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Canada	2018	95,342	95,716	89,859
	2019	97,134	111,425	106,285
	2020	98,703	100,044	95,557
	2021	92,070	103,663	98,359
United States	2018	927,606	876,458	855,853
	2019	938,055	856,434	832,525
	2020	930,773	736,653	714,347
	2021	903,142	778,570	748,953
Oceania	**2018**	**30,683**	**30,857**	**28,567**
	2019	**31,017**	**31,276**	**30,818**
	2020	**32,045**	**27,603**	**27,207**
	2021	**23,841**	**23,794**	**23,160**
Australia	2018	22,354	24,065	22,070
	2019	22,688	24,000	23,680
	2020	23,711	21,495	21,217
	2021	15,508	17,906	17,476
New Zealand	2018	6,733	5,532	5,330
	2019	6,733	5,956	6,053
	2020	6,738	4,637	4,637
	2021	6,738	4,415	4,269
Papua New Guinea	2018	*1,596	1,260	1,167
	2019	*1,596	1,320	1,085
	2020	*1,596	1,472	1,352
	2021	*1,596	*1,474	*1,415

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 48: Production of LPG by region, 1990-2021

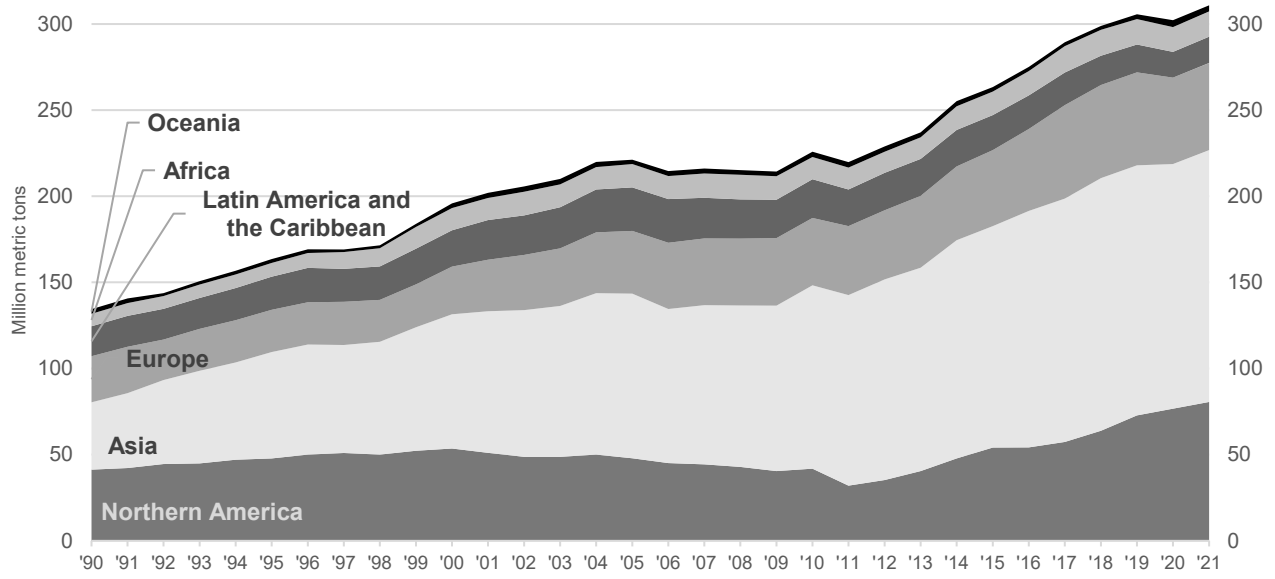


Figure 49: Major LPG producing countries, 2021

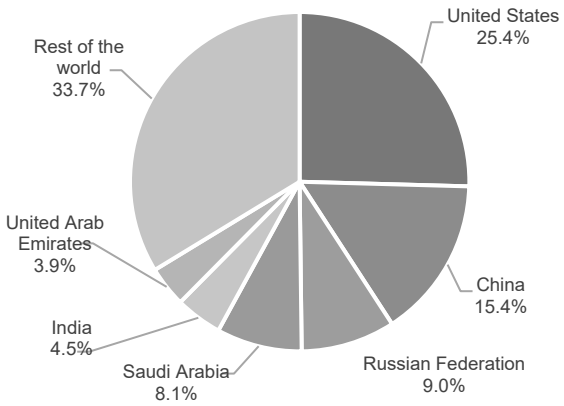


Figure 50: Major LPG consuming countries, 2021

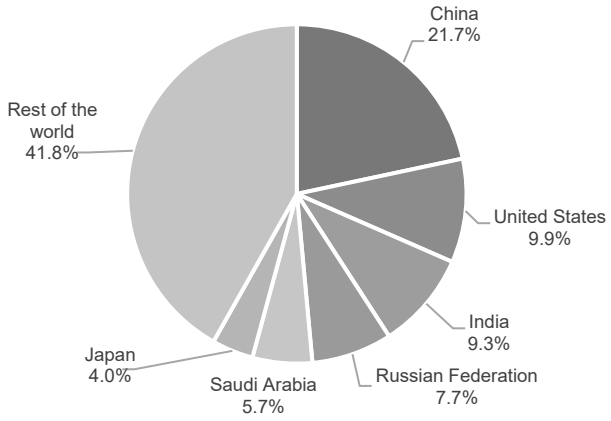


Table 18

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	**2018**	**298,844**	**121,753**	**111,739**	**31**	**308,827**	**40**
	2019	**305,657**	**128,216**	**113,609**	**1,695**	**318,569**	**41**
	2020	**302,144**	**127,276**	**116,103**	**-427**	**313,745**	**40**
	2021	**310,882**	**134,767**	**118,392**	**-851**	**328,109**	**41**
Africa	**2018**	**15,119**	**8,036**	**9,449**	**-207**	**13,914**	**11**
	2019	**14,762**	**8,343**	**8,851**	**73**	**14,181**	**11**
	2020	**14,403**	**8,104**	**8,262**	**267**	**13,978**	**10**
	2021	**14,638**	**8,580**	**8,040**	**362**	**14,816**	**11**
Algeria	2018	8,972	..	6,617	27	2,328	56
	2019	8,917	..	6,260	-17	2,674	63
	2020	8,413	..	5,574	-33	2,872	66
	2021	8,990	..	5,896	24	3,070	69
Angola	2018	2,093	336	2,124	*-227	532	17
	2019	2,387	429	1,895	*421	499	15
	2020	2,362	0	2,042	291	28	1
	2021	2,034	0	1,621	332	81	2
Benin	2018	..	50	..	1	48	4
	2019	..	24	..	-1	24	2
	2020	..	23	..	0	23	2
	2021	..	92	..	61	31	2
Botswana	2018	..	12	..	..	12	5
	2019	..	12	..	..	12	5
	2020	..	11	..	..	11	4
	2021	..	13	..	..	13	5
Burkina Faso	2018	..	98	..	-1	99	5
	2019	..	103	..	-1	104	5
	2020	..	122	..	*7	115	5
	2021	..	141	..	*8	133	6
Burundi	2018	..	0	..	..	0	0
	2019	..	0	..	..	0	0
	2020	..	1	..	..	1	0
	2021	..	0	..	..	0	0
Cabo Verde	2018	..	14	..	0	13	23
	2019	..	14	..	..	14	24
	2020	..	13	..	..	13	22
	2021	..	*13	..	..	*13	*22
Cameroon	2018	26	94	..	..	120	5
	2019	30	88	..	..	118	5
	2020	25	95	..	..	120	5
	2021	35	89	..	..	124	5
Central African Rep.	2018	..	2	..	..	2	0
	2019	..	2	..	..	2	0
	2020	..	*2	..	..	*2	0
	2021	..	*2	..	..	*2	0
Chad	2018	*32	*6	..	..	*38	*2
	2019	*35	..	..	..	*35	*2
	2020	*42	..	..	..	*42	*3
	2021	*46	..	..	..	*46	*3
Comoros	2018	..	*1	..	..	*1	*2
	2019	..	*2	..	..	*2	*2
	2020	..	*2	..	..	*2	*2
	2021	..	*2	..	..	*2	*2

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	2018	8	..	..	..	8	2
	2019	8	..	..	..	8	1
	2020	8	..	..	..	8	1
	2021	8	..	..	..	8	1
Côte d'Ivoire	2018	23	341	1	..	363	14
	2019	28	385	20	..	393	15
	2020	28	419	75	..	372	14
	2021	56	505	60	..	501	18
Djibouti	2018	..	*15	..	..	*15	*14
	2019	..	*15	..	..	*15	*14
	2020	..	13	..	..	13	11
	2021	..	*13	..	..	*13	*12
Egypt	2018	1,890	2,327	..	0	4,217	41
	2019	1,764	2,229	..	..	3,993	38
	2020	1,844	1,946	..	..	3,790	35
	2021	1,794	2,068	..	..	3,861	35
Equatorial Guinea	2018	606	..	*584	..	22	15
	2019	528	..	*506	..	22	14
	2020	478	..	*456	..	22	14
	2021	376	..	*353	..	23	14
Eritrea	2018	..	6	..	..	6	2
	2019	..	6	..	..	6	2
	2020	..	6	..	..	6	2
	2021	..	6	..	..	6	2
Eswatini	2018	..	4	..	..	4	3
	2019	..	4	..	..	4	3
	2020	..	*4	..	..	*4	*3
	2021	..	*4	..	..	*4	*3
Ethiopia	2018	..	6	..	..	6	0
	2019	..	6	..	..	6	0
	2020	..	8	..	..	8	0
	2021	..	8	..	..	8	0
Gabon	2018	5	72	..	..	77	35
	2019	5	74	..	..	79	35
	2020	10	48	..	..	58	25
	2021	11	37	..	..	48	21
Gambia	2018	..	*2	..	..	*2	*1
	2019	..	*2	..	..	*2	*1
	2020	..	*2	..	..	*2	*1
	2021	..	*2	..	..	*2	*1
Ghana	2018	88	315	5	..	398	13
	2019	70	275	1	-4	348	11
	2020	85	262	3	3	341	11
	2021	95	263	0	6	351	11
Guinea-Bissau	2018	..	*3	..	..	*3	*2
	2019	..	*3	..	..	*3	*2
	2020	..	*3	..	..	*3	*2
	2021	..	*3	..	..	*3	*1
Kenya	2018	..	222	..	..	222	4
	2019	..	304	3	..	301	6
	2020	..	321	1	..	320	6
	2021	..	371	..	..	371	7

Table 18

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	2018	..	10	..	..	10	5
	2019	..	14	..	..	14	6
	2020	..	14	..	..	14	6
	2021	..	14	..	..	14	6
Liberia	2018	..	*2	..	..	*2	0
	2019	..	*2	..	..	*2	0
	2020	..	*2	..	..	*2	0
	2021	..	*2	..	..	*2	0
Libya	2018	327	..	46	..	281	43
	2019	307	..	38	..	269	41
	2020	299	..	27	..	272	41
	2021	310	..	35	..	275	41
Madagascar	2018	..	14	0	0	14	1
	2019	..	17	0	2	15	1
	2020	..	11	0	*1	10	0
	2021	..	17	..	*6	12	0
Malawi	2018	..	*3	..	..	*3	0
	2019	..	*3	..	..	*3	0
	2020	..	1	..	..	1	0
	2021	..	2	..	..	2	0
Mali	2018	..	16	..	..	16	1
	2019	..	14	..	..	14	1
	2020	..	17	..	..	17	1
	2021	..	*21	..	..	*21	*1
Mauritania	2018	..	58	..	*-3	61	14
	2019	..	85	..	*32	53	12
	2020	..	70	..	*12	59	13
	2021	..	*78	..	*17	*61	*13
Mauritius	2018	..	169	..	91	78	60
	2019	..	175	62	29	84	65
	2020	..	68	..	-8	76	59
	2021	..	77	..	-5	82	63
Morocco	2018	..	2,592	..	-13	2,605	71
	2019	..	2,729	..	-27	2,756	75
	2020	..	2,821	..	-10	2,831	76
	2021	..	2,796	..	-102	2,898	77
Mozambique	2018	..	32	..	..	32	1
	2019	..	37	..	..	37	1
	2020	..	28	..	..	28	1
	2021	..	53	..	..	53	2
Namibia	2018	..	55	..	..	55	23
	2019	..	49	..	..	49	20
	2020	..	20	..	..	20	8
	2021	..	14	..	..	14	6
Niger	2018	53	1	16	..	38	2
	2019	60	0	..	..	61	3
	2020	60	5	1	2	63	3
	2021	55	*4	..	..	59	2
Nigeria	2018	48	57	..	-81	187	1
	2019	3	..	..	-362	365	2
	2020	136	564	..	5	695	3
	2021	406	416	..	14	807	4

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	2018	..	19	..	..	19	2
	2019	..	25	..	..	25	2
	2020	..	33	..	..	33	3
	2021	..	30	..	..	30	2
Sao Tome and Principe	2018	..	0	..	..	0	*1
	2019	..	0	..	..	0	*1
	2020	..	0	..	..	0	*1
	2021	..	0	..	..	0	*1
Senegal	2018	3	138	..	0	141	9
	2019	3	176	7	0	172	11
	2020	3	188	7	-1	185	11
	2021	3	188	..	..	191	11
Seychelles	2018	..	4	..	..	4	35
	2019	..	4	..	..	4	38
	2020	..	*4	..	..	*4	*38
	2021	..	*4	..	..	*4	*38
Sierra Leone	2018	..	..	..	..	..	..
	2019	..	..	..	..	..	..
	2020	..	..	..	..	..	..
	2021	..	5	..	..	5	1
Somalia	2018	..	*6	..	..	*6	0
	2019	..	*6	..	..	*6	0
	2020	..	*6	..	..	*6	0
	2021	..	*6	..	..	*6	0
South Africa	2018	246	114	56	..	304	5
	2019	221	86	60	..	247	4
	2020	199	100	76	..	224	4
	2021	137	318	75	..	380	6
South Sudan	2018	..	3	..	..	3	0
	2019	..	3	..	..	3	0
	2020	..	3	..	..	3	0
	2021	..	3	..	..	3	0
Sudan	2018	555	161	..	..	716	17
	2019	*281	207	..	..	*488	*11
	2020	293	99	..	..	392	9
	2021	*161	62	..	..	*223	*5
Togo	2018	..	12	..	-1	13	2
	2019	..	14	..	-1	15	2
	2020	..	15	..	-1	16	2
	2021	..	17	..	..	17	2
Tunisia	2018	136	443	..	..	579	49
	2019	105	495	..	1	599	50
	2020	113	472	..	-1	586	48
	2021	120	485	..	1	604	49
Uganda	2018	..	19	..	..	19	0
	2019	..	19	..	..	19	0
	2020	..	24	..	..	24	1
	2021	..	25	..	..	25	1
United Rep. of Tanzania	2018	..	143	..	..	143	2
	2019	..	166	..	..	166	3
	2020	..	195	..	..	195	3
	2021	..	248	..	..	248	4

Table 18

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
Zambia	2018	9	1	..	..	10	1
	2019	11	1	..	..	12	1
	2020	5	3	..	..	8	0
	2021	0	8	..	..	8	0
Zimbabwe	2018	..	39	..	..	39	3
	2019	..	37	..	..	37	2
	2020	..	39	..	..	39	2
	2021	..	57	..	..	57	4
Asia	**2018**	**146,656**	**70,220**	**42,864**	**66**	**173,946**	**38**
	2019	**145,121**	**74,767**	**39,752**	**571**	**179,566**	**39**
	2020	**141,971**	**75,681**	**37,001**	**160**	**180,491**	**39**
	2021	**146,179**	**79,915**	**35,910**	**432**	**189,753**	**40**
Afghanistan	2018	..	614	..	..	614	17
	2019	..	675	..	..	675	18
	2020	..	680	..	..	680	17
	2021	..	*620	..	..	*620	*15
Armenia	2018	..	16	..	..	16	6
	2019	..	30	..	..	30	11
	2020	..	52	..	..	52	18
	2021	..	74	0	..	74	26
Azerbaijan	2018	216	..	52	1	163	16
	2019	210	1	14	-10	207	20
	2020	201	16	13	-4	209	20
	2021	282	..	5	-2	279	27
Bahrain	2018	166	..	66	29	71	48
	2019	136	..	62	2	72	48
	2020	124	..	45	10	69	47
	2021	110	..	29	13	68	46
Bangladesh	2018	15	..	..	..	15	0
	2019	19	..	..	..	19	0
	2020	14	..	..	..	14	0
	2021	12	..	..	..	12	0
Bhutan	2018	..	4	..	..	4	6
	2019	..	9	..	..	9	12
	2020	..	8	..	..	8	11
	2021	..	8	..	..	8	11
Brunei Darussalam	2018	17	..	..	..	17	39
	2019	93	..	48	28	17	38
	2020	619	..	503	98	18	40
	2021	629	..	609	4	17	38
Cambodia	2018	..	270	..	..	270	17
	2019	..	341	..	..	341	21
	2020	..	322	..	..	322	20
	2021	..	322	..	..	322	19
China	2018	39,156	19,664	1,135	351	57,334	40
	2019	42,100	21,093	1,409	178	61,606	43
	2020	44,890	20,046	949	177	63,811	45
	2021	47,855	24,778	990	578	71,066	50
China, Hong Kong SAR	2018	..	373	..	34	339	45
	2019	..	347	..	-31	378	50
	2020	..	302	..	-19	321	43
	2021	..	308	..	-9	317	42

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
China, Macao SAR	2018	..	41	..	0	41	63
	2019	..	40	..	1	39	59
	2020	..	34	..	0	34	50
	2021	..	33	..	..	33	48
Cyprus	2018	..	54	..	0	54	44
	2019	..	62	..	0	62	50
	2020	..	54	..	1	53	43
	2021	..	53	..	-3	56	45
Georgia	2018	..	21	..	-1	21	6
	2019	..	28	0	0	28	7
	2020	..	29	..	0	29	8
	2021	..	36	..	0	36	10
India	2018	*12,786	13,235	417	..	25,604	19
	2019	12,823	14,809	463	..	27,169	20
	2020	12,072	16,476	452	..	28,096	20
	2021	13,887	17,120	513	..	30,494	22
Indonesia	2018	2,034	5,517	1	1	7,549	28
	2019	2,001	5,715	0	-1	7,716	29
	2020	1,874	6,106	0	-1	7,980	29
	2021	1,903	6,336	..	..	8,239	30
Iran (Islamic Rep. of)	2018	4,776	..	2,573	..	2,203	26
	2019	5,398	..	2,691	384	2,323	27
	2020	5,097	..	2,654	141	2,302	26
	2021	5,295	..	3,150	..	2,145	24
Iraq	2018	1,792	..	206	..	1,585	39
	2019	1,780	..	163	..	1,618	39
	2020	1,776	..	166	..	1,610	38
	2021	1,853	..	137	..	1,715	39
Israel	2018	422	202	164	1	458	54
	2019	425	218	137	-4	510	59
	2020	374	219	144	2	446	51
	2021	429	187	130	-2	488	55
Japan	2018	3,755	10,608	66	-84	14,381	114
	2019	3,401	10,440	55	142	13,644	108
	2020	2,846	10,099	56	-45	12,934	103
	2021	2,963	10,068	38	6	12,987	104
Jordan	2018	65	357	..	-6	428	41
	2019	68	432	..	22	478	45
	2020	54	409	..	..	463	42
	2021	61	377	..	..	438	39
Kazakhstan	2018	2,488	0	1,826	..	662	36
	2019	2,587	1	1,866	38	684	36
	2020	2,618	0	1,907	26	685	36
	2021	2,659	0	1,744	9	906	47
Korea, Republic of	2018	2,922	6,515	430	-203	9,210	178
	2019	2,882	7,872	477	64	10,213	197
	2020	2,476	8,349	491	82	10,252	198
	2021	2,532	8,029	268	-82	10,376	200
Kuwait	2018	7,042	..	5,013	..	2,029	470
	2019	6,036	..	4,731	..	1,305	294
	2020	6,402	..	4,557	..	1,845	423
	2021	5,257	..	4,710	..	547	129

Table 18

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
Kyrgyzstan	2018	55	36	1	4	86	14
	2019	15	37	1	1	50	8
	2020	7	44	..	12	39	6
	2021	..	107	..	11	96	15
Lao People's Dem. Rep.	2018	..	14	..	..	14	2
	2019	..	*14	..	..	*14	*2
	2020	..	*14	..	..	*14	*2
	2021	..	*14	..	..	*14	*2
Lebanon	2018	..	229	..	..	229	38
	2019	..	219	..	..	219	38
	2020	..	*209	..	..	*209	*37
	2021	..	*166	..	..	*166	*30
Malaysia	2018	2,732	491	419	-102	2,906	90
	2019	2,620	419	297	*-128	2,870	87
	2020	2,385	499	478	*-251	2,656	80
	2021	2,820	325	734	-88	2,500	74
Maldives	2018	..	15	..	..	15	31
	2019	..	17	..	..	17	33
	2020	..	13	..	..	13	25
	2021	..	17	..	..	17	32
Myanmar	2018	13	71	..	-1	84	2
	2019	13	18	..	..	31	1
	2020	7	71	..	..	78	1
	2021	6	90	..	..	96	2
Nepal	2018	..	398	..	..	398	14
	2019	..	416	..	..	416	14
	2020	..	443	..	..	443	15
	2021	..	497	..	..	497	17
Oman	2018	765	..	560	..	205	44
	2019	776	..	556	..	220	48
	2020	667	..	474	..	193	42
	2021	730	..	25	..	706	156
Other Asia	2018	1,257	1,936	89	56	3,048	128
	2019	1,166	1,940	36	-34	3,104	131
	2020	857	1,638	31	0	2,464	103
	2021	1,093	560	2	-40	1,691	71
Pakistan	2018	729	478	..	..	1,207	5
	2019	665	675	..	..	1,340	6
	2020	476	974	..	..	1,450	6
	2021	487	871	..	..	1,358	6
Philippines	2018	509	1,307	1	9	1,806	17
	2019	286	1,370	5	-4	1,655	15
	2020	152	1,469	0	-1	1,621	14
	2021	150	1,693	..	-9	1,852	16
Qatar	2018	10,814	..	9,824	..	990	358
	2019	8,305	..	7,310	..	995	354
	2020	7,285	..	6,257	..	1,029	373
	2021	7,127	..	6,094	..	1,032	384
Saudi Arabia	2018	29,620	..	9,180	..	20,440	584
	2019	28,179	..	8,802	*-5	19,382	541
	2020	26,409	..	7,432	15	18,962	527
	2021	25,319	..	6,634	*7	18,678	520

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
Singapore	2018	913	400	242	..	1,071	184
	2019	855	570	181	..	1,244	212
	2020	712	232	172	..	773	131
	2021	724	74	114	..	684	115
Sri Lanka	2018	22	413	..	-9	444	21
	2019	27	430	..	0	457	21
	2020	25	437	..	-11	473	22
	2021	17	422	..	-18	457	21
State of Palestine	2018	..	167	..	..	167	35
	2019	..	178	..	..	178	36
	2020	..	204	..	..	204	41
	2021	..	206	..	..	206	40
Syrian Arab Republic	2018	147	356	..	..	503	26
	2019	150	285	..	..	434	22
	2020	162	236	..	..	398	19
	2021	160	209	..	..	368	17
Tajikistan	2018	..	381	..	..	381	42
	2019	..	431	..	..	431	46
	2020	..	421	..	..	421	44
	2021	..	411	..	..	411	42
Thailand	2018	6,247	682	385	..	6,544	92
	2019	5,980	550	299	..	6,231	87
	2020	5,366	557	243	..	5,681	79
	2021	5,546	572	189	83	5,847	82
Timor-Leste	2018	..	1	..	..	1	1
	2019	..	1	..	..	1	1
	2020	..	1	..	..	1	1
	2021	..	1	..	..	1	1
Türkiye	2018	913	3,312	110	-14	4,129	50
	2019	1,082	3,108	101	-73	4,162	50
	2020	971	3,005	118	-70	3,927	47
	2021	1,014	3,104	217	-18	3,919	46
Turkmenistan	2018	1,028	..	..	..	1,028	169
	2019	1,192	..	..	..	1,192	194
	2020	1,154	..	..	..	1,154	185
	2021	1,164	..	..	..	1,164	184
United Arab Emirates	2018	10,716	..	9,833	..	883	97
	2019	11,691	26	9,774	..	1,942	211
	2020	11,961	26	9,621	..	2,366	255
	2021	12,022	26	9,287	..	2,761	295
Uzbekistan	2018	819	..	..	-1	819	25
	2019	830	..	..	-1	831	25
	2020	750	..	..	-1	752	22
	2021	804	..	..	-6	811	24
Viet Nam	2018	1,369	1,810	272	..	2,907	31
	2019	887	1,810	272	..	2,425	25
	2020	782	1,810	240	..	2,352	24
	2021	898	1,971	291	..	2,578	26
Yemen	2018	338	*232	..	..	570	19
	2019	443	*140	..	..	583	18
	2020	409	*179	..	..	588	18
	2021	372	*230	..	..	602	18

Table 18

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
Europe	**2018**	**54,023**	**24,651**	**20,548**	**40**	**58,086**	**78**
	2019	**54,026**	**24,499**	**19,372**	**-334**	**59,487**	**79**
	2020	**50,183**	**22,472**	**16,739**	**-142**	**56,058**	**75**
	2021	**50,620**	**23,313**	**16,913**	**-123**	**57,143**	**76**
Albania	2018	..	196	..	25	171	60
	2019	..	173	..	2	171	60
	2020	..	167	..	3	164	57
	2021	..	184	..	2	182	64
Andorra	2018	..	*2	..	..	*2	*31
	2019	..	*2	..	..	*2	*31
	2020	..	*2	..	..	*2	*24
	2021	..	*2	..	..	*2	*25
Austria	2018	111	62	86	-1	89	10
	2019	137	61	89	9	99	11
	2020	117	64	92	5	85	9
	2021	150	64	110	4	99	11
Belarus	2018	562	177	601	-1	139	14
	2019	390	90	344	2	134	14
	2020	399	18	281	1	135	14
	2021	399	18	281	..	136	14
Belgium	2018	829	2,128	672	9	2,275	199
	2019	1,069	2,109	696	9	2,474	215
	2020	1,036	2,090	763	8	2,356	204
	2021	1,061	2,242	921	5	2,376	205
Bosnia and Herzegovina	2018	19	72	..	..	91	27
	2019	1	80	..	-1	82	24
	2020	..	90	..	-1	91	27
	2021	..	93	..	-1	94	29
Bulgaria	2018	97	410	29	-2	479	67
	2019	131	367	44	-1	455	65
	2020	77	382	30	0	430	62
	2021	64	370	28	-1	407	59
Croatia	2018	254	41	159	-3	138	33
	2019	196	75	135	1	134	32
	2020	184	66	137	-2	115	28
	2021	185	82	145	1	122	30
Czechia	2018	356	231	134	..	453	43
	2019	400	210	145	..	465	44
	2020	312	184	125	-2	373	35
	2021	394	170	131	1	432	41
Denmark	2018	126	21	87	0	59	10
	2019	127	17	84	-1	61	11
	2020	113	12	66	3	57	10
	2021	92	22	51	-3	66	11
Estonia	2018	..	25	5	..	20	15
	2019	..	41	11	2	28	21
	2020	..	22	1	-4	25	18
	2021	..	19	..	..	19	14
Finland	2018	254	785	5	-53	1,087	197
	2019	289	824	23	-7	1,097	199
	2020	245	838	10	54	1,019	184
	2021	174	880	3	-17	1,068	193

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
France	2018	1,421	3,148	1,056	10	3,503	53
	2019	1,357	3,326	902	-14	3,795	57
	2020	886	3,015	875	-2	3,028	45
	2021	1,029	3,244	919	-8	3,362	50
Germany	2018	3,224	1,080	161	13	4,130	50
	2019	3,232	1,224	252	2	4,202	51
	2020	2,885	1,265	241	13	3,896	47
	2021	3,025	1,451	275	-5	4,206	50
Greece	2018	847	31	329	1	549	52
	2019	802	73	284	-3	593	56
	2020	780	62	324	6	513	49
	2021	860	50	332	2	576	55
Hungary	2018	185	446	87	-2	546	56
	2019	153	479	93	-4	543	56
	2020	144	453	84	-2	515	53
	2021	147	488	83	2	550	57
Iceland	2018	..	3	..	0	3	7
	2019	..	3	..	0	3	9
	2020	..	3	..	0	3	7
	2021	..	2	..	0	2	7
Ireland	2018	58	140	31	-1	167	35
	2019	45	139	21	-3	166	34
	2020	52	128	21	-7	166	34
	2021	42	145	20	6	162	32
Italy	2018	1,228	2,264	227	-36	3,301	55
	2019	1,269	2,422	244	41	3,407	57
	2020	1,290	2,057	263	-324	3,409	57
	2021	1,387	2,272	365	-14	3,307	56
Kosovo	2018	..	31	..	..	31	18
	2019	..	30	..	..	30	18
	2020	..	32	..	..	32	19
	2021	..	32	..	..	32	19
Latvia	2018	..	227	142	0	85	44
	2019	..	177	101	1	75	39
	2020	..	144	71	1	72	38
	2021	..	146	80	-2	68	36
Lithuania	2018	342	82	237	0	187	65
	2019	399	77	285	2	188	66
	2020	333	52	221	0	165	58
	2021	341	56	224	-1	173	62
Luxembourg	2018	..	8	0	..	8	13
	2019	..	10	0	..	9	15
	2020	..	7	0	..	7	12
	2021	..	10	0	..	10	16
Malta	2018	..	27	..	2	25	52
	2019	..	25	..	-1	27	53
	2020	..	25	..	1	24	46
	2021	..	23	..	0	24	45
Montenegro	2018	..	20	..	2	18	29
	2019	..	21	..	3	18	28
	2020	..	13	..	-5	17	27
	2021	..	16	..	-3	19	30

Table 18

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
Netherlands (Kingd. of the)	2018	1,481	3,953	2,167	29	3,238	187
	2019	1,562	3,308	2,099	-52	2,823	163
	2020	1,307	3,334	1,868	22	2,751	158
	2021	1,549	3,137	2,282	9	2,395	137
North Macedonia	2018	..	81	2	-1	80	38
	2019	..	81	2	-1	81	38
	2020	..	67	2	0	66	31
	2021	..	69	2	0	67	32
Norway	2018	6,902	283	6,353	35	797	150
	2019	6,394	228	5,913	-28	737	138
	2020	6,237	216	5,752	-33	734	136
	2021	5,571	209	5,326	42	413	76
Poland	2018	605	2,562	545	3	2,619	68
	2019	630	2,613	479	-1	2,765	72
	2020	657	2,145	355	-4	2,451	64
	2021	649	2,290	358	10	2,570	67
Portugal	2018	205	547	63	-8	697	68
	2019	165	752	82	-27	862	84
	2020	162	759	34	15	872	85
	2021	119	729	36	-15	827	80
Republic of Moldova	2018	..	72	0	1	71	23
	2019	..	66	..	..	66	21
	2020	..	63	..	-1	63	21
	2021	..	61	..	..	61	20
Romania	2018	624	226	324	2	524	27
	2019	625	186	312	-6	504	26
	2020	514	212	296	-4	434	22
	2021	491	234	273	3	449	23
Russian Federation	2018	28,730	99	4,945	-5	23,890	164
	2019	29,077	122	4,443	-188	24,945	171
	2020	27,624	116	3,110	..	24,630	169
	2021	27,921	94	2,776	..	25,239	174
Serbia	2018	83	120	51	4	148	20
	2019	94	105	32	-1	167	23
	2020	100	82	50	1	131	18
	2021	117	85	42	-2	162	22
Slovakia	2018	180	67	82	1	164	30
	2019	164	48	63	3	146	27
	2020	137	94	64	-1	168	31
	2021	129	47	9	1	166	30
Slovenia	2018	..	94	..	1	93	44
	2019	..	103	7	2	94	45
	2020	..	88	5	1	82	39
	2021	..	90	8	0	83	39
Spain	2018	1,311	1,366	474	55	2,148	46
	2019	1,167	1,242	553	-15	1,871	40
	2020	920	997	446	-12	1,483	31
	2021	1,240	723	514	21	1,427	30
Sweden	2018	499	1,121	575	-8	1,053	104
	2019	446	1,233	690	-14	1,003	98
	2020	401	1,110	674	116	722	70
	2021	626	1,055	809	-155	1,028	98

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
Switzerland	2018	133	63	21	0	175	21
	2019	108	81	20	0	169	20
	2020	97	69	10	0	156	18
	2021	70	91	0	-1	162	19
Ukraine	2018	397	1,317	24	-17	1,707	38
	2019	409	1,466	59	-35	1,851	42
	2020	305	1,562	3	-3	1,867	43
	2021	306	1,593	0	0	1,899	44
United Kingdom	2018	2,962	1,024	872	-11	3,125	47
	2019	3,188	813	865	-8	3,144	47
	2020	2,868	368	466	17	2,753	41
	2021	2,483	726	513	-3	2,700	40
Latin America & Carib.	**2018**	**16,977**	**12,713**	**2,501**	**52**	**27,137**	**42**
	2019	**16,119**	**14,261**	**2,433**	**-111**	**28,059**	**43**
	2020	**14,964**	**16,017**	**2,159**	**21**	**28,801**	**44**
	2021	**15,280**	**17,583**	**1,970**	**-124**	**31,017**	**47**
Anguilla	2018	..	5	..	*-4	9	573
	2019	..	8	..	*-1	9	572
	2020	..	6	..	*-3	8	520
	2021	..	8	..	0	8	527
Antigua and Barbuda	2018	..	*4	..	..	*4	*40
	2019	..	*4	..	..	*4	*40
	2020	..	*4	..	..	*4	*39
	2021	..	*4	..	..	*4	*39
Argentina	2018	2,668	..	1,133	-22	1,557	35
	2019	2,768	..	1,224	6	1,538	34
	2020	2,352	..	1,003	-4	1,353	30
	2021	2,648	..	907	10	1,731	38
Aruba	2018	..	*11	..	..	*11	*107
	2019	..	*11	..	..	*11	*102
	2020	..	*9	..	..	*9	*81
	2021	..	*9	..	..	*9	*88
Bahamas	2018	..	21	..	..	21	51
	2019	..	18	..	..	18	45
	2020	..	12	..	..	12	29
	2021	..	14	..	..	14	35
Barbados	2018	..	8	..	0	8	28
	2019	..	8	..	0	8	28
	2020	..	8	..	0	8	28
	2021	..	7	..	0	7	25
Belize	2018	1	27	..	..	28	73
	2019	1	26	..	..	27	70
	2020	1	26	..	..	27	68
	2021	*1	27	..	..	28	69
Bolivia (Plur. State of)	2018	553	..	102	0	451	39
	2019	580	..	126	0	453	38
	2020	540	..	102	0	439	37
	2021	612	..	135	0	478	40
Bonaire, St Eustatius, Saba	2018	..	*1	..	..	*1	*48
	2019	..	*1	..	..	*1	*50
	2020	..	*1	..	..	*1	*46
	2021	..	*1	..	..	*1	*41

Table 18

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
Brazil	2018	5,350	1,881	0	84	7,147	34
	2019	5,214	1,918	0	-17	7,149	34
	2020	5,264	1,973	0	-13	7,250	34
	2021	5,290	2,211	0	58	7,443	35
Cayman Islands	2018	..	4	..	..	4	63
	2019	..	8	..	..	8	126
	2020	..	4	..	..	4	61
	2021	..	4	..	..	4	62
Chile	2018	434	1,072	114	44	1,349	72
	2019	543	1,000	131	54	1,358	71
	2020	461	1,129	231	-12	1,371	71
	2021	489	1,257	221	35	1,490	76
Colombia	2018	613	91	0	..	703	14
	2019	650	108	0	..	758	15
	2020	749	9	..	..	758	15
	2021	853	16	..	..	869	17
Costa Rica	2018	..	167	..	-4	171	34
	2019	..	186	..	4	181	36
	2020	..	172	..	-2	173	34
	2021	..	198	..	3	196	38
Cuba	2018	30	135	..	..	165	15
	2019	22	119	..	..	141	12
	2020	39	112	..	..	151	13
	2021	28	152	..	..	180	16
Curaçao	2018	44	..	15	..	29	159
	2019	0	..	0	..	0	0
	2020	..	..	..	..	..	..
	2021	..	..	..	..	..	..
Dominica	2018	..	*3	..	..	*3	*42
	2019	..	*3	..	..	*3	*42
	2020	..	*2	..	..	*2	*33
	2021	..	*3	..	..	*3	*36
Dominican Republic	2018	14	1,012	..	3	1,023	95
	2019	27	1,010	..	4	1,033	95
	2020	17	900	..	4	913	83
	2021	35	978	..	-2	1,015	91
Ecuador	2018	245	957	..	0	1,202	71
	2019	179	1,043	..	-2	1,224	71
	2020	178	1,066	..	7	1,237	70
	2021	197	1,100	..	-6	1,303	73
El Salvador	2018	..	312	..	..	312	50
	2019	..	444	..	..	444	71
	2020	..	470	..	..	470	75
	2021	..	508	..	..	508	80
Falkland Is. (Malvinas)	2018	..	0	..	..	0	21
	2019	..	0	..	..	0	21
	2020	..	0	..	..	0	20
	2021	..	0	..	..	0	19
Grenada	2018	..	4	..	..	4	36
	2019	..	5	..	..	5	44
	2020	..	5	..	..	5	38
	2021	..	5	..	..	5	39

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
Guatemala	2018	..	544	154	-21	411	24
	2019	..	576	120	24	431	25
	2020	..	601	127	38	437	25
	2021	..	640	129	8	503	29
Guyana	2018	..	17	..	-2	19	24
	2019	..	20	..	0	20	25
	2020	..	20	..	-1	21	27
	2021	..	24	..	-1	25	32
Haiti	2018	..	18	..	..	18	2
	2019	..	24	..	..	24	2
	2020	..	26	..	..	26	2
	2021	..	31	..	..	31	3
Honduras	2018	..	653	414	11	227	23
	2019	..	682	385	-19	316	32
	2020	..	651	343	-1	309	31
	2021	..	721	340	20	361	35
Jamaica	2018	11	85	..	1	95	34
	2019	11	90	..	1	100	36
	2020	9	85	..	1	94	33
	2021	4	95	..	0	99	35
Mexico	2018	3,674	4,848	86	-35	8,471	68
	2019	3,269	6,132	21	24	9,356	75
	2020	3,045	7,865	25	-14	10,899	87
	2021	2,770	8,723	4	-12	11,501	91
Montserrat	2018	..	0	..	..	0	83
	2019	..	0	..	..	0	73
	2020	..	0	..	..	0	96
	2021	..	0	..	..	0	*102
Nicaragua	2018	17	108	..	..	125	19
	2019	21	103	..	1	123	18
	2020	16	118	..	-2	136	20
	2021	19	122	..	0	141	21
Panama	2018	..	204	0	-5	208	50
	2019	..	210	0	-7	216	51
	2020	..	220	0	27	194	45
	2021	..	212	0	-7	219	50
Paraguay	2018	..	90	..	4	87	13
	2019	..	92	..	4	88	13
	2020	..	87	..	0	87	13
	2021	..	84	..	2	83	12
Peru	2018	1,410	356	6	-138	1,899	59
	2019	1,476	341	0	-186	2,003	61
	2020	1,318	352	41	-3	1,632	49
	2021	1,360	363	..	-227	1,950	58
Sint Maarten (Dutch part)	2018	..	*2	..	..	*2	*45
	2019	..	*2	..	..	*2	*44
	2020	..	*2	..	..	*2	*44
	2021	..	*2	..	..	*2	*45
St. Kitts-Nevis	2018	..	*2	..	..	*2	*46
	2019	..	*2	..	..	*2	*46
	2020	..	*2	..	..	*2	*44
	2021	..	*2	..	..	*2	*42

Table 18

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
St. Lucia	2018	..	8	..	..	8	47
	2019	..	7	..	..	7	40
	2020	..	*7	..	..	*7	*41
	2021	..	*8	..	..	*8	*43
St. Vincent-Grenadines	2018	..	8	..	..	8	78
	2019	..	8	..	..	8	72
	2020	..	9	..	..	9	84
	2021	..	*4	..	..	*4	*37
Suriname	2018	..	27	..	1	26	43
	2019	..	24	..	0	23	39
	2020	..	23	..	1	22	37
	2021	..	22	..	0	22	36
Trinidad and Tobago	2018	494	..	362	133	-2	-1
	2019	436	..	377	..	59	39
	2020	360	..	283	..	77	51
	2021	303	..	231	..	72	47
Turks and Caicos Islands	2018	..	*5	..	..	*5	*121
	2019	..	*5	..	..	*5	*118
	2020	..	*5	..	..	*5	*113
	2021	..	*5	..	..	*5	*113
Uruguay	2018	106	24	..	2	128	37
	2019	102	25	1	-3	129	38
	2020	96	38	1	-1	134	39
	2021	111	23	3	-2	133	39
Venezuela (Bolivar. Rep.)	2018	1,313	..	115	..	1,197	40
	2019	820	..	48	..	772	27
	2020	516	..	4	..	513	18
	2021	559	..	..	..	559	20
Northern America	**2018**	**63,863**	**5,601**	**35,137**	**8**	**34,319**	**93**
	2019	**72,782**	**5,832**	**41,586**	**1,522**	**35,505**	**95**
	2020	**76,687**	**4,534**	**49,141**	**-743**	**32,822**	**88**
	2021	**80,561**	**4,953**	**52,978**	**-1,403**	**33,939**	**90**
Bermuda	2018	..	16	..	..	16	244
	2019	..	14	..	..	14	217
	2020	..	3	..	..	3	48
	2021	..	5	..	..	5	77
Canada	2018	1,362	200	120	-9	1,451	39
	2019	1,559	..	..	-22	1,581	42
	2020	1,406	..	..	3	1,403	37
	2021	1,478	..	..	4	1,474	39
Greenland	2018	..	0	..	..	0	1
	2019	..	0	..	..	0	1
	2020	..	0	..	..	0	1
	2021	..	0	..	..	0	1
United States	2018	62,501	5,385	35,017	17	32,852	99
	2019	71,223	5,818	41,586	1,544	33,910	101
	2020	75,281	4,530	49,141	-746	31,417	94
	2021	79,083	4,948	52,978	-1,407	32,461	96
Oceania	**2018**	**2,206**	**532**	**1,239**	**72**	**1,426**	**34**
	2019	**2,846**	**514**	**1,616**	**-26**	**1,770**	**41**
	2020	**3,937**	**468**	**2,801**	**10**	**1,594**	**36**
	2021	**3,605**	**423**	**2,582**	**5**	**1,441**	**32**

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
Australia	2018	2,005	425	1,234	71	1,125	45
	2019	2,654	409	1,616	-24	1,471	58
	2020	3,751	395	2,801	11	1,334	52
	2021	3,437	335	2,566	6	1,200	46
Fiji	2018	..	*35	*1	..	*34	*37
	2019	..	*32	..	..	*32	*35
	2020	..	*26	..	..	*26	*28
	2021	..	*29	..	..	*29	*32
French Polynesia	2018	..	11	..	0	11	37
	2019	..	9	..	0	9	31
	2020	..	10	..	1	9	31
	2021	..	9	..	-1	11	35
Kiribati	2018	..	0	..	..	0	*2
	2019	..	0	..	..	0	*2
	2020	..	0	..	..	0	*2
	2021	..	0	..	..	0	*2
Marshall Islands	2018	..	0	..	..	0	*4
	2019	..	0	..	..	0	*4
	2020	..	0	..	..	0	*5
	2021	..	0	..	..	0	*5
Nauru	2018	..	0	..	..	0	*1
	2019	..	0	..	..	0	*1
	2020	..	0	..	..	0	*1
	2021	..	0	..	..	0	*1
New Caledonia	2018	..	31	..	0	31	108
	2019	..	21	..	-2	22	78
	2020	..	14	..	0	14	49
	2021	..	7	..	0	7	24
New Zealand	2018	184	12	4	1	191	40
	2019	172	24	..	0	195	39
	2020	169	8	..	-1	178	35
	2021	151	27	16	0	162	32
Niue	2018	..	0	..	..	0	*19
	2019	..	0	..	..	0	*19
	2020	..	0	..	..	0	*18
	2021	..	0	..	..	0	*19
Northern Mariana Islands	2018	..	*5	..	..	*5	*99
	2019	..	*5	..	..	*5	*100
	2020	..	*5	..	..	*5	*101
	2021	..	*3	..	..	*3	*61
Papua New Guinea	2018	17	1	..	..	18	2
	2019	21	3	..	..	24	2
	2020	17	1	..	..	18	2
	2021	*17	*1	..	..	*18	*2
Samoa	2018	..	*6	..	0	*6	*29
	2019	..	*6	..	0	*6	*29
	2020	..	*5	..	0	*5	*25
	2021	..	*6	..	..	*6	*26
Tonga	2018	..	2	..	..	2	21
	2019	..	2	..	..	2	20
	2020	..	2	..	..	2	22
	2021	..	3	..	..	3	27

Table 18

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
Tuvalu	2018	..	0	..	..	0	*12
	2019	..	0	..	..	0	*11
	2020	..	0	..	..	0	*11
	2021	..	0	..	..	0	*11
Vanuatu	2018	..	*2	..	..	*2	*7
	2019	..	*2	..	..	*2	*7
	2020	..	*2	..	..	*2	*6
	2021	..	*2	..	..	*2	*6
Wallis and Futuna Is.	2018	..	0	..	..	0	*22
	2019	..	0	..	..	0	*22
	2020	..	0	..	..	0	*23
	2021	..	0	..	..	0	*23

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 51: Production of motor gasoline by region, 1990-2021

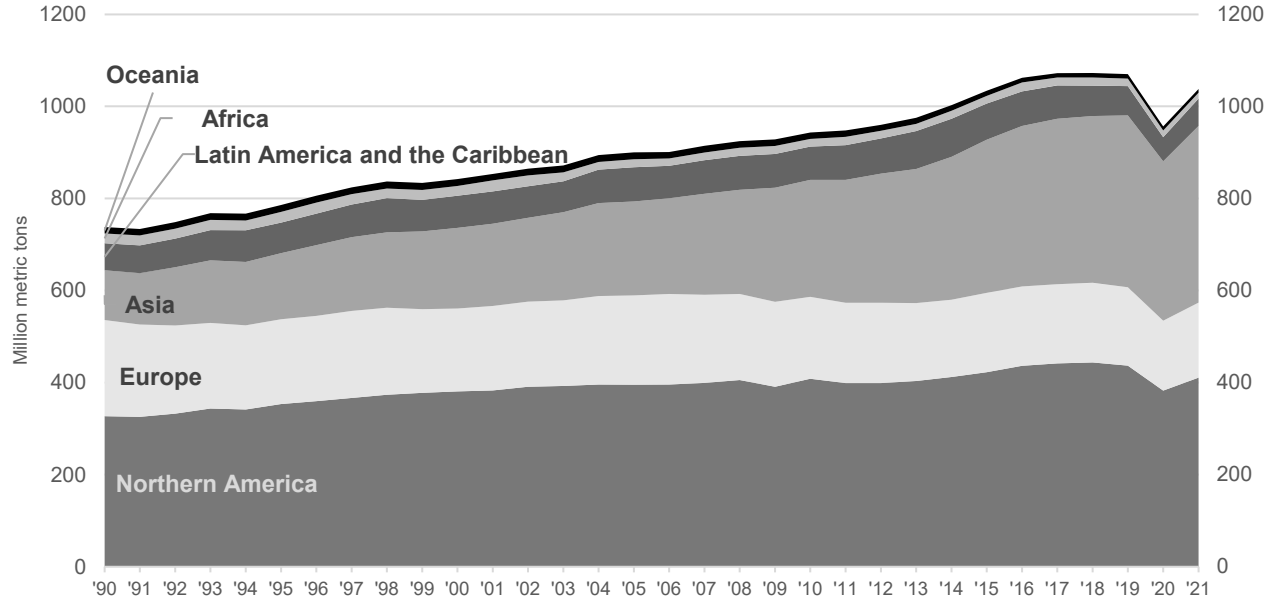


Figure 52: Major motor gasoline producing countries, 2021

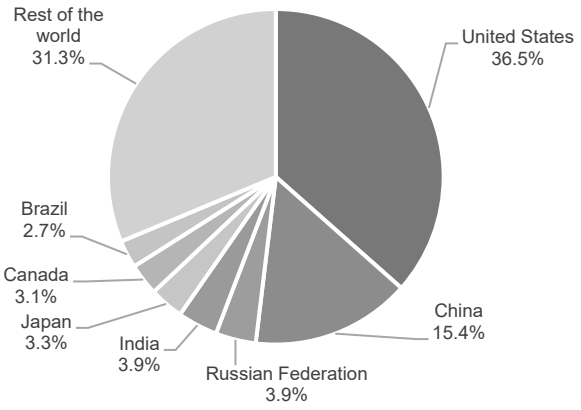


Figure 53: Major motor gasoline consuming countries, 2021

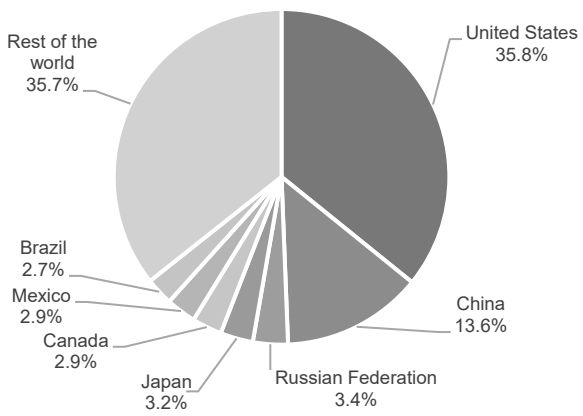


Table 19

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	**2018**	**1,072,685**	**236,280**	**243,356**	**-1,507**	**1,067,116**	**139**
	2019	**1,070,070**	**253,377**	**234,637**	**-5,170**	**1,093,980**	**141**
	2020	**956,325**	**222,850**	**211,142**	**681**	**967,352**	**123**
	2021	**1,037,539**	**249,220**	**232,670**	**686**	**1,053,402**	**133**
Africa	**2018**	**17,724**	**30,215**	**1,884**	**-2,271**	**48,326**	**37**
	2019	**16,360**	**38,388**	**1,680**	**-535**	**53,603**	**40**
	2020	**14,822**	**37,124**	**1,487**	**432**	**50,028**	**37**
	2021	**12,886**	**42,129**	**1,189**	**73**	**53,753**	**39**
Algeria	2018	3,749	124	0	336	3,537	84
	2019	3,253	578	0	-32	3,863	90
	2020	3,105	392	93	28	3,376	78
	2021	3,406	0	0	9	3,397	77
Angola	2018	5	1,794	8	..	1,792	57
	2019	39	1,077	4	..	1,112	34
	2020	11	756	5	..	762	23
	2021	14	1,172	5	..	1,181	34
Benin	2018	..	909	..	-2	910	76
	2019	..	934	..	-10	945	77
	2020	..	955	..	1	955	76
	2021	..	970	..	-8	979	75
Botswana	2018	..	452	..	..	452	184
	2019	..	452	..	..	452	181
	2020	..	423	..	..	423	166
	2021	..	428	..	..	428	165
Burkina Faso	2018	..	433	..	3	430	21
	2019	..	431	..	3	428	20
	2020	..	441	..	*4	437	20
	2021	..	574	..	*42	532	24
Burundi	2018	..	96	..	..	96	8
	2019	..	96	..	..	96	8
	2020	..	107	..	..	107	9
	2021	..	112	..	..	112	9
Cabo Verde	2018	..	9	..	..	9	17
	2019	..	*11	..	..	*11	*19
	2020	..	*10	..	..	*10	*18
	2021	..	*10	..	..	*10	*17
Cameroon	2018	218	306	35	..	489	19
	2019	113	427	34	..	505	20
	2020	..	508	..	..	508	19
	2021	..	527	..	..	527	19
Central African Rep.	2018	..	*24	..	..	*24	*5
	2019	..	*25	..	..	*25	*5
	2020	..	*27	..	..	*27	*5
	2021	..	*27	..	..	*27	*5
Chad	2018	*157	..	*3	..	*154	*10
	2019	*171	..	*3	..	*168	*10
	2020	*181	..	*2	..	*179	*11
	2021	*201	..	*3	..	*198	*12
Comoros	2018	..	*22	..	..	*22	*28
	2019	..	*24	..	..	*24	*30
	2020	..	*29	..	..	*29	*36
	2021	..	*42	..	..	*42	*51

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	2018	65	88	..	..	153	28
	2019	65	89	..	..	154	28
	2020	62	80	..	..	142	25
	2021	64	86	..	..	150	26
Côte d'Ivoire	2018	771	..	289	..	482	19
	2019	844	..	296	..	549	21
	2020	929	..	355	..	574	21
	2021	1,287	..	308	..	979	36
Dem. Rep. of the Congo	2018	..	288	..	..	288	3
	2019	..	359	..	..	359	4
	2020	..	368	..	..	368	4
	2021	..	355	..	..	355	4
Djibouti	2018	..	15	..	..	15	14
	2019	..	16	..	..	16	14
	2020	..	16	..	..	16	15
	2021	..	*17	..	..	*17	*15
Egypt	2018	4,827	2,725	299	..	7,253	70
	2019	5,258	2,172	250	..	7,180	68
	2020	5,314	1,414	49	..	6,679	62
	2021	4,146	2,282	..	..	6,428	59
Equatorial Guinea	2018	..	*67	..	..	*67	*45
	2019	..	*70	..	..	*70	*45
	2020	..	*64	..	..	*64	*40
	2021	..	*67	..	..	*67	*41
Eritrea	2018	..	9	..	..	9	3
	2019	..	10	..	..	10	3
	2020	..	9	..	..	9	3
	2021	..	9	..	..	9	3
Eswatini	2018	..	128	..	..	128	110
	2019	..	*135	..	..	*135	*116
	2020	..	*130	..	..	*130	*110
	2021	..	*115	..	..	*115	*96
Ethiopia	2018	..	507	..	7	500	4
	2019	..	559	..	5	554	5
	2020	..	653	..	6	647	6
	2021	..	674	..	..	674	6
Gabon	2018	29	42	..	..	71	33
	2019	30	42	..	..	72	32
	2020	54	26	2	..	78	34
	2021	66	22	..	..	88	38
Gambia	2018	..	24	..	..	24	10
	2019	..	*25	..	..	*25	*10
	2020	..	*24	..	..	*24	*9
	2021	..	*25	..	..	*25	*9
Ghana	2018	102	1,326	67	0	1,360	44
	2019	125	1,265	108	-97	1,379	44
	2020	66	1,625	5	137	1,549	48
	2021	43	1,769	18	-13	1,808	55
Guinea	2018	..	279	..	..	279	22
	2019	..	442	..	..	442	34
	2020	..	467	..	..	467	35
	2021	..	*475	..	..	*475	*35

Table 19

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	2018	..	*2	..	..	*2	*1
	2019	..	*2	..	..	*2	*1
	2020	..	*2	..	..	*2	*1
	2021	..	*2	..	..	*2	*1
Kenya	2018	..	1,239	..	..	1,239	25
	2019	..	1,941	2	..	1,938	38
	2020	..	1,959	..	..	1,959	38
	2021	..	1,554	..	..	1,554	29
Lesotho	2018	..	103	..	..	103	47
	2019	..	103	..	..	103	46
	2020	..	87	..	..	87	38
	2021	..	92	..	..	92	40
Liberia	2018	..	29	..	..	29	6
	2019	..	128	..	..	128	26
	2020	..	103	..	35	67	13
	2021	..	34	..	-31	65	13
Libya	2018	391	3,559	..	..	3,950	610
	2019	227	3,791	..	..	4,017	612
	2020	160	4,250	..	..	4,410	663
	2021	205	4,226	..	..	4,431	658
Madagascar	2018	..	108	..	-11	118	4
	2019	..	135	..	10	126	5
	2020	..	121	..	*9	112	4
	2021	..	123	..	*-2	124	4
Malawi	2018	..	155	..	..	155	8
	2019	..	183	..	10	173	9
	2020	..	215	..	23	192	10
	2021	..	204	..	-20	224	11
Mali	2018	..	363	..	..	363	18
	2019	..	451	..	..	451	22
	2020	..	547	..	..	547	26
	2021	..	*659	..	..	*659	*30
Mauritania	2018	..	51	..	*10	41	10
	2019	..	84	..	*33	51	12
	2020	..	76	..	*18	57	13
	2021	..	*65	..	..	*65	*14
Mauritius	2018	..	172	..	-5	177	137
	2019	..	183	..	-10	193	149
	2020	..	142	..	-29	170	131
	2021	..	187	..	20	167	129
Morocco	2018	..	670	..	-42	711	20
	2019	..	672	..	-43	714	19
	2020	..	599	..	-37	636	17
	2021	..	702	..	-43	745	20
Mozambique	2018	..	297	..	..	297	10
	2019	..	289	..	..	289	10
	2020	..	279	..	..	279	9
	2021	..	359	..	..	359	11
Namibia	2018	..	313	..	..	313	130
	2019	..	310	..	..	310	127
	2020	..	285	..	..	285	115
	2021	..	293	..	..	293	116

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	2018	197	1	101	..	97	4
	2019	175	0	32	..	143	6
	2020	250	46	103	-5	197	8
	2021	*227	..	75	..	*152	*6
Nigeria	2018	368	8,028	..	-2,536	10,932	55
	2019	107	15,745	..	-462	16,314	80
	2020	0	14,629	..	201	14,428	69
	2021	..	16,339	..	141	16,198	76
Rwanda	2018	..	106	..	..	106	8
	2019	..	170	..	60	110	9
	2020	..	109	..	..	109	8
	2021	..	121	..	..	121	9
Sao Tome and Principe	2018	..	8	..	..	8	37
	2019	..	9	..	..	9	44
	2020	..	*9	..	..	*9	*41
	2021	..	*9	..	..	*9	*41
Senegal	2018	93	134	..	..	227	15
	2019	84	212	..	0	296	18
	2020	64	171	..	-2	237	14
	2021	78	167	..	1	245	14
Seychelles	2018	..	41	..	..	41	398
	2019	..	37	..	..	37	354
	2020	..	*38	..	..	*38	*360
	2021	..	*39	..	..	*39	*366
Sierra Leone	2018	..	143	..	*8	135	17
	2019	..	148	..	*5	143	18
	2020	..	156	..	*4	152	18
	2021	..	178	..	..	178	21
Somalia	2018	..	*34	..	..	*34	*2
	2019	..	*34	..	..	*34	*2
	2020	..	*30	..	..	*30	*2
	2021	..	*33	..	..	*33	*2
South Africa	2018	5,668	1,624	979	..	6,313	110
	2019	4,795	1,093	873	..	5,015	86
	2020	3,492	1,273	854	..	3,910	67
	2021	2,240	2,966	780	..	4,426	75
South Sudan	2018	..	54	..	..	54	5
	2019	..	52	..	..	52	5
	2020	..	49	..	..	49	5
	2021	..	52	..	..	52	5
St. Helena and Depend.	2018	..	1	..	..	1	132
	2019	..	1	..	..	1	151
	2020	..	1	..	..	1	115
	2021	..	*1	..	..	*1	*130
Sudan	2018	925	349	103	..	1,171	28
	2019	*937	*353	79	..	*1,211	*28
	2020	1,011	263	18	..	1,256	28
	2021	*817	441	..	..	*1,259	*28
Togo	2018	..	155	..	-6	161	20
	2019	..	144	..	-2	146	18
	2020	..	157	..	-2	159	19
	2021	..	182	..	..	182	21

Table 19

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	2018	23	650	..	-35	708	59
	2019	..	664	..	-5	668	55
	2020	49	663	..	39	673	55
	2021	78	619	..	-21	718	59
Uganda	2018	..	689	..	..	689	17
	2019	..	745	..	..	745	17
	2020	..	698	..	..	698	16
	2021	..	794	..	..	794	17
United Rep. of Tanzania	2018	..	882	..	..	882	15
	2019	..	943	..	..	943	16
	2020	..	1,082	..	..	1,082	18
	2021	..	1,182	..	..	1,182	19
Zambia	2018	136	137	..	..	273	15
	2019	138	191	..	..	329	18
	2020	74	264	..	..	339	18
	2021	14	370	..	..	384	20
Zimbabwe	2018	..	454	..	..	454	30
	2019	..	336	..	..	336	22
	2020	..	298	..	..	298	19
	2021	..	379	..	..	379	24
Asia	**2018**	**362,349**	**93,860**	**93,894**	**363**	**361,952**	**79**
	2019	**373,414**	**92,531**	**87,254**	**-5,464**	**384,155**	**83**
	2020	**346,039**	**85,098**	**83,237**	**-519**	**348,420**	**75**
	2021	**383,638**	**88,657**	**93,660**	**2,447**	**376,188**	**80**
Afghanistan	2018	*68	705	..	..	773	21
	2019	*44	795	..	..	839	22
	2020	*18	1,008	..	..	1,026	26
	2021	*20	*910	..	..	*930	*23
Armenia	2018	..	139	..	..	139	49
	2019	..	175	..	..	175	62
	2020	..	221	0	..	221	79
	2021	..	226	0	..	226	81
Azerbaijan	2018	1,186	131	..	19	1,298	128
	2019	1,161	170	..	-26	1,357	133
	2020	1,167	116	64	40	1,179	115
	2021	1,266	155	53	-49	1,416	137
Bahrain	2018	741	..	0	-102	843	567
	2019	755	..	..	-107	862	577
	2020	537	..	..	-200	737	499
	2021	472	..	..	-346	818	559
Bangladesh	2018	195	33	..	..	227	1
	2019	229	116	..	..	344	2
	2020	222	191	..	..	413	2
	2021	126	332	..	..	457	3
Bhutan	2018	..	35	..	..	35	46
	2019	..	38	..	..	38	49
	2020	..	26	..	..	26	33
	2021	..	25	..	..	25	32
Brunei Darussalam	2018	133	141	..	-5	279	643
	2019	325	181	226	-5	285	652
	2020	1,505	339	1,358	115	370	838
	2021	1,497	517	1,238	251	524	1,177

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
Cambodia	2018	..	606	..	..	606	38
	2019	..	726	..	..	726	45
	2020	..	758	..	..	758	46
	2021	..	781	..	..	781	47
China	2018	142,647	445	12,879	-140	130,353	92
	2019	147,816	333	16,371	-4,133	135,912	96
	2020	*141,618	481	16,000	-1,243	*127,341	*89
	2021	*159,603	358	14,542	2,652	*142,766	*100
China, Hong Kong SAR	2018	..	482	12	11	459	61
	2019	..	453	12	-19	460	61
	2020	..	455	6	-6	455	61
	2021	..	474	8	-2	468	62
China, Macao SAR	2018	..	83	..	1	82	126
	2019	..	79	..	-1	80	121
	2020	..	66	..	-2	68	101
	2021	..	76	..	2	75	109
Cyprus	2018	..	339	..	-5	345	283
	2019	..	335	..	1	334	272
	2020	1	307	..	22	286	231
	2021	..	295	..	-5	300	241
Georgia	2018	1	548	1	8	540	143
	2019	1	544	0	-5	550	146
	2020	10	542	1	6	544	144
	2021	9	589	1	1	596	159
India	2018	38,039	670	12,885	..	25,824	19
	2019	38,616	2,146	12,710	..	28,052	20
	2020	35,779	1,351	11,606	..	25,524	18
	2021	40,238	671	13,482	..	27,427	19
Indonesia	2018	7,746	14,093	76	*28	21,735	81
	2019	11,310	14,618	86	26	25,816	96
	2020	11,496	11,937	..	..	23,433	86
	2021	10,942	13,336	..	..	24,278	89
Iran (Islamic Rep. of)	2018	17,743	4,516	..	..	22,258	260
	2019	18,169	5,965	..	..	24,134	279
	2020	17,091	3,294	..	..	20,385	234
	2021	18,065	3,250	..	..	21,315	242
Iraq	2018	2,832	2,526	..	..	5,358	132
	2019	2,553	2,715	..	..	5,268	127
	2020	2,063	1,994	..	..	4,056	95
	2021	1,940	3,470	..	..	5,411	124
Israel	2018	3,055	843	822	21	3,055	361
	2019	2,946	654	649	-19	2,970	345
	2020	2,491	382	394	103	2,376	271
	2021	2,686	705	570	-110	2,931	329
Japan	2018	38,150	1,576	2,446	40	37,239	295
	2019	36,667	1,820	2,298	-5	36,194	288
	2020	32,692	2,221	1,807	-123	33,230	265
	2021	34,161	2,064	2,936	47	33,242	267
Jordan	2018	483	964	..	*37	1,410	135
	2019	547	977	..	73	1,451	136
	2020	366	773	..	..	1,139	104
	2021	443	899	..	..	1,342	120

Table 19

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
Kazakhstan	2018	3,955	595	20	23	4,507	243
	2019	4,533	19	54	-65	4,563	243
	2020	4,482	1	516	297	3,670	193
	2021	4,811	1	101	-206	4,918	256
Korea, Dem.Ppl's.Rep.	2018	178	14	..	..	192	7
	2019	178	17	..	..	195	8
	2020	178	15	..	..	193	7
	2021	178	9	..	..	187	7
Korea, Republic of	2018	19,601	20	10,291	216	9,114	176
	2019	19,722	15	10,285	-152	9,604	185
	2020	16,770	0	8,680	-144	8,234	159
	2021	19,526	35	11,516	30	8,015	155
Kuwait	2018	2,097	..	502	-1,564	3,159	732
	2019	2,587	..	339	-1,017	3,265	735
	2020	2,189	..	280	..	1,909	438
	2021	2,613	..	268	..	2,346	552
Kyrgyzstan	2018	219	632	28	31	792	127
	2019	103	485	17	-6	577	91
	2020	13	550	2	16	545	85
	2021	21	619	1	47	592	91
Lao People's Dem. Rep.	2018	..	182	..	..	182	26
	2019	..	*185	..	..	*185	*26
	2020	..	*181	..	..	*181	*25
	2021	..	*175	..	..	*175	*24
Lebanon	2018	..	1,983	..	..	1,983	333
	2019	..	2,075	..	..	2,075	359
	2020	..	*1,981	..	..	*1,981	*350
	2021	..	*1,571	..	..	*1,571	*281
Malaysia	2018	5,258	10,130	2,941	9	12,438	384
	2019	5,064	8,364	331	-193	13,289	405
	2020	4,846	6,585	1,689	-857	10,600	319
	2021	6,438	10,603	7,431	-442	10,052	299
Maldives	2018	..	69	..	..	69	140
	2019	..	85	..	..	85	168
	2020	..	59	..	..	59	114
	2021	..	73	..	..	73	139
Mongolia	2018	..	435	..	..	435	137
	2019	..	542	..	..	542	168
	2020	..	586	..	..	586	178
	2021	..	573	..	..	573	171
Myanmar	2018	70	1,951	..	-103	2,124	40
	2019	52	1,853	..	..	1,905	36
	2020	53	2,064	..	..	2,117	40
	2021	49	1,780	..	-110	1,939	36
Nepal	2018	..	399	..	3	396	14
	2019	..	361	..	54	306	11
	2020	..	417	..	3	414	14
	2021	..	518	..	..	518	17
Oman	2018	3,185	0	410	0	2,775	603
	2019	3,311	0	550	0	2,761	600
	2020	2,718	..	479	..	2,240	493
	2021	3,110	..	824	..	2,286	506

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
Other Asia	2018	9,485	110	4,403	71	5,122	216
	2019	9,046	204	3,905	-32	5,377	226
	2020	7,129	203	1,927	13	5,392	226
	2021	8,933	106	3,427	-71	5,684	238
Pakistan	2018	2,283	5,591	..	..	7,875	36
	2019	1,986	6,560	..	..	8,547	38
	2020	2,535	8,559	..	..	11,094	49
	2021	2,496	9,663	..	..	12,160	53
Philippines	2018	2,435	2,205	230	169	4,240	39
	2019	1,689	2,172	46	-54	3,870	35
	2020	936	2,905	128	-85	3,797	34
	2021	833	2,892	98	-2	3,628	32
Qatar	2018	1,770	147	129	..	1,788	646
	2019	1,671	154	96	..	1,729	616
	2020	1,396	143	82	..	1,456	528
	2021	1,655	579	101	..	2,133	794
Saudi Arabia	2018	23,854	14,114	17,738	..	20,231	578
	2019	23,197	*3,962	*4,267	*-367	23,258	649
	2020	19,990	4,318	6,493	-5	17,819	495
	2021	23,826	*3,560	*6,319	..	21,066	586
Singapore	2018	8,491	12,350	19,969	192	679	117
	2019	8,122	16,901	24,472	-356	906	154
	2020	6,634	16,114	21,639	..	1,108	188
	2021	7,160	13,915	20,571	..	505	85
Sri Lanka	2018	165	1,128	..	7	1,286	60
	2019	186	1,160	..	-31	1,377	64
	2020	164	1,057	..	25	1,196	55
	2021	124	1,187	..	-37	1,347	62
State of Palestine	2018	..	226	..	..	226	47
	2019	..	226	..	..	226	46
	2020	..	221	..	..	221	44
	2021	..	260	..	..	260	51
Syrian Arab Republic	2018	563	456	..	..	1,019	53
	2019	505	376	..	..	882	44
	2020	527	278	..	..	805	39
	2021	509	235	..	..	745	35
Tajikistan	2018	1	173	..	..	174	19
	2019	0	171	..	..	171	18
	2020	0	234	..	..	234	25
	2021	0	242	..	..	243	25
Thailand	2018	9,356	1,143	1,246	1,101	8,152	115
	2019	9,299	1,636	893	1,046	8,996	126
	2020	9,252	1,705	1,238	1,329	8,390	117
	2021	8,802	1,210	1,382	816	7,814	109
Timor-Leste	2018	..	30	..	..	30	24
	2019	..	35	..	..	35	27
	2020	..	36	..	..	36	28
	2021	..	36	..	..	36	27
Türkiye	2018	4,767	..	2,442	57	2,268	27
	2019	5,374	..	2,974	-19	2,419	29
	2020	4,220	..	1,867	-17	2,371	28
	2021	4,699	5	1,673	0	3,030	36

Table 19

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
Turkmenistan	2018	2,610	..	1,105	..	1,505	248
	2019	2,610	..	1,490	..	1,120	182
	2020	2,610	..	1,705	..	905	145
	2021	2,610	..	1,705	..	905	143
United Arab Emirates	2018	3,578	8,308	3,110	..	8,776	960
	2019	6,412	9,561	4,980	..	10,993	1,193
	2020	6,026	8,119	4,980	..	9,166	987
	2021	7,223	8,156	4,980	..	10,400	1,110
Uzbekistan	2018	1,147	0	0	103	1,044	32
	2019	1,016	4	0	-51	1,072	32
	2020	1,044	249	..	-52	1,345	40
	2021	1,044	121	1	-37	1,201	35
Viet Nam	2018	4,109	2,053	208	135	5,819	61
	2019	5,470	2,003	202	..	7,271	76
	2020	5,173	1,511	295	246	6,142	64
	2021	5,420	848	432	16	5,820	60
Yemen	2018	154	543	..	..	697	23
	2019	143	564	..	..	707	22
	2020	100	547	..	..	647	20
	2021	87	553	..	..	640	19
Europe	**2018**	**172,977**	**28,953**	**93,752**	**-501**	**108,679**	**145**
	2019	**170,203**	**30,120**	**93,922**	**98**	**106,303**	**142**
	2020	**151,939**	**26,860**	**81,222**	**1,474**	**96,103**	**128**
	2021	**162,831**	**29,025**	**88,127**	**-630**	**104,359**	**140**
Albania	2018	..	133	..	27	105	37
	2019	0	136	..	27	110	38
	2020	..	110	..	28	82	29
	2021	..	88	..	5	82	29
Andorra	2018	..	21	..	..	21	278
	2019	..	23	..	..	23	295
	2020	..	17	..	..	17	215
	2021	..	21	..	..	21	271
Austria	2018	2,029	710	1,059	-48	1,728	195
	2019	2,074	652	978	56	1,692	191
	2020	1,804	549	984	-48	1,417	159
	2021	1,869	548	996	-42	1,464	164
Belarus	2018	3,335	20	2,163	-7	1,199	124
	2019	2,900	4	1,662	-3	1,245	129
	2020	3,009	2	1,815	97	1,099	114
	2021	3,009	2	1,815	..	1,196	125
Belgium	2018	4,173	1,541	4,269	99	1,347	118
	2019	4,435	1,280	4,726	-52	1,041	90
	2020	3,288	678	3,170	12	783	68
	2021	3,465	875	3,622	40	678	58
Bosnia and Herzegovina	2018	116	118	59	-7	182	54
	2019	18	153	10	-15	176	52
	2020	..	143	..	-1	144	43
	2021	..	161	..	-8	169	52
Bulgaria	2018	1,552	216	1,262	-12	518	73
	2019	1,827	269	1,601	-23	518	73
	2020	1,265	270	1,048	-7	494	71
	2021	1,034	252	746	9	532	77

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
Croatia	2018	895	134	479	51	499	120
	2019	712	155	425	-36	478	116
	2020	626	128	357	-2	399	97
	2021	585	167	328	-21	445	110
Czechia	2018	1,519	716	567	64	1,604	152
	2019	1,624	560	596	-26	1,614	153
	2020	1,310	560	431	-29	1,468	139
	2021	1,585	569	630	9	1,515	144
Denmark	2018	2,257	428	1,185	-31	1,531	266
	2019	2,293	462	1,280	-12	1,487	257
	2020	2,258	443	1,136	65	1,499	257
	2021	2,262	335	1,208	-18	1,406	240
Estonia	2018	..	513	266	-22	269	203
	2019	..	414	113	27	274	207
	2020	..	699	462	22	215	162
	2021	..	510	329	-16	197	149
Faeroe Islands	2018	..	*11	..	..	*11	*214
	2019	..	*11	..	..	*11	*215
	2020	..	*11	..	..	*11	*208
	2021	..	*11	..	..	*11	*212
Finland	2018	4,570	579	3,005	21	2,123	385
	2019	4,582	614	3,337	-32	1,891	342
	2020	4,353	616	3,001	57	1,911	346
	2021	3,459	597	2,445	-132	1,743	315
France	2018	11,265	1,361	3,167	-20	9,479	142
	2019	10,270	1,486	2,619	-4	9,142	137
	2020	8,404	1,367	2,188	1	7,581	113
	2021	8,366	2,565	2,093	-72	8,911	133
Germany	2018	21,923	2,440	5,052	-16	19,327	233
	2019	21,427	3,163	4,853	127	19,610	236
	2020	20,739	1,893	5,365	-5	17,272	207
	2021	20,309	2,298	5,949	-118	16,776	201
Gibraltar	2018	..	43	..	..	43	1,328
	2019	..	47	..	..	47	1,431
	2020	..	43	..	..	43	1,327
	2021	..	43	..	..	43	1,323
Greece	2018	5,351	352	4,499	-136	1,341	126
	2019	5,048	627	4,074	8	1,593	151
	2020	4,736	431	4,614	37	516	49
	2021	5,250	420	4,798	-114	985	94
Hungary	2018	1,188	508	258	29	1,409	144
	2019	1,163	795	431	21	1,506	154
	2020	1,199	471	279	14	1,377	141
	2021	1,131	554	201	26	1,458	150
Iceland	2018	..	134	..	6	128	362
	2019	..	122	..	0	123	340
	2020	..	101	..	-4	105	286
	2021	..	114	..	3	111	300
Ireland	2018	636	539	342	9	823	170
	2019	552	519	407	-127	791	162
	2020	563	421	323	90	571	115
	2021	568	202	307	-139	601	121

Table 19

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
Italy	2018	15,639	353	8,483	-142	7,651	128
	2019	16,413	405	8,481	63	8,274	138
	2020	12,254	362	6,264	334	6,018	101
	2021	15,452	327	7,599	-200	8,381	141
Kosovo	2018	..	59	..	..	59	34
	2019	..	59	..	..	59	35
	2020	..	50	..	..	50	30
	2021	..	63	..	..	63	38
Latvia	2018	13	201	26	0	188	97
	2019	11	193	24	0	180	94
	2020	20	185	17	3	186	98
	2021	18	167	19	-3	169	90
Lithuania	2018	2,575	47	2,438	-9	193	67
	2019	2,489	46	2,326	3	207	73
	2020	2,171	50	2,004	-2	219	78
	2021	2,416	101	2,307	5	205	74
Luxembourg	2018	..	332	..	-3	335	551
	2019	..	359	..	-1	360	581
	2020	..	280	..	3	276	438
	2021	..	334	..	-3	337	527
Malta	2018	..	79	..	1	78	160
	2019	..	76	..	-7	83	165
	2020	..	75	..	5	70	136
	2021	..	79	..	4	76	144
Montenegro	2018	..	39	7	-5	37	59
	2019	..	36	2	-3	37	59
	2020	..	28	..	..	28	44
	2021	..	39	..	..	39	62
Netherlands (Kingd. of the)	2018	4,521	7,636	23,214	-257	-10,800	-625
	2019	4,948	7,221	25,751	-133	-13,449	-775
	2020	4,603	7,508	20,263	361	-8,513	-488
	2021	5,452	8,322	24,510	-345	-10,391	-594
North Macedonia	2018	..	120	17	0	103	49
	2019	..	120	17	0	103	49
	2020	..	85	9	1	76	36
	2021	..	96	11	0	85	40
Norway	2018	4,477	389	3,885	4	977	184
	2019	3,688	513	3,650	44	507	95
	2020	3,587	428	3,127	9	879	163
	2021	4,251	443	3,929	-28	793	147
Poland	2018	4,451	468	367	6	4,546	118
	2019	4,577	423	246	38	4,715	122
	2020	4,244	368	212	-2	4,402	115
	2021	4,169	844	52	84	4,877	127
Portugal	2018	2,508	149	1,644	2	1,012	98
	2019	2,408	261	1,585	11	1,073	104
	2020	1,961	193	1,271	-11	894	87
	2021	2,168	202	1,424	-37	984	96
Republic of Moldova	2018	..	169	..	-1	170	54
	2019	..	178	..	2	176	57
	2020	4	163	8	0	159	52
	2021	..	185	..	-3	188	62

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
Romania	2018	3,523	104	2,165	-58	1,519	77
	2019	3,637	70	2,187	-20	1,541	79
	2020	3,165	101	1,882	-6	1,390	71
	2021	3,128	101	1,668	20	1,541	80
Russian Federation	2018	39,053	31	4,210	26	34,849	239
	2019	39,494	1	5,183	107	34,205	235
	2020	37,915	19	5,235	204	32,495	223
	2021	40,285	2	3,866	928	35,494	245
Serbia	2018	516	68	150	11	422	57
	2019	445	77	111	-20	432	58
	2020	451	58	112	1	397	54
	2021	505	69	130	0	443	61
Slovakia	2018	1,420	207	1,025	23	579	106
	2019	1,193	217	838	8	564	103
	2020	1,115	189	777	-5	532	97
	2021	1,175	188	813	8	542	99
Slovenia	2018	..	610	198	-10	422	200
	2019	..	658	260	-3	401	190
	2020	..	571	232	14	325	153
	2021	..	465	97	1	367	173
Spain	2018	9,451	441	4,347	-129	5,674	121
	2019	9,289	1,438	4,740	288	5,699	121
	2020	7,956	1,066	4,304	-86	4,804	101
	2021	9,844	504	4,565	-115	5,899	124
Sweden	2018	5,278	785	3,650	40	2,373	233
	2019	3,917	612	1,974	-46	2,601	253
	2020	3,800	883	2,618	47	2,017	195
	2021	4,822	845	3,742	-89	2,014	192
Switzerland	2018	689	1,587	2	-72	2,346	276
	2019	649	1,690	1	-3	2,341	273
	2020	616	1,499	0	47	2,068	239
	2021	560	1,462	0	-105	2,128	245
Ukraine	2018	*874	1,138	..	23	1,989	45
	2019	*1,034	1,042	0	-30	2,105	48
	2020	*892	1,005	0	-25	1,922	44
	2021	*711	1,263	..	-12	1,985	46
United Kingdom	2018	17,179	3,424	10,292	42	10,270	155
	2019	17,085	2,933	9,434	-134	10,718	161
	2020	13,630	2,741	7,713	252	8,406	125
	2021	14,982	2,589	7,928	-151	9,795	146
Latin America & Carib.	**2018**	**65,947**	**41,888**	**6,481**	**35**	**101,319**	**158**
	2019	**63,395**	**44,147**	**5,232**	**-359**	**102,670**	**159**
	2020	**52,342**	**37,148**	**4,686**	**101**	**84,704**	**130**
	2021	**59,564**	**40,981**	**3,900**	**152**	**96,493**	**147**
Anguilla	2018	..	6	..	*-1	7	481
	2019	..	6	..	*-2	7	481
	2020	..	10	..	*2	7	462
	2021	..	6	..	*-2	7	470
Antigua and Barbuda	2018	..	*53	*3	..	*50	*546
	2019	..	*53	*3	..	*50	*543
	2020	..	*50	*2	..	*48	*518
	2021	..	*60	*8	..	*52	*558

Table 19

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
Argentina	2018	7,457	457	*788	-47	7,173	162
	2019	7,331	385	*811	-29	6,934	155
	2020	6,115	119	118	-63	6,179	137
	2021	6,141	436	57	-61	6,581	145
Aruba	2018	..	*66	..	..	*66	*619
	2019	..	*61	..	..	*61	*576
	2020	..	*58	..	..	*58	*544
	2021	..	*63	..	..	*63	*593
Bahamas	2018	..	245	..	..	245	610
	2019	..	276	..	..	276	682
	2020	..	182	..	..	182	447
	2021	..	219	..	..	219	538
Barbados	2018	..	87	..	0	87	310
	2019	..	86	..	-4	90	320
	2020	..	72	..	-5	77	274
	2021	..	75	..	2	72	257
Belize	2018	..	78	..	..	78	204
	2019	..	85	..	..	85	218
	2020	..	73	..	..	73	185
	2021	..	74	..	..	74	186
Bolivia (Plur. State of)	2018	997	322	..	-2	1,320	114
	2019	916	486	..	3	1,400	119
	2020	963	130	..	-6	1,100	92
	2021	1,038	439	..	-1	1,477	122
Bonaire, St Eustatius, Saba	2018	..	*2	..	..	*2	*61
	2019	..	*2	..	..	*2	*59
	2020	..	*2	..	..	*2	*58
	2021	..	*2	..	..	*2	*57
Brazil	2018	26,295	2,393	1,029	-142	27,801	132
	2019	26,182	3,574	1,491	258	28,007	132
	2020	23,914	3,633	1,754	-59	25,852	121
	2021	27,627	2,040	1,329	187	28,151	131
British Virgin Islands	2018	..	*11	..	..	*11	*363
	2019	..	*12	..	..	*12	*376
	2020	..	*11	..	..	*11	*356
	2021	..	*12	..	..	*12	*370
Cayman Islands	2018	..	48	..	..	48	735
	2019	..	50	..	..	50	757
	2020	..	41	..	..	41	614
	2021	..	45	..	..	45	666
Chile	2018	2,964	549	28	2	3,483	186
	2019	3,319	271	69	16	3,505	184
	2020	2,626	335	8	-17	2,969	154
	2021	2,802	785	38	25	3,523	181
Colombia	2018	4,458	1,190	91	..	5,557	113
	2019	4,853	1,090	31	-8	5,920	118
	2020	3,434	1,368	198	22	4,582	90
	2021	4,507	2,350	8	299	6,551	127
Costa Rica	2018	..	913	..	-38	951	189
	2019	..	1,017	..	67	950	187
	2020	..	750	..	-43	794	155
	2021	..	964	..	43	921	179

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
Cuba	2018	212	254	*212	..	254	22
	2019	199	236	*203	..	232	21
	2020	291	226	*314	..	204	18
	2021	107	126	..	..	233	21
Curaçao	2018	843	70	843	..	70	380
	2019	0	67	0	..	67	345
	2020	..	48	..	..	48	256
	2021	..	64	..	..	64	336
Dominica	2018	..	*10	..	0	*10	*147
	2019	..	*10	..	0	*11	*148
	2020	..	*9	..	..	*9	*125
	2021	..	*9	..	..	*9	*124
Dominican Republic	2018	256	908	..	-20	1,184	110
	2019	251	940	..	-21	1,212	111
	2020	95	986	..	-22	1,102	100
	2021	108	1,114	..	-3	1,224	110
Ecuador	2018	1,447	1,853	..	13	3,286	193
	2019	1,349	2,142	4	12	3,475	200
	2020	1,035	1,598	0	13	2,619	149
	2021	1,202	1,882	..	-27	3,110	175
El Salvador	2018	..	622	2	..	620	99
	2019	..	752	..	..	752	120
	2020	..	653	7	..	646	103
	2021	..	810	0	..	809	128
Falkland Is. (Malvinas)	2018	..	0	..	..	0	53
	2019	..	0	..	..	0	42
	2020	..	0	..	..	0	39
	2021	..	0	..	..	0	40
Grenada	2018	..	26	..	-2	28	233
	2019	..	28	..	1	27	224
	2020	..	24	..	1	24	192
	2021	..	26	..	3	23	184
Guatemala	2018	..	1,629	33	-3	1,599	95
	2019	..	1,869	39	55	1,776	104
	2020	..	1,639	19	-22	1,642	95
	2021	..	2,026	69	37	1,920	109
Guyana	2018	..	155	..	-4	159	202
	2019	..	174	..	-3	177	221
	2020	..	177	..	0	178	223
	2021	..	*169	..	*-1	*170	*211
Haiti	2018	..	321	..	..	321	29
	2019	..	273	..	..	273	24
	2020	..	313	..	..	313	28
	2021	..	383	..	..	383	33
Honduras	2018	..	814	1	18	795	81
	2019	..	869	14	..	855	86
	2020	..	774	29	2	743	73
	2021	..	987	1	30	956	93
Jamaica	2018	119	378	..	..	497	177
	2019	181	438	..	3	616	219
	2020	138	315	..	3	450	159
	2021	120	401	..	-19	539	191

Table 19

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
Mexico	2018	8,654	24,017	..	157	32,514	262
	2019	8,213	24,028	..	-692	32,933	263
	2020	7,993	19,272	..	290	26,975	214
	2021	9,488	20,660	..	-165	30,313	239
Montserrat	2018	..	4	..	..	4	895
	2019	..	3	..	..	3	644
	2020	..	3	..	..	3	556
	2021	..	*3	..	..	*3	*589
Nicaragua	2018	96	227	..	..	323	49
	2019	108	233	..	0	341	51
	2020	111	207	..	-17	335	50
	2021	134	236	..	5	366	53
Panama	2018	..	767	..	24	743	178
	2019	..	794	..	-9	803	190
	2020	..	486	..	93	394	92
	2021	..	716	..	-26	742	171
Paraguay	2018	244	814	..	-14	1,071	166
	2019	287	756	..	-29	1,071	164
	2020	239	621	..	14	845	128
	2021	290	710	..	-14	1,014	151
Peru	2018	2,684	971	2,051	58	1,546	48
	2019	2,840	770	1,808	46	1,757	54
	2020	2,469	1,024	1,546	-10	1,958	59
	2021	3,076	1,394	1,783	-29	2,716	81
Sint Maarten (Dutch part)	2018	..	*14	..	..	*14	*320
	2019	..	*14	..	..	*14	*316
	2020	..	*13	..	..	*13	*298
	2021	..	*14	..	..	*14	*307
St. Kitts-Nevis	2018	..	*18	..	..	*18	*377
	2019	..	*19	..	..	*19	*388
	2020	..	*17	..	..	*17	*363
	2021	..	*17	..	..	*17	*359
St. Lucia	2018	..	46	..	..	46	256
	2019	..	47	..	..	47	261
	2020	..	*44	..	..	*44	*247
	2021	..	*45	..	..	*45	*252
St. Vincent-Grenadines	2018	..	30	..	..	30	283
	2019	..	27	..	..	27	253
	2020	..	31	..	..	31	295
	2021	..	*35	..	..	*35	*331
Suriname	2018	66	66	5	..	127	214
	2019	61	112	..	..	173	289
	2020	59	144	..	..	203	335
	2021	71	113	..	..	184	300
Trinidad and Tobago	2018	1,823	..	1,395	20	408	271
	2019	408	813	754	..	466	307
	2020	350	750	685	-77	493	325
	2021	305	684	590	-115	515	337
Turks and Caicos Islands	2018	..	*36	..	..	*36	*865
	2019	..	*36	..	..	*36	*840
	2020	..	*36	..	..	*36	*804
	2021	..	*37	..	..	*37	*809

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	2018	588	11	0	14	586	171
	2019	611	0	6	-24	629	183
	2020	573	17	6	3	582	170
	2021	623	..	17	-17	622	182
Venezuela (Bolivar. Rep.)	2018	6,745	1,408	..	..	8,153	273
	2019	6,286	1,245	..	..	7,531	260
	2020	1,937	886	..	..	2,824	99
	2021	1,928	752	..	..	2,680	95
Northern America	**2018**	**443,727**	**35,262**	**47,190**	**866**	**430,933**	**1,167**
	2019	**436,834**	**42,263**	**46,369**	**976**	**431,752**	**1,161**
	2020	**382,623**	**30,784**	**40,417**	**-725**	**373,715**	**999**
	2021	**410,821**	**41,194**	**45,709**	**-1,494**	**407,800**	**1,087**
Bermuda	2018	..	21	..	*2	19	306
	2019	..	14	..	*-4	18	279
	2020	..	16	..	..	16	253
	2021	..	19	..	..	19	298
Canada	2018	33,343	4,011	6,588	78	30,688	829
	2019	33,536	6,342	7,607	-19	32,290	861
	2020	30,886	4,159	6,489	103	28,453	751
	2021	31,688	5,115	6,560	-135	30,377	796
Greenland	2018	..	16	..	*-1	17	307
	2019	..	16	..	*-3	19	344
	2020	..	19	..	0	19	342
	2021	..	21	..	*1	20	352
St. Pierre-Miquelon	2018	..	*3	..	..	*3	*572
	2019	..	*4	..	..	*4	*624
	2020	..	*3	..	..	*3	*542
	2021	..	*3	..	..	*3	*476
United States	2018	410,384	31,210	40,602	788	400,204	1,205
	2019	403,298	35,888	38,762	1,003	399,421	1,195
	2020	351,737	26,588	33,928	-827	345,223	1,028
	2021	379,133	36,037	39,149	-1,360	377,381	1,120
Oceania	**2018**	**9,961**	**6,103**	**156**	**2**	**15,906**	**374**
	2019	**9,863**	**5,926**	**179**	**114**	**15,496**	**358**
	2020	**8,560**	**5,835**	**92**	**-81**	**14,383**	**327**
	2021	**7,799**	**7,232**	**85**	**138**	**14,809**	**333**
American Samoa	2018	..	*13	..	..	*13	*277
	2019	..	*13	..	..	*13	*283
	2020	..	*13	..	..	*13	*290
	2021	..	*13	..	..	*13	*298
Australia	2018	8,587	4,662	112	64	13,073	523
	2019	8,370	4,434	153	33	12,619	498
	2020	7,326	4,317	74	-110	11,678	455
	2021	6,542	5,642	8	105	12,071	466
Cook Islands	2018	..	*6	..	..	*6	*361
	2019	..	*6	..	..	*6	*364
	2020	..	*6	..	..	*6	*355
	2021	..	*6	..	..	*6	*371
Fiji	2018	..	*150	*22	..	*128	*139
	2019	..	*153	*26	..	*127	*138
	2020	..	*101	*18	..	*83	*90
	2021	..	*131	*36	..	*95	*103

Table 19

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
French Polynesia	2018	..	54	..	1	53	179
	2019	..	53	..	-2	55	182
	2020	..	50	..	0	50	166
	2021	..	55	..	0	54	179
Kiribati	2018	..	*7	..	..	*7	*58
	2019	..	*7	..	..	*7	*58
	2020	..	*7	..	..	*7	*55
	2021	..	*7	..	..	*7	*54
Marshall Islands	2018	..	*12	..	..	*12	*259
	2019	..	*12	..	..	*12	*268
	2020	..	*12	..	..	*12	*272
	2021	..	*12	..	..	*12	*273
Micronesia (Fed. States of)	2018	..	*18	..	..	*18	*164
	2019	..	*18	..	..	*18	*165
	2020	..	*18	..	..	*18	*161
	2021	..	*18	..	..	*18	*157
Nauru	2018	..	*3	..	..	*3	*244
	2019	..	*3	..	..	*3	*235
	2020	..	*3	..	..	*3	*233
	2021	..	*3	..	..	*3	*237
New Caledonia	2018	..	74	..	2	71	250
	2019	..	66	..	-6	71	250
	2020	..	76	..	7	69	241
	2021	..	60	..	-7	67	233
New Zealand	2018	1,374	984	22	-49	2,385	493
	2019	1,493	953	..	86	2,360	476
	2020	1,234	1,097	..	21	2,310	456
	2021	1,257	1,146	41	39	2,324	453
Niue	2018	..	*1	..	..	*1	*387
	2019	..	*1	..	..	*1	*390
	2020	..	*1	..	..	*1	*396
	2021	..	*1	..	..	*1	*398
Northern Mariana Islands	2018	..	*16	..	..	*16	*318
	2019	..	*16	..	..	*16	*321
	2020	..	*10	..	..	*10	*202
	2021	..	*13	..	..	*13	*263
Palau	2018	..	*8	..	..	*8	*448
	2019	..	*9	..	..	*9	*502
	2020	..	*8	..	..	*8	*445
	2021	..	*8	..	..	*8	*444
Papua New Guinea	2018	..	19	..	-16	35	4
	2019	..	95	..	0	95	10
	2020	..	37	..	0	37	4
	2021	..	*37	..	..	*37	*4
Samoa	2018	..	28	0	0	28	134
	2019	..	33	0	*2	30	142
	2020	..	*27	0	0	*27	*127
	2021	..	*28	0	0	*27	*125
Solomon Islands	2018	..	*21	..	..	*21	*33
	2019	..	*22	..	..	*22	*32
	2020	..	*22	..	..	*22	*32
	2021	..	*22	..	..	*22	*31

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
Tonga	2018	..	17	..	..	17	163
	2019	..	25	..	..	25	236
	2020	..	18	..	..	18	169
	2021	..	19	..	..	19	177
Tuvalu	2018	..	*1	..	..	*1	*61
	2019	..	*1	..	..	*1	*62
	2020	..	*1	..	..	*1	*57
	2021	..	*1	..	..	*1	*58
Vanuatu	2018	..	8	..	..	8	26
	2019	..	6	..	..	6	19
	2020	..	9	..	..	9	29
	2021	..	10	..	..	10	33
Wallis and Futuna Is.	2018	..	*1	..	..	*1	*102
	2019	..	*1	..	..	*1	*101
	2020	..	*1	..	..	*1	*108
	2021	..	*1	..	..	*1	*105

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 54: Production of other kerosene by region, 1990-2021

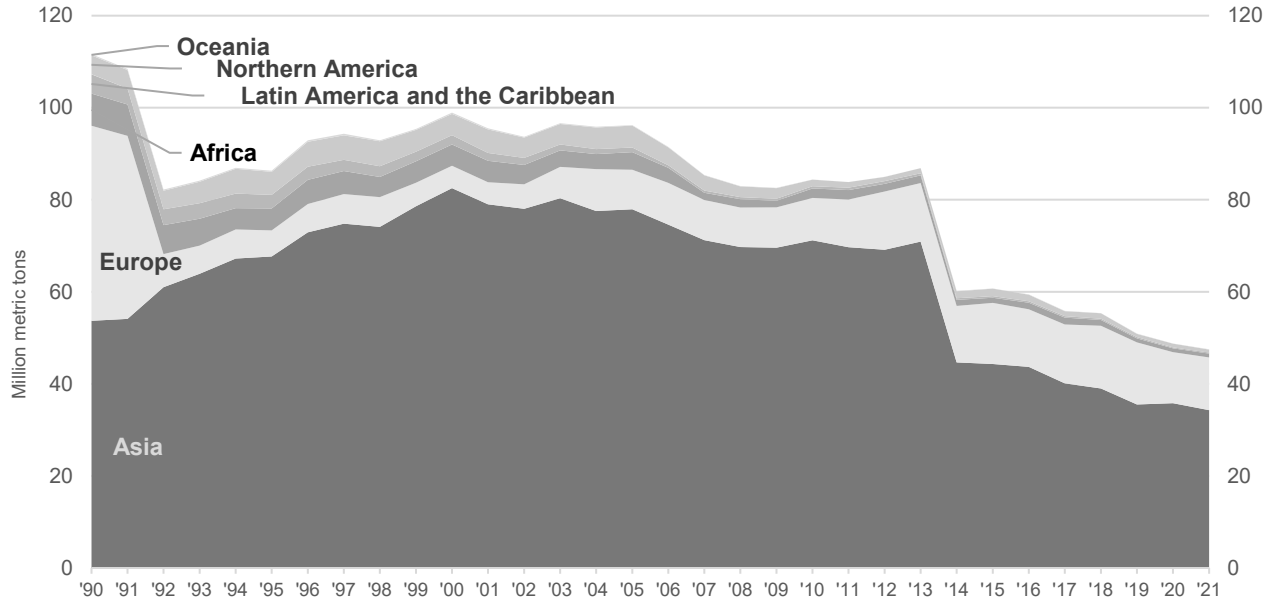


Figure 55: Major other kerosene producing countries, 2021

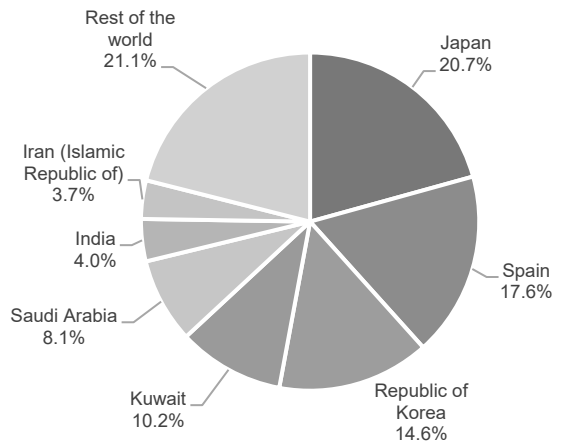


Figure 56: Major other kerosene consuming countries, 2021

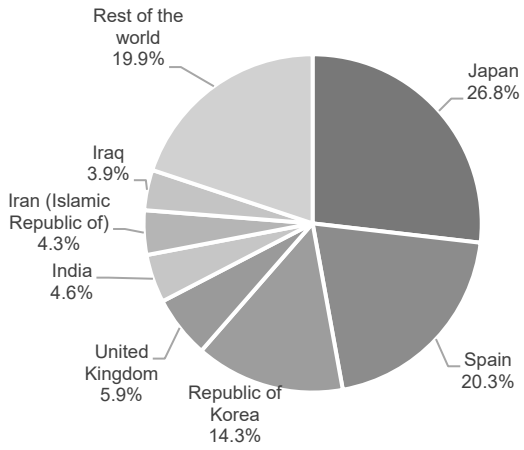


Table 20

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	**2018**	**55,377**	**6,567**	**15,644**	**2,012**	**44,288**	**6**
	2019	**50,912**	**7,163**	**14,178**	**1,632**	**42,265**	**5**
	2020	**48,777**	**8,024**	**12,626**	**1,122**	**43,053**	**5**
	2021	**47,505**	**6,368**	**12,228**	**468**	**41,178**	**5**
Africa	**2018**	**1,257**	**1,099**	**96**	**-9**	**2,268**	**2**
	2019	**873**	**1,286**	**62**	**9**	**2,088**	**2**
	2020	**820**	**1,331**	**235**	**-29**	**1,946**	**1**
	2021	**813**	**1,442**	**137**	**17**	**2,100**	**2**
Algeria	2018	*19	..	..	..	*19	0
	2019	*16	..	..	..	*16	0
	2020	22	..	..	..	22	1
	2021	11	..	..	..	11	0
Angola	2018	36	..	..	..	36	1
	2019	24	..	..	..	24	1
	2020	143	..	144	*-24	23	1
	2021	121	..	*71	*25	25	1
Benin	2018	..	50	..	-1	51	4
	2019	..	24	..	0	24	2
	2020	..	23	..	0	23	2
	2021	..	23	..	0	22	2
Botswana	2018	..	3	..	..	3	1
	2019	..	3	..	..	3	1
	2020	..	2	..	..	2	1
	2021	..	6	..	..	6	2
Burkina Faso	2018	..	7	..	*1	6	0
	2019	..	9	..	*2	7	0
	2020	..	5	..	0	5	0
	2021	..	5	..	0	5	0
Burundi	2018	..	0	..	0	0	0
	2019	..	0	..	0	0	0
	2020	..	1	..	..	1	0
	2021	..	0	..	..	0	0
Cabo Verde	2018	..	0	..	..	0	1
	2019	..	0	..	..	0	0
	2020	..	0	..	..	0	0
	2021	..	0	..	..	0	0
Cameroon	2018	90	15	4	..	102	4
	2019	47	60	2	..	104	4
	2020	..	107	..	..	107	4
	2021	..	110	..	..	110	4
Central African Rep.	2018	..	*2	..	..	*2	0
	2019	..	*2	..	..	*2	0
	2020	..	*2	..	..	*2	0
	2021	..	*2	..	..	*2	0
Chad	2018	*4	..	2	..	*2	0
	2019	*4	..	*2	..	*2	0
	2020	*3	..	*1	..	*2	0
	2021	*4	..	*1	..	*2	0
Comoros	2018	..	*12	..	..	*12	*15
	2019	..	*13	..	..	*13	*16
	2020	..	*13	..	..	*13	*16
	2021	..	*14	..	..	*14	*16

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
Congo	2018	7	..	..	..	7	1
	2019	7	..	..	..	7	1
	2020	4	..	..	..	4	1
	2021	5	..	..	..	5	1
Dem. Rep. of the Congo	2018	..	2	..	..	2	0
	2019	..	3	..	..	3	0
	2020	..	13	..	..	13	0
	2021	..	6	..	..	6	0
Djibouti	2018	..	7	..	..	7	6
	2019	..	7	..	..	7	6
	2020	..	7	..	..	7	6
	2021	..	*7	..	..	*7	*6
Egypt	2018	33	..	29	..	4	0
	2019	41	..	..	..	41	0
	2020	43	..	39	..	5	0
	2021	33	..	18	..	14	0
Equatorial Guinea	2018	..	*15	..	..	*15	*10
	2019	..	*12	..	..	*12	*8
	2020	..	*11	..	..	*11	*7
	2021	..	*12	..	..	*12	*8
Eritrea	2018	..	8	..	..	8	2
	2019	..	8	..	..	8	2
	2020	..	8	..	..	8	2
	2021	..	8	..	..	8	2
Eswatini	2018	..	4	..	..	4	3
	2019	..	*4	..	..	*4	*3
	2020	..	*4	..	..	*4	*3
	2021	..	*4	..	..	*4	*3
Ethiopia	2018	..	61	..	-4	65	1
	2019	..	68	..	..	68	1
	2020	..	70	..	-3	73	1
	2021	..	68	..	..	68	1
Gabon	2018	22	23	18	..	27	12
	2019	22	23	18	..	27	12
	2020	23	..	17	..	6	3
	2021	17	3	10	..	10	4
Ghana	2018	33	..	..	..	33	1
	2019	12	..	..	11	1	0
	2020	35	..	..	-3	38	1
	2021	24	..	..	-4	27	1
Guinea	2018	..	21	..	..	21	2
	2019	..	25	..	..	25	2
	2020	..	*26	..	..	*26	*2
	2021	..	*27	..	..	*27	*2
Guinea-Bissau	2018	..	*9	..	..	*9	*5
	2019	..	*10	..	..	*10	*5
	2020	..	*9	..	..	*9	*5
	2021	..	*10	..	..	*10	*5
Kenya	2018	..	339	..	..	339	7
	2019	..	21	..	..	21	0
	2020	..	16	0	..	16	0
	2021	..	111	..	..	111	2

Table 20

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	2018	..	28	..	..	28	13
	2019	..	21	..	..	21	10
	2020	..	35	..	..	35	16
	2021	..	33	..	..	33	15
Libya	2018	17	93	..	..	110	17
	2019	10	83	..	..	93	14
	2020	11	57	..	..	68	10
	2021	19	51	..	..	70	10
Madagascar	2018	..	20	..	-3	23	1
	2019	..	20	..	-4	24	1
	2020	..	29	..	*1	28	1
	2021	..	32	..	*-3	35	1
Malawi	2018	..	0	..	..	0	0
	2019	..	0	..	..	0	0
	2020	..	1	..	..	1	0
	2021	..	1	..	..	1	0
Mali	2018	..	2	..	..	2	0
	2019	..	1	..	..	1	0
	2020	..	1	..	..	1	0
	2021	..	*1	..	..	*1	0
Mauritius	2018	..	3	..	2	1	1
	2019	..	13	..	10	4	3
	2020	..	1	..	0	0	0
	2021	..	2	..	1	1	0
Namibia	2018	..	2	..	..	2	1
	2019	..	2	..	..	2	1
	2020	..	2	..	..	2	1
	2021	..	2	..	..	2	1
Niger	2018	..	1	..	..	1	0
	2019	..	1	..	..	1	0
	2020	..	2	..	..	2	0
	2021	..	1	..	..	1	0
Nigeria	2018	327	159	..	..	486	2
	2019	60	655	..	..	715	4
	2020	0	725	..	..	725	3
	2021	13	732	..	..	745	3
Rwanda	2018	..	5	..	*-3	8	1
	2019	..	4	..	..	4	0
	2020	..	4	..	..	4	0
	2021	..	4	..	..	4	0
Sao Tome and Principe	2018	..	*4	..	..	*4	*20
	2019	..	*4	..	..	*4	*20
	2020	..	*4	..	..	*4	*20
	2021	..	*4	..	..	*4	*19
Senegal	2018	..	..	..	..	..	..
	2019	2	..	..	..	2	0
	2020	..	..	..	..	..	..
	2021	..	..	..	..	..	..
Seychelles	2018	..	*1	..	..	*1	*9
	2019	..	*1	..	..	*1	*9
	2020	..	*1	..	..	*1	*8
	2021	..	*1	..	..	*1	*8

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
Sierra Leone	2018	..	*1	..	..	*1	0
	2019	..	0	..	..	0	0
	2020	..	0	..	..	0	0
	2021	..	*1	..	..	*1	0
Somalia	2018	..	*31	..	..	*31	*2
	2019	..	*31	..	..	*31	*2
	2020	..	*27	..	..	*27	*2
	2021	..	*30	..	..	*30	*2
South Africa	2018	605	2	39	..	568	10
	2019	596	2	39	..	559	10
	2020	504	1	34	..	471	8
	2021	537	..	36	..	500	8
South Sudan	2018	..	2	..	..	2	0
	2019	..	2	..	..	2	0
	2020	..	2	..	..	2	0
	2021	..	2	..	..	2	0
Sudan	2018	10	..	..	..	10	0
	2019	*10	..	..	..	*10	0
	2020	*2	..	..	..	*2	0
	2021	*10	..	..	..	*10	0
Togo	2018	..	26	..	-1	27	3
	2019	..	22	..	-1	23	3
	2020	..	21	..	-1	22	3
	2021	..	6	..	..	6	1
Tunisia	2018	34	..	..	..	34	3
	2019	11	..	..	-9	20	2
	2020	20	..	..	0	20	2
	2021	18	..	..	-2	21	2
Uganda	2018	..	47	..	..	47	1
	2019	..	44	..	..	44	1
	2020	..	37	..	..	37	1
	2021	..	43	..	..	43	1
United Rep. of Tanzania	2018	..	33	..	..	33	1
	2019	..	29	..	..	29	0
	2020	..	28	..	..	28	0
	2021	..	16	..	..	16	0
Zambia	2018	21	..	5	..	15	1
	2019	13	..	2	..	11	1
	2020	9	..	..	..	9	0
	2021	2	3	..	..	5	0
Zimbabwe	2018	..	61	..	..	61	4
	2019	..	59	..	..	59	4
	2020	..	34	..	..	34	2
	2021	..	61	..	..	61	4
Asia	**2018**	**38,983**	**2,337**	**13,464**	**1,856**	**25,999**	**6**
	2019	**35,534**	**2,726**	**12,094**	**1,647**	**24,518**	**5**
	2020	**35,816**	**2,921**	**10,286**	**1,072**	**27,378**	**6**
	2021	**34,292**	**1,847**	**10,229**	**1,018**	**24,892**	**5**
Afghanistan	2018	..	12	..	*-11	23	1
	2019	..	*19	..	*-2	*21	*1
	2020	..	*21	..	*1	*20	*1
	2021	..	*18	..	*2	*16	0

Table 20

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
Armenia	2018	..	0	..	..	0	0
	2019	..	1	..	..	1	0
	2020	..	1	..	..	1	0
	2021	..	..	..	..	..	..
Azerbaijan	2018	..	23	..	..	23	2
	2019	..	4	..	..	4	0
	2020	..	17	..	..	17	2
	2021	..	0	..	..	0	0
Bahrain	2018	0	..	0	-16	16	11
	2019	0	..	0	-16	16	11
	2020	..	..	..	-15	15	10
	2021	..	..	..	-14	14	10
Bangladesh	2018	127	..	..	..	127	1
	2019	95	..	..	..	95	1
	2020	83	..	..	..	83	0
	2021	73	..	..	..	73	0
Bhutan	2018	..	3	..	..	3	4
	2019	..	2	..	..	2	3
	2020	..	1	..	..	1	2
	2021	..	1	..	..	1	2
Brunei Darussalam	2018	4	..	..	..	4	9
	2019	3	..	..	..	3	7
	2020	5	..	..	..	5	11
	2021	5	..	..	..	5	11
China	2018	1,437	65	0	-52	1,554	1
	2019	1,715	842	5	100	2,452	2
	2020	*2,531	..	..	..	*2,531	*2
	2021	*1,303	..	..	..	*1,303	*1
China, Macao SAR	2018	..	2	..	..	2	3
	2019	..	2	..	..	2	3
	2020	..	1	..	..	1	1
	2021	..	1	..	..	1	2
Cyprus	2018	..	12	..	0	12	10
	2019	..	12	..	0	12	10
	2020	..	18	..	3	15	12
	2021	..	12	..	-1	13	11
India	2018	4,072	..	19	..	4,053	3
	2019	3,141	..	176	..	2,965	2
	2020	2,393	3	15	..	2,381	2
	2021	1,916	..	14	..	1,902	1
Indonesia	2018	779	0	0	..	779	3
	2019	896	37	0	..	933	3
	2020	614	..	..	..	614	2
	2021	*415	..	..	..	*415	*2
Iran (Islamic Rep. of)	2018	2,895	..	..	..	2,895	34
	2019	2,107	..	..	..	2,107	24
	2020	2,212	..	..	..	2,212	25
	2021	1,752	..	..	..	1,752	20
Iraq	2018	1,447	222	..	..	1,669	41
	2019	1,526	222	..	..	1,748	42
	2020	1,312	225	..	..	1,537	36
	2021	1,382	223	11	..	1,593	37

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
Israel	2018	..	380	301	-9	88	10
	2019	..	165	300	-12	-123	-14
	2020	..	253	103	16	134	15
	2021	..	146	165	-5	-14	-2
Japan	2018	10,780	1,457	568	-94	11,763	93
	2019	10,777	1,276	811	78	11,164	89
	2020	10,655	2,213	1,058	32	11,778	94
	2021	9,837	1,239	313	-282	11,045	89
Jordan	2018	11	40	..	-18	69	7
	2019	*35	60	..	..	95	9
	2020	78	5	..	..	83	8
	2021	54	23	..	..	77	7
Kazakhstan	2018	5	1	0	4	2	0
	2019	5	..	0	-12	17	1
	2020	3	1	..	-5	9	0
	2021	9	0	..	4	5	0
Korea, Dem.Ppl's.Rep.	2018	37	1	..	..	38	1
	2019	37	1	..	..	38	1
	2020	37	1	..	..	38	1
	2021	37	1	..	..	38	1
Korea, Republic of	2018	2,729	..	846	62	1,821	35
	2019	2,781	5	539	31	2,216	43
	2020	5,745	10	826	-131	5,060	98
	2021	6,925	28	1,018	56	5,879	113
Kuwait	2018	4,676	..	4,539	..	137	32
	2019	3,965	..	3,832	..	133	30
	2020	3,348	..	3,261	..	87	20
	2021	4,831	..	4,708	..	124	29
Lao People's Dem. Rep.	2018	..	*6	..	..	*6	*1
	2019	..	*6	..	..	*6	*1
	2020	..	*6	..	..	*6	*1
	2021	..	*6	..	..	*6	*1
Malaysia	2018	18	..	50	8	-40	-1
	2019	8	0	47	-6	-33	-1
	2020	12	1	38	-8	-19	-1
	2021	10	3	41	-8	-20	-1
Nepal	2018	..	19	..	0	20	1
	2019	..	15	..	0	15	1
	2020	..	18	..	0	18	1
	2021	..	13	..	..	13	0
Oman	2018	3	..	..	..	3	1
	2019	2	..	..	..	2	0
	2020	1	..	..	..	1	0
	2021	1	..	..	..	1	0
Other Asia	2018	5	..	..	1	4	0
	2019	2	..	..	0	2	0
	2020	5	..	..	0	5	0
	2021	5	..	..	0	5	0
Pakistan	2018	113	..	..	-5	118	1
	2019	87	0	..	..	87	0
	2020	95	..	..	..	95	0
	2021	95	..	..	..	95	0

Table 20

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
Philippines	2018	47	34	..	2	79	1
	2019	33	17	..	-4	54	0
	2020	24	39	..	-4	67	1
	2021	22	51	..	7	66	1
Saudi Arabia	2018	7,459	..	*6,871	*292	296	8
	2019	6,077	..	*6,120	*-121	*78	*2
	2020	4,890	..	*4,851	*-104	*143	*4
	2021	3,858	..	*3,807	*-41	92	3
Singapore	2018	250	15	266	..	0	0
	2019	256	7	263	..	0	0
	2020	83	43	126	..	0	0
	2021	84	21	105	..	0	0
Sri Lanka	2018	35	..	..	-7	42	2
	2019	38	..	..	1	37	2
	2020	109	..	..	-5	114	5
	2021	98	..	..	1	98	4
State of Palestine	2018	..	1	..	..	1	0
	2019	..	1	..	..	1	0
	2020	..	2	..	..	2	0
	2021	..	1	..	..	1	0
Syrian Arab Republic	2018	3	..	..	..	3	0
	2019	3	..	..	..	3	0
	2020	3	..	..	..	3	0
	2021	3	..	..	..	3	0
Thailand	2018	1,694	..	4	1,684	6	0
	2019	1,619	..	2	1,611	6	0
	2020	1,306	..	6	1,295	5	0
	2021	1,325	..	25	1,297	3	0
Timor-Leste	2018	..	1	..	..	1	1
	2019	..	0	..	..	0	0
	2020	..	0	..	..	0	0
	2021	..	0	..	..	0	0
Türkiye	2018	23	..	..	15	8	0
	2019	10	..	..	1	9	0
	2020	6	..	..	-2	8	0
	2021	2	..	..	0	2	0
Turkmenistan	2018	150	..	..	..	150	25
	2019	150	..	..	..	150	24
	2020	150	..	..	..	150	24
	2021	150	..	..	..	150	24
Uzbekistan	2018	9	..	..	..	9	0
	2019	6	..	..	0	6	0
	2020	4	..	..	..	4	0
	2021	4	21	22	2	0	0
Viet Nam	2018	..	43	1	..	42	0
	2019	..	32	..	..	32	0
	2020	..	43	1	..	42	0
	2021	..	38	1	..	37	0
Yemen	2018	173	..	..	..	173	6
	2019	160	..	..	..	160	5
	2020	112	..	..	..	112	3
	2021	98	..	..	..	98	3

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
Europe	**2018**	**13,624**	**2,713**	**1,866**	**117**	**14,354**	**19**
	2019	**13,482**	**2,356**	**1,790**	**-55**	**14,103**	**19**
	2020	**11,075**	**3,173**	**1,817**	**117**	**12,314**	**16**
	2021	**11,464**	**2,514**	**1,617**	**-544**	**12,905**	**17**
Austria	2018	26	1	0	0	26	3
	2019	15	1	0	0	15	2
	2020	13	0	0	0	14	2
	2021	9	1	0	0	10	1
Belarus	2018	7	..	0	2	5	1
	2019	14	..	5	7	2	0
	2020	10	..	..	8	2	0
	2021	10	..	..	..	10	1
Belgium	2018	30	64	302	-10	-198	-17
	2019	25	63	313	-11	-213	-19
	2020	26	55	195	-3	-112	-10
	2021	35	29	24	1	39	3
Croatia	2018	..	3	..	..	3	1
	2019	..	2	..	..	2	0
	2020	..	2	..	..	2	0
	2021	..	2	..	..	2	0
Czechia	2018	..	2	..	..	2	0
	2019	..	2	..	..	2	0
	2020	..	2	..	..	2	0
	2021	..	2	..	..	2	0
Finland	2018	..	380	54	..	326	59
	2019	..	493	110	..	383	69
	2020	..	607	104	..	503	91
	2021	..	499	104	..	395	71
France	2018	..	186	66	0	120	2
	2019	..	210	72	0	138	2
	2020	..	195	181	0	14	0
	2021	..	203	119	..	84	1
Germany	2018	2	22	..	-4	28	0
	2019	4	19	..	-2	25	0
	2020	..	20	..	-1	21	0
	2021	13	23	6	2	28	0
Greece	2018	..	1	..	0	1	0
	2019	..	1	..	0	1	0
	2020	..	1	..	0	1	0
	2021	..	1	1	0	1	0
Ireland	2018	215	350	21	-12	556	115
	2019	307	330	70	-16	583	119
	2020	277	357	10	6	619	125
	2021	255	347	..	-10	612	123
Italy	2018	721	445	647	85	434	7
	2019	471	265	312	-11	434	7
	2020	333	529	555	40	267	4
	2021	88	369	520	-440	378	6
Luxembourg	2018	..	0	..	0	0	1
	2019	..	1	..	0	1	1
	2020	..	1	..	0	1	1
	2021	..	1	..	..	1	1

Table 20

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
Malta	2018	..	1	..	0	1	1
	2019	..	1	0	0	1	1
	2020	..	1	..	0	0	1
	2021	..	0	..	0	0	1
Netherlands (Kingd. of the)	2018	211	518	321	5	403	23
	2019	305	402	412	-12	307	18
	2020	260	312	242	64	266	15
	2021	539	309	407	-59	500	29
Norway	2018	7	68	62	3	10	2
	2019	40	58	52	0	45	8
	2020	13	44	15	0	42	8
	2021	0	22	..	0	22	4
Poland	2018	0	1	0	0	1	0
	2019	0	0	..	0	0	0
	2020	0	0	0	0	0	0
	2021	0	2	1	0	1	0
Portugal	2018	0	0	..	0	1	0
	2019	0	0	..	0	0	0
	2020	0	0	..	0	1	0
	2021	0	0	..	-1	1	0
Romania	2018	1	1	0	0	2	0
	2019	1	1	0	0	1	0
	2020	0	1	0	0	1	0
	2021	..	1	0	0	1	0
Russian Federation	2018	*315	..	315	..	0	0
	2019	*428	..	428	..	0	0
	2020	*400	..	*400	..	0	0
	2021	*400	..	*400	..	0	0
Spain	2018	10,038	..	..	46	9,992	214
	2019	9,816	..	..	-10	9,826	208
	2020	7,839	..	..	-46	7,885	166
	2021	8,379	..	0	11	8,368	176
Switzerland	2018	..	2	0	..	2	0
	2019	..	2	0	0	2	0
	2020	..	2	0	..	2	0
	2021	..	3	0	..	2	0
United Kingdom	2018	2,053	667	78	2	2,640	40
	2019	2,057	508	16	..	2,549	38
	2020	1,903	1,044	114	49	2,784	42
	2021	1,734	701	35	-48	2,449	36
Latin America & Carib.	**2018**	**295**	**212**	**17**	**-2**	**493**	**1**
	2019	**254**	**258**	**4**	**4**	**503**	**1**
	2020	**224**	**222**	**3**	**4**	**439**	**1**
	2021	**247**	**200**	**2**	**1**	**444**	**1**
Argentina	2018	9	..	..	-2	11	0
	2019	8	..	..	-1	9	0
	2020	9	..	..	..	9	0
	2021	7	..	..	..	7	0
Bahamas	2018	..	*3	..	..	*3	*8
	2019	..	*3	..	..	*3	*8
	2020	..	*3	..	..	*3	*8
	2021	..	*3	..	..	*3	*8

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
Barbados	2018	..	*63	..	0	*63	*227
	2019	..	*82	..	0	*83	*295
	2020	..	*79	..	0	*79	*283
	2021	..	*58	..	-2	*60	*213
Belize	2018	..	0	..	..	0	0
	2019	..	0	..	..	0	1
	2020	..	0	..	..	0	1
	2021	..	0	..	..	0	1
Bolivia (Plur. State of)	2018	18	..	..	0	18	2
	2019	20	..	..	0	20	2
	2020	14	..	..	0	14	1
	2021	17	..	..	0	17	1
Brazil	2018	5	..	..	..	5	0
	2019	5	..	..	..	5	0
	2020	4	..	..	..	4	0
	2021	4	..	..	..	4	0
British Virgin Islands	2018	..	*3	..	..	*3	*99
	2019	..	*3	..	..	*3	*101
	2020	..	*3	..	..	*3	*97
	2021	..	*3	..	..	*3	*96
Chile	2018	162	..	..	1	161	9
	2019	161	..	..	3	159	8
	2020	153	..	..	-2	156	8
	2021	177	..	..	6	172	9
Colombia	2018	..	..	..	..	..	..
	2019	5	..	..	..	5	0
	2020	1	..	..	..	1	0
	2021	7	..	..	..	7	0
Cuba	2018	7	..	..	..	7	1
	2019	1	..	..	..	1	0
	2020	4	..	..	..	4	0
	2021	4	..	..	..	4	0
Dominica	2018	..	0	..	0	0	*6
	2019	..	0	..	0	0	*6
	2020	..	0	..	0	0	*3
	2021	..	0	..	0	0	*3
Dominican Republic	2018	8	..	..	0	8	1
	2019	16	..	..	..	16	1
	2020	7	..	..	..	7	1
	2021	7	..	..	..	7	1
El Salvador	2018	..	4	..	..	4	1
	2019	..	22	..	..	22	4
	2020	..	3	..	..	3	0
	2021	..	2	..	..	2	0
Falkland Is. (Malvinas)	2018	..	3	..	..	3	805
	2019	..	3	..	..	3	853
	2020	..	3	..	..	3	822
	2021	..	3	..	..	3	723
Grenada	2018	..	0	..	..	0	1
	2019	..	0	..	..	0	1
	2020	..	0	..	..	0	0
	2021	..	0	..	..	0	0

Table 20

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
Guatemala	2018	..	17	17	0	1	0
	2019	..	10	4	2	4	0
	2020	..	8	3	4	0	0
	2021	..	1	2	-2	0	0
Guyana	2018	..	15	..	2	13	17
	2019	..	16	..	3	13	16
	2020	..	10	..	-1	11	14
	2021	..	*11	..	..	*11	*14
Haiti	2018	..	73	..	..	73	7
	2019	..	73	..	..	73	7
	2020	..	71	..	..	71	6
	2021	..	69	..	..	69	6
Honduras	2018	..	21	..	-3	24	2
	2019	..	22	..	..	22	2
	2020	..	19	..	2	17	2
	2021	..	28	0	0	28	3
Montserrat	2018	..	0	..	..	0	*92
	2019	..	0	..	..	0	*89
	2020	..	0	..	..	0	*89
	2021	..	0	..	..	0	*91
Nicaragua	2018	8	..	..	..	8	1
	2019	6	..	..	..	6	1
	2020	5	..	..	..	5	1
	2021	4	..	..	..	4	1
Panama	2018	..	1	..	..	1	0
	2019	..	1	..	..	1	0
	2020	..	1	..	..	1	0
	2021	..	1	..	..	1	0
St. Kitts-Nevis	2018	..	*6	..	..	*6	*115
	2019	..	*6	..	..	*6	*119
	2020	..	*5	..	..	*5	*111
	2021	..	*5	..	..	*5	*111
St. Lucia	2018	..	2	..	..	2	8
	2019	..	*2	..	..	*2	*9
	2020	..	*2	..	..	*2	*10
	2021	..	*2	..	..	*2	*10
Suriname	2018	..	0	..	..	0	1
	2019	..	0	..	..	0	1
	2020	..	0	..	..	0	1
	2021	..	0	..	..	0	1
Trinidad and Tobago	2018	24	..	..	..	24	16
	2019	..	14	..	..	14	9
	2020	..	13	..	..	13	9
	2021	..	11	..	..	11	8
Uruguay	2018	5	..	..	0	5	2
	2019	4	..	..	-1	5	1
	2020	6	..	..	1	5	1
	2021	4	..	..	-1	4	1
Venezuela (Bolivar. Rep.)	2018	49	..	..	..	49	2
	2019	28	..	..	..	28	1
	2020	20	..	..	..	20	1
	2021	16	..	..	..	16	1

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
Northern America	**2018**	**1,162**	**177**	**202**	**49**	**1,088**	**3**
	2019	**718**	**511**	**228**	**27**	**975**	**3**
	2020	**789**	**361**	**285**	**-42**	**906**	**2**
	2021	**637**	**344**	**242**	**-25**	**763**	**2**
Bermuda	2018	..	30	..	..	30	475
	2019	..	26	..	..	26	405
	2020	..	12	..	..	12	188
	2021	..	9	..	..	9	136
Canada	2018	728	67	..	-19	814	22
	2019	245	394	..	-7	646	17
	2020	218	301	..	5	515	14
	2021	194	297	..	-4	495	13
United States	2018	434	80	202	68	244	1
	2019	473	92	228	34	303	1
	2020	571	47	285	-47	380	1
	2021	442	38	242	-20	259	1
Oceania	**2018**	**56**	**30**	**0**	**1**	**85**	**2**
	2019	**52**	**25**	**0**	**0**	**77**	**2**
	2020	**53**	**17**	**0**	**0**	**70**	**2**
	2021	**53**	**22**	**0**	**0**	**75**	**2**
Australia	2018	6	2	..	2	5	0
	2019	..	2	..	-2	4	0
	2020	..	6	..	..	6	0
	2021	..	5	..	..	5	0
Fiji	2018	..	*1	..	..	*1	*1
	2019	..	0	..	..	0	0
	2020	..	0	..	..	0	0
	2021	..	0	..	..	0	0
French Polynesia	2018	..	1	..	0	1	3
	2019	..	1	..	0	1	2
	2020	..	1	..	0	1	2
	2021	..	1	..	0	1	3
Kiribati	2018	..	*2	..	..	*2	*17
	2019	..	*2	..	..	*2	*15
	2020	..	*2	..	..	*2	*15
	2021	..	*2	..	..	*2	*15
New Caledonia	2018	..	10	..	..	10	36
	2019	..	2	..	..	2	6
	2020	..	1	..	..	1	4
	2021	..	7	..	..	7	23
Palau	2018	..	*2	..	..	*2	*118
	2019	..	*2	..	..	*2	*117
	2020	..	*2	..	..	*2	*111
	2021	..	*2	..	..	*2	*111
Papua New Guinea	2018	51	..	..	..	51	5
	2019	52	..	..	..	52	5
	2020	53	..	..	..	53	5
	2021	*53	..	..	..	*53	*5
Samoa	2018	..	12	0	*-1	13	61
	2019	..	15	0	*2	13	61
	2020	..	*5	0	*-1	*6	*26
	2021	..	*6	0	..	*6	*27

Table 20

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	2018	..	0	..	..	0	1
	2019	..	0	..	..	0	1
	2020	..	0	..	..	0	2
	2021	..	0	..	..	0	1
Tuvalu	2018	..	0	..	..	0	*4
	2019	..	0	..	..	0	*4
	2020	..	0	..	..	0	*4
	2021	..	0	..	..	0	*4
Vanuatu	2018	..	0	..	..	0	0
	2019	..	2	..	..	2	5
	2020	..	0	..	..	0	0
	2021	..	0	..	..	0	0

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 57: Production of jet fuels by region, 1990-2021

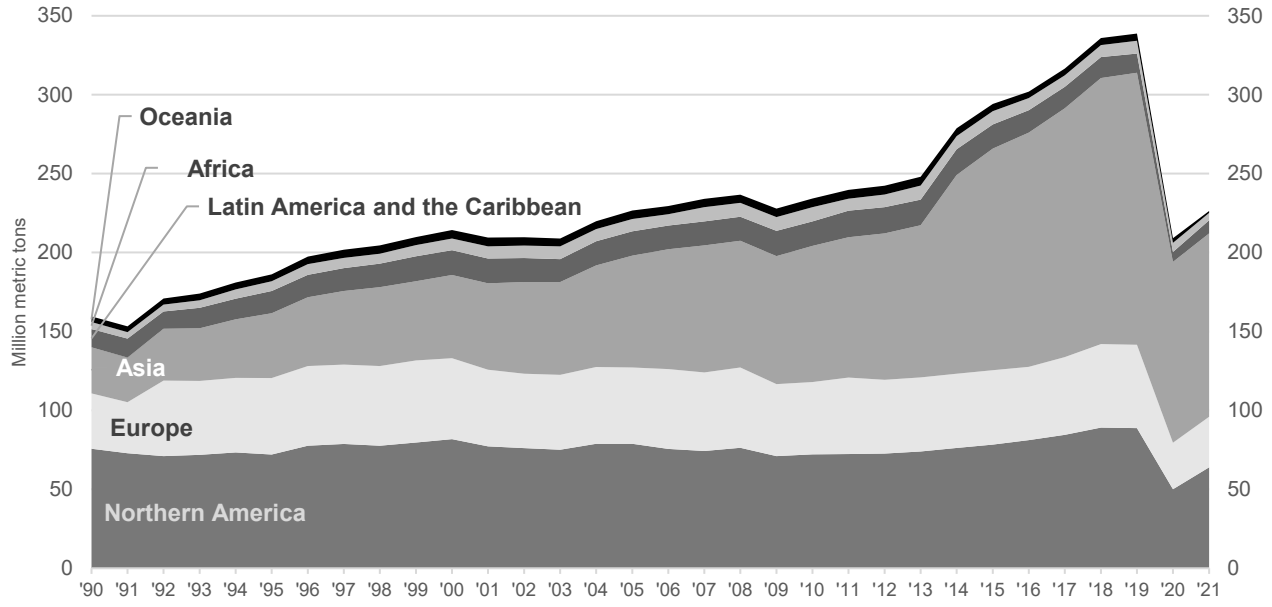


Figure 58: Major jet fuels producing countries, 2021

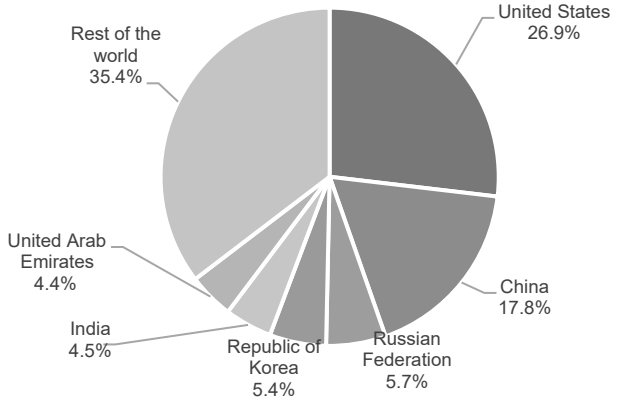
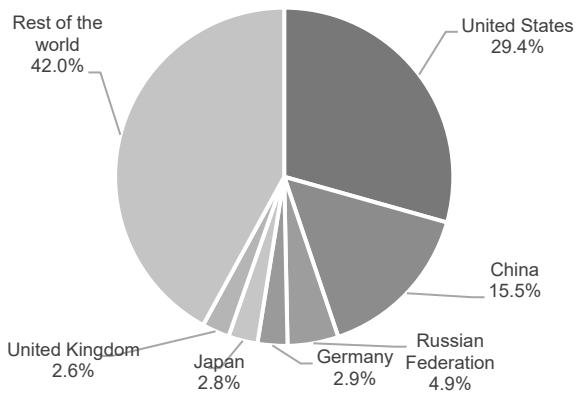


Figure 59: Major jet fuels consuming[1] countries, 2021



[1] Consumption includes bunkers

Table 21

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	**2018**	**335,888**	**92,601**	**101,398**	**195,943**	**1,912**	**129,236**	**17**
	2019	**338,723**	**90,908**	**97,567**	**200,882**	**690**	**130,491**	**17**
	2020	**209,093**	**57,459**	**70,777**	**97,536**	**2,043**	**96,196**	**12**
	2021	**226,301**	**55,248**	**67,986**	**106,022**	**-2,566**	**110,107**	**14**
Africa	**2018**	**7,645**	**6,010**	**3,194**	**8,648**	**52**	**1,761**	**1**
	2019	**8,131**	**5,772**	**2,974**	**9,065**	**20**	**1,844**	**1**
	2020	**5,736**	**3,613**	**3,059**	**4,812**	**-93**	**1,571**	**1**
	2021	**4,593**	**4,248**	**1,744**	**5,192**	**0**	**1,905**	**1**
Algeria	2018	1,515	..	953	*434	31	97	2
	2019	1,221	..	682	*354	-1	186	4
	2020	992	..	683	*217	-10	102	2
	2021	849	..	434	*223	-19	211	5
Angola	2018	228	92	*45	294	..	-19	-1
	2019	329	..	*23	292	..	14	0
	2020	294	..	27	76	..	191	6
	2021	225	..	42	58	..	126	4
Benin	2018	..	30	..	30	0	0	0
	2019	..	27	..	21	6	0	0
	2020	..	12	..	16	-8	4	0
	2021	..	22	..	17	4	1	0
Botswana	2018	..	17	..	14	..	2	1
	2019	..	18	..	16	..	2	1
	2020	..	5	..	4	..	1	0
	2021	..	7	..	6	..	1	1
Burkina Faso	2018	..	33	..	30	*3	0	0
	2019	..	27	..	30	*-4	0	0
	2020	..	18	..	18	0	0	0
	2021	..	29	..	29	0	0	0
Burundi	2018	..	5	..	5	..	0	0
	2019	..	5	..	5	..	0	0
	2020	..	2	..	2	..	0	0
	2021	..	3	..	3	..	0	0
Cabo Verde	2018	..	*64	..	*49	..	*15	*27
	2019	..	*68	..	*46	..	*22	*39
	2020	..	*28	..	*20	..	*8	*13
	2021	..	*29	..	*19	..	*10	*17
Cameroon	2018	79	10	62	16	..	12	0
	2019	41	16	32	16	..	8	0
	2020	..	11	..	7	..	3	0
	2021	..	16	..	9	..	7	0
Central African Rep.	2018	..	*17	..	17	..	0	0
	2019	..	*17	..	*17	..	0	0
	2020	..	*18	..	*18	..	0	0
	2021	..	*19	..	*19	..	0	0
Chad	2018	*38	*3	*3	28	..	*11	*1
	2019	*37	*3	*3	27	..	*10	*1
	2020	*39	*2	*3	*27	..	*11	*1
	2021	*39	*2	*3	*27	..	*11	*1
Comoros	2018	..	*7	..	*2	..	*5	*7
	2019	..	*7	..	*2	..	*6	*7
	2020	..	*9	..	*2	..	*7	*9
	2021	..	*10	..	*3	..	*8	*9

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	2018	38	9	..	32	..	15	3
	2019	38	9	..	32	..	15	3
	2020	33	8	..	28	..	13	2
	2021	34	8	..	29	..	13	2
Côte d'Ivoire	2018	359	..	180	150	..	29	1
	2019	552	..	366	172	..	14	1
	2020	236	..	162	60	..	14	1
	2021	268	..	145	104	..	19	1
Dem. Rep. of the Congo	2018	..	123	..	123	..	0	0
	2019	..	133	..	133	..	0	0
	2020	..	99	..	99	..	0	0
	2021	..	121	..	121	..	0	0
Djibouti	2018	..	*81	..	*81	..	0	0
	2019	..	*81	..	*81	..	0	0
	2020	..	76	..	*76	..	0	0
	2021	..	*78	..	*78	..	0	0
Egypt	2018	2,162	0	962	624	..	576	6
	2019	2,744	..	1,205	787	..	752	7
	2020	2,261	..	1,386	520	..	356	3
	2021	1,695	..	577	415	..	702	6
Equatorial Guinea	2018	..	*45	..	45	..	0	0
	2019	..	*46	..	46	..	0	0
	2020	..	*31	..	31	..	0	0
	2021	..	*29	..	29	..	0	0
Eritrea	2018	..	14	..	14	..	0	0
	2019	..	11	..	9	..	2	0
	2020	..	4	..	3	..	1	0
	2021	..	6	..	5	..	1	0
Eswatini	2018	..	2	..	2	..	0	0
	2019	..	2	..	2	..	0	0
	2020	..	*2	..	*2	..	0	0
	2021	..	*2	..	*2	..	0	0
Ethiopia	2018	..	730	..	731	-16	15	0
	2019	..	813	..	820	-13	6	0
	2020	..	380	..	379	-3	3	0
	2021	..	497	..	493	..	4	0
Gabon	2018	36	42	23	41	..	14	6
	2019	36	43	23	42	..	14	6
	2020	39	19	17	31	..	10	4
	2021	28	22	10	31	..	9	4
Gambia	2018	..	20	*1	*19	..	0	0
	2019	..	21	*1	*20	..	0	0
	2020	..	*19	*1	*18	..	0	0
	2021	..	*20	*1	*19	..	0	0
Ghana	2018	22	191	10	174	..	28	1
	2019	80	188	..	212	34	21	1
	2020	28	87	..	120	-20	14	0
	2021	1	195	0	191	-9	14	0
Guinea	2018	..	*35	..	*30	..	*5	0
	2019	..	47	..	*42	..	5	0
	2020	..	30	..	*26	..	3	0
	2021	..	*37	..	*33	..	*5	0

Table 21

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	2018	..	*13	..	*13	..	0	0
	2019	..	*13	..	*13	..	0	0
	2020	..	*13	..	*13	..	0	0
	2021	..	*13	..	*13	..	0	0
Kenya	2018	..	675	..	674	..	1	0
	2019	..	487	0	705	..	-218	-4
	2020	..	682	0	392	..	289	6
	2021	..	508	..	480	..	28	1
Liberia	2018	..	*13	..	*6	..	*8	*2
	2019	..	*13	..	*6	..	*8	*2
	2020	..	*10	..	*4	..	*6	*1
	2021	..	*11	..	*5	..	*7	*1
Libya	2018	646	..	593	46	..	7	1
	2019	421	..	369	49	..	2	0
	2020	297	..	278	17	..	2	0
	2021	499	..	450	41	..	8	1
Madagascar	2018	..	55	..	45	-1	11	0
	2019	..	57	..	48	-4	12	0
	2020	..	*41	..	*25	*-2	*19	*1
	2021	..	*50	..	*30	*-2	*22	*1
Malawi	2018	..	9	..	*8	..	1	0
	2019	..	5	..	*4	..	1	0
	2020	..	2	..	*1	..	1	0
	2021	..	4	..	*3	..	1	0
Mali	2018	..	68	..	68	..	0	0
	2019	..	62	..	62	..	0	0
	2020	..	61	..	61	..	0	0
	2021	..	*62	..	*62	..	0	0
Mauritania	2018	..	57	..	22	*33	1	0
	2019	..	39	..	20	*17	1	0
	2020	..	24	..	12	*11	1	0
	2021	..	*32	..	17	*14	*1	0
Mauritius	2018	..	304	..	156	9	139	107
	2019	..	287	..	147	-6	147	113
	2020	..	71	..	56	-41	56	43
	2021	..	69	..	31	6	31	24
Morocco	2018	..	743	..	734	-18	27	1
	2019	..	818	..	775	11	32	1
	2020	..	276	..	278	-14	12	0
	2021	..	398	..	375	7	16	0
Mozambique	2018	..	55	..	25	..	29	1
	2019	..	62	..	26	..	36	1
	2020	..	24	..	14	..	10	0
	2021	..	53	..	18	..	35	1
Namibia	2018	..	42	..	36	..	6	2
	2019	..	42	..	36	..	6	2
	2020	..	14	..	11	..	2	1
	2021	..	16	..	16	..	1	0
Niger	2018	3	45	..	*45	..	3	0
	2019	0	46	..	*46	..	0	0
	2020	0	42	..	42	..	0	0
	2021	..	51	..	*51	..	0	0

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	2018	27	820	..	650	..	197	1
	2019	5	706	..	652	..	59	0
	2020	0	340	..	303	..	36	0
	2021	1	499	..	456	..	44	0
Rwanda	2018	..	54	..	*30	..	24	2
	2019	..	46	..	*24	..	22	2
	2020	..	30	..	*16	..	14	1
	2021	..	46	..	*24	..	22	2
Sao Tome and Principe	2018	..	*6	..	*5	..	*1	*5
	2019	..	*5	..	*3	..	*1	*6
	2020	..	*5	..	*4	..	*1	*5
	2021	..	*5	..	*4	..	*1	*5
Senegal	2018	..	212	..	202	*6	4	0
	2019	..	192	..	192	*-8	8	1
	2020	..	143	..	138	..	5	0
	2021	..	155	..	150	..	4	0
Seychelles	2018	..	32	..	*28	..	4	39
	2019	..	50	..	*43	..	6	61
	2020	..	*41	..	36	..	*5	*49
	2021	..	*42	..	*36	..	*6	*57
Sierra Leone	2018	..	*5	..	5	..	0	0
	2019	..	*3	..	4	..	-1	0
	2020	..	*2	..	2	..	*1	0
	2021	..	*3	..	3	..	0	0
Somalia	2018	..	*43	..	43	..	0	0
	2019	..	*43	..	43	..	0	0
	2020	..	*38	..	*38	..	0	0
	2021	..	*41	..	*41	..	0	0
South Africa	2018	2,444	334	363	*1,949	..	465	8
	2019	2,587	387	270	*2,105	..	599	10
	2020	1,503	485	503	*1,141	..	343	6
	2021	916	370	82	759	..	446	8
South Sudan	2018	..	79	..	74	..	5	0
	2019	..	89	..	83	..	5	0
	2020	..	59	..	54	..	4	0
	2021	..	79	..	73	..	5	0
Sudan	2018	38	80	..	125	..	-7	0
	2019	*39	*25	..	63	..	0	0
	2020	15	33	..	48	..	0	0
	2021	*38	*80	..	*118	..	0	0
Togo	2018	..	59	..	62	-3	0	0
	2019	..	58	..	56	-1	3	0
	2020	..	57	..	54	-1	4	1
	2021	..	101	..	74	..	27	3
Tunisia	2018	..	284	..	284	8	-8	-1
	2019	..	302	..	300	-12	15	1
	2020	..	91	..	101	-5	-5	0
	2021	..	135	..	128	-1	8	1
Uganda	2018	..	108	..	108	..	0	0
	2019	..	106	..	106	..	0	0
	2020	..	56	..	56	..	0	0
	2021	..	84	..	84	..	0	0

Table 21

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	2018	..	170	..	140	..	29	1
	2019	..	173	..	150	..	23	0
	2020	..	94	..	59	..	35	1
	2021	..	129	..	80	..	49	1
Zambia	2018	11	18	..	29	..	0	0
	2019	2	26	..	29	..	-2	0
	2020	0	5	..	17	..	-12	-1
	2021	..	23	..	23	..	0	0
Zimbabwe	2018	..	60	..	51	..	10	1
	2019	..	51	..	51	..	0	0
	2020	..	18	..	18	..	0	0
	2021	..	40	..	37	..	2	0
Asia	**2018**	**168,640**	**24,719**	**62,889**	**81,227**	**1,468**	**47,775**	**10**
	2019	**172,385**	**20,229**	**60,256**	**82,928**	**310**	**49,120**	**11**
	2020	**114,463**	**12,777**	**46,846**	**37,486**	**1,154**	**41,754**	**9**
	2021	**116,182**	**9,643**	**43,632**	**37,658**	**342**	**44,193**	**9**
Afghanistan	2018	..	299	..	*54	..	245	7
	2019	..	53	..	*10	..	44	1
	2020	..	64	..	*12	..	53	1
	2021	..	*54	..	*13	..	*41	*1
Armenia	2018	..	62	..	62	..	0	0
	2019	..	69	..	69	..	0	0
	2020	..	37	..	37	..	0	0
	2021	..	52	0	*52	..	0	0
Azerbaijan	2018	708	96	305	109	30	361	36
	2019	667	67	120	313	1	300	29
	2020	519	..	49	336	2	132	13
	2021	492	9	12	419	-26	95	9
Bahrain	2018	3,116	..	2,559	483	38	36	24
	2019	3,097	..	2,533	508	33	23	15
	2020	2,326	..	2,068	287	-71	42	28
	2021	1,932	..	1,532	322	39	39	27
Bangladesh	2018	1	407	..	388	..	20	0
	2019	..	430	..	410	..	21	0
	2020	1	344	..	321	..	24	0
	2021	..	238	..	220	..	18	0
Bhutan	2018	..	4	..	*4	..	0	0
	2019	..	4	..	*4	..	0	0
	2020	..	1	..	*1	..	0	0
	2021	..	1	..	*1	..	0	0
Brunei Darussalam	2018	55	26	0	81	..	0	0
	2019	248	55	144	108	51	0	0
	2020	334	118	313	38	25	76	173
	2021	94	..	77	18	-1	0	0
Cambodia	2018	..	202	..	140	..	62	4
	2019	..	225	..	156	..	69	4
	2020	..	60	..	42	..	18	1
	2021	..	21	..	20	..	2	0
China	2018	47,216	4,062	14,670	10,097	565	25,946	18
	2019	52,502	2,826	17,610	10,590	..	27,128	19
	2020	*39,713	2,657	9,975	4,771	48	*27,576	*19
	2021	*40,206	1,573	8,575	4,379	-211	*29,036	*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
China, Hong Kong SAR	2018	..	6,691	0	6,838	-156	8	1
	2019	..	6,080	..	6,187	-113	6	1
	2020	..	3,297	..	3,379	-88	6	1
	2021	..	2,991	..	3,060	-74	5	1
Cyprus	2018	..	306	..	308	2	-4	-3
	2019	..	298	..	295	-5	8	7
	2020	..	98	..	90	3	5	4
	2021	..	152	..	150	1	1	1
Georgia	2018	..	102	..	103	-1	0	0
	2019	..	102	..	101	0	1	0
	2020	..	57	..	55	1	0	0
	2021	..	96	..	94	1	1	0
India	2018	*15,461	*259	*7,389	*4,129	*98	*4,104	*3
	2019	*15,212	*65	*6,906	*3,979	71	*4,321	*3
	2020	*7,077	..	*3,544	*1,277	211	*2,045	*1
	2021	*10,261	..	*5,186	1,751	-70	*3,394	*2
Indonesia	2018	2,993	1,231	2	1,033	..	3,188	12
	2019	3,389	227	102	916	0	2,598	10
	2020	2,446	29	363	442	..	1,670	6
	2021	1,924	*1	133	183	..	1,609	6
Iran (Islamic Rep. of)	2018	1,633	*1	..	795	..	839	10
	2019	1,461	*1	..	458	..	1,004	12
	2020	806	0	..	344	..	462	5
	2021	1,132	0	..	463	..	670	8
Iraq	2018	212	58	23	226	..	21	1
	2019	235	16	22	215	..	15	0
	2020	106	42	..	137	..	11	0
	2021	176	151	10	295	..	21	0
Israel	2018	1,325	..	..	1,087	..	238	28
	2019	1,420	..	..	1,122	..	298	35
	2020	557	..	..	408	..	149	17
	2021	694	..	..	517	..	177	20
Japan	2018	12,194	1,184	2,495	6,840	9	4,033	32
	2019	12,238	1,170	2,451	6,866	7	4,085	32
	2020	5,045	552	748	2,704	-101	2,246	18
	2021	6,711	709	1,320	3,766	39	2,296	18
Jordan	2018	319	67	..	57	-13	341	33
	2019	163	305	..	*86	..	382	36
	2020	143	0	..	*43	..	100	9
	2021	201	16	..	*56	..	161	14
Kazakhstan	2018	387	232	21	601	-1	-3	0
	2019	629	40	26	461	24	158	8
	2020	444	21	6	206	-9	261	14
	2021	606	73	17	484	-15	193	10
Korea, Republic of	2018	21,571	..	14,560	4,996	79	1,936	37
	2019	21,544	0	14,480	5,300	104	1,660	32
	2020	14,199	1	10,118	2,832	-320	1,569	30
	2021	12,255	1	7,949	2,497	-145	1,954	38
Kuwait	2018	1,855	..	941	914	..	0	0
	2019	1,573	..	635	938	..	0	0
	2020	1,328	..	902	426	..	0	0
	2021	1,917	..	1,477	440	..	0	0

Table 21

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
Kyrgyzstan	2018	..	75	67	4	-2	6	1
	2019	..	63	55	*5	-3	6	1
	2020	..	66	57	*2	6	1	0
	2021	..	68	48	*4	1	15	2
Lao People's Dem. Rep.	2018	..	69	..	58	..	11	2
	2019	..	*49	..	*36	..	*13	*2
	2020	..	*48	..	*36	..	*12	*2
	2021	..	*48	..	*36	..	*12	*2
Lebanon	2018	..	264	..	*264	..	0	0
	2019	..	270	..	*270	..	0	0
	2020	..	*258	..	*258	..	0	0
	2021	..	*205	..	*205	..	0	0
Malaysia	2018	3,342	517	801	2,418	1	639	20
	2019	3,363	560	644	2,421	135	723	22
	2020	2,383	738	1,130	899	808	284	9
	2021	2,312	421	1,489	728	215	301	9
Maldives	2018	..	39	..	*20	..	19	39
	2019	..	43	..	*21	..	22	43
	2020	..	22	..	*10	..	12	23
	2021	..	30	..	*15	..	15	29
Mongolia	2018	..	40	..	37	..	3	1
	2019	..	47	..	43	..	3	1
	2020	..	19	..	18	..	1	0
	2021	..	28	..	26	..	2	1
Myanmar	2018	11	172	..	70	1	112	2
	2019	12	201	..	72	..	141	3
	2020	8	85	..	16	..	77	1
	2021	12	64	..	10	..	66	1
Nepal	2018	..	135	..	109	0	26	1
	2019	..	93	..	80	-1	14	0
	2020	..	49	..	39	1	9	0
	2021	..	106	..	86	..	20	1
Oman	2018	1,715	..	1,111	418	..	186	40
	2019	1,804	..	1,053	605	..	146	32
	2020	901	..	636	152	..	113	25
	2021	764	..	570	136	..	58	13
Other Asia	2018	4,541	165	1,066	3,231	1	408	17
	2019	4,568	40	1,036	3,340	-94	326	14
	2020	3,584	82	878	2,072	-6	721	30
	2021	3,260	39	411	2,024	50	814	34
Pakistan	2018	826	225	171	*209	..	671	3
	2019	590	186	41	*250	..	485	2
	2020	494	57	16	161	..	374	2
	2021	629	75	0	240	..	464	2
Philippines	2018	1,040	1,201	..	1,647	38	556	5
	2019	810	1,506	..	1,640	-20	695	6
	2020	343	439	..	575	-45	252	2
	2021	270	428	..	542	7	149	1
Qatar	2018	5,858	..	1,248	4,332	278	0	0
	2019	5,532	..	929	4,603	0	0	0
	2020	4,626	..	795	3,075	757	0	0
	2021	3,493	..	975	1,769	749	0	0

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
Saudi Arabia	2018	4,895	..	*325	*3,421	..	1,149	33
	2019	4,848	..	*222	*3,372	..	1,254	35
	2020	1,984	..	*150	*1,090	..	744	21
	2021	2,072	..	*110	*1,062	..	900	25
Singapore	2018	11,862	1,286	4,964	8,184	..	0	0
	2019	11,347	2,005	4,688	8,429	..	235	40
	2020	9,641	1,988	9,292	1,953	..	384	65
	2021	9,410	927	8,345	1,992	..	0	0
Sri Lanka	2018	237	461	..	501	-28	225	10
	2019	259	398	..	473	-4	187	9
	2020	157	101	..	187	11	61	3
	2021	131	178	..	222	-4	91	4
Syrian Arab Republic	2018	205	..	74	13	..	119	6
	2019	184	..	82	10	..	92	5
	2020	192	..	97	9	..	86	4
	2021	186	..	105	8	..	73	3
Tajikistan	2018	..	29	..	29	..	0	0
	2019	..	40	..	40	..	0	0
	2020	..	24	..	24	..	0	0
	2021	..	16	..	16	..	0	0
Thailand	2018	6,097	42	756	4,779	64	541	8
	2019	5,710	286	625	4,915	8	447	6
	2020	2,553	114	537	1,693	-20	457	6
	2021	1,342	10	262	1,136	6	-52	-1
Timor-Leste	2018	..	3	..	*3	..	0	0
	2019	..	3	..	*3	..	0	0
	2020	..	3	..	*3	..	0	0
	2021	..	4	..	*4	..	0	0
Türkiye	2018	4,787	482	110	3,698	222	1,239	15
	2019	5,964	353	706	4,289	149	1,173	14
	2020	2,926	122	599	1,832	-62	678	8
	2021	3,306	207	46	2,610	-38	895	11
Turkmenistan	2018	508	..	..	385	..	122	20
	2019	377	..	..	332	..	45	7
	2020	101	..	..	74	..	26	4
	2021	63	..	..	32	..	31	5
United Arab Emirates	2018	12,931	1,684	8,476	6,827	..	-689	-75
	2019	11,829	..	4,292	7,173	..	364	40
	2020	8,636	..	3,889	4,438	..	309	33
	2021	9,852	..	4,497	4,997	..	359	38
Uzbekistan	2018	193	0	..	*90	..	103	3
	2019	157	3	51	*133	-4	-19	-1
	2020	124	3	17	*111	..	-1	0
	2021	118	..	..	92	3	24	1
Viet Nam	2018	444	2,542	658	1,129	243	956	10
	2019	559	2,051	716	1,277	-30	647	7
	2020	699	1,179	605	567	..	706	7
	2021	303	652	434	464	-184	241	2
Yemen	2018	101	..	96	6	..	0	0
	2019	94	..	88	6	..	0	0
	2020	66	..	60	5	..	0	0
	2021	57	..	52	5	..	0	0

Table 21

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
Europe	**2018**	**52,839**	**39,115**	**21,779**	**59,565**	**298**	**10,312**	**14**
	2019	**52,792**	**40,153**	**21,498**	**60,442**	**623**	**10,384**	**14**
	2020	**29,557**	**24,404**	**15,097**	**27,792**	**1,332**	**9,741**	**13**
	2021	**32,039**	**24,593**	**16,217**	**32,156**	**-2,663**	**10,921**	**15**
Albania	2018	..	16	..	6	9	1	0
	2019	..	32	..	18	11	3	1
	2020	..	28	..	16	12	0	0
	2021	..	32	..	16	16	0	0
Austria	2018	761	84	20	803	-8	30	3
	2019	894	52	29	928	-37	25	3
	2020	363	55	9	308	56	46	5
	2021	344	40	5	390	-26	16	2
Belarus	2018	370	18	210	144	16	18	2
	2019	463	23	297	186	-12	15	2
	2020	225	20	123	106	1	15	2
	2021	225	20	123	123	..	-1	0
Belgium	2018	1,842	1,627	1,591	1,642	144	92	8
	2019	2,195	1,427	2,126	1,660	58	-221	-19
	2020	830	957	1,101	1,138	113	-565	-49
	2021	712	1,062	640	1,436	-134	-167	-14
Bosnia and Herzegovina	2018	..	7	..	7	..	0	0
	2019	..	9	..	9	..	0	0
	2020	..	4	..	4	0	0	0
	2021	..	14	..	14	1	0	0
Bulgaria	2018	259	24	18	249	-3	20	3
	2019	232	34	8	236	7	15	2
	2020	138	15	4	135	-2	14	2
	2021	177	6	16	159	-7	15	2
Croatia	2018	192	26	10	176	22	10	2
	2019	158	48	16	190	-10	10	2
	2020	58	1	2	51	0	5	1
	2021	80	13	2	94	-10	7	2
Czechia	2018	181	257	4	396	..	38	4
	2019	216	257	8	405	14	46	4
	2020	48	101	..	110	-6	45	4
	2021	65	98	2	119	-7	49	5
Denmark	2018	113	944	57	984	-34	49	9
	2019	121	1,012	12	1,006	64	50	9
	2020	79	533	83	320	151	57	10
	2021	92	324	191	411	-235	48	8
Estonia	2018	..	71	2	68	..	1	1
	2019	..	68	..	67	..	1	1
	2020	..	25	..	23	..	1	1
	2021	..	45	..	42	1	2	1
Finland	2018	794	166	2	753	16	189	34
	2019	750	259	1	812	-8	204	37
	2020	302	196	1	274	18	205	37
	2021	407	85	1	268	-37	260	47
France	2018	4,186	5,761	1,944	5,758	183	2,063	31
	2019	3,889	6,053	1,745	6,048	-89	2,238	34
	2020	1,481	4,044	1,489	2,594	-9	1,452	22
	2021	1,105	4,998	1,708	2,626	43	1,727	26

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
Germany	2018	5,101	6,547	1,356	9,611	-70	751	9
	2019	5,077	6,797	1,401	9,532	120	821	10
	2020	2,519	3,033	687	4,408	19	438	5
	2021	2,892	4,007	960	5,887	-224	276	3
Gibraltar	2018	..	7	..	7	..	0	0
	2019	..	8	..	8	..	0	0
	2020	..	4	..	4	..	0	0
	2021	..	6	..	6	..	0	0
Greece	2018	3,136	51	1,694	1,061	86	347	33
	2019	2,813	150	1,559	1,101	-63	367	35
	2020	1,638	267	1,178	346	7	374	36
	2021	1,902	507	1,420	678	-52	362	35
Hungary	2018	297	1	22	267	-1	10	1
	2019	300	18	39	270	-1	10	1
	2020	123	1	..	98	15	11	1
	2021	141	1	5	119	-1	19	2
Iceland	2018	..	442	..	408	26	9	25
	2019	..	290	..	303	-22	9	24
	2020	..	84	..	83	-4	5	12
	2021	..	139	..	131	1	7	20
Ireland	2018	..	1,464	148	1,042	-78	351	73
	2019	..	1,491	60	1,054	76	300	61
	2020	..	976	..	376	214	386	78
	2021	..	717	134	421	-128	290	58
Italy	2018	2,770	2,336	337	3,734	75	961	16
	2019	2,706	2,563	333	3,864	62	1,010	17
	2020	1,289	793	55	1,456	-46	618	10
	2021	1,422	692	29	1,451	-70	704	12
Kosovo	2018	..	3	..	3	..	0	0
	2019	..	2	..	2	..	0	0
	2020	..	2	..	2	..	0	0
	2021	..	2	..	2	..	0	0
Latvia	2018	..	150	0	149	0	1	1
	2019	..	154	..	152	0	2	1
	2020	..	59	..	56	2	1	0
	2021	..	75	..	76	-2	1	1
Lithuania	2018	955	38	253	122	-8	625	217
	2019	996	45	264	119	3	655	230
	2020	878	0	103	52	-9	732	260
	2021	770	1	138	60	9	564	203
Luxembourg	2018	..	598	..	596	1	0	0
	2019	..	582	..	583	-2	0	0
	2020	..	531	..	531	0	0	0
	2021	..	606	..	606	0	0	0
Malta	2018	..	143	..	153	-10	1	1
	2019	..	174	..	160	13	1	1
	2020	..	51	..	58	-7	1	1
	2021	..	73	..	75	-3	1	1
Montenegro	2018	..	47	21	26	..	0	0
	2019	..	49	28	21	..	0	0
	2020	..	14	10	5	-1	0	0
	2021	..	27	15	12	..	0	0

Table 21

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
Netherlands (Kingd. of the)	2018	8,929	3,342	8,202	3,909	29	130	8
	2019	8,810	3,445	8,159	3,823	197	76	4
	2020	4,521	4,028	5,983	2,132	10	425	24
	2021	4,381	4,457	5,537	2,345	-230	1,187	68
North Macedonia	2018	..	57	30	..	1	27	13
	2019	..	57	30	..	1	27	13
	2020	..	31	15	..	0	15	7
	2021	..	31	15	..	-1	16	8
Norway	2018	778	230	1	555	38	413	78
	2019	655	250	11	534	5	355	66
	2020	371	228	66	168	8	356	66
	2021	465	201	232	164	-50	321	59
Poland	2018	1,339	31	343	980	15	32	1
	2019	1,355	24	284	1,048	14	33	1
	2020	616	0	179	445	-26	18	0
	2021	758	3	177	549	5	30	1
Portugal	2018	1,432	133	22	1,328	36	180	17
	2019	1,346	253	16	1,420	-37	200	19
	2020	588	3	1	509	-39	120	12
	2021	662	150	2	642	43	125	12
Republic of Moldova	2018	..	55	..	54	1	0	0
	2019	..	49	..	48	1	0	0
	2020	..	16	..	17	-1	0	0
	2021	..	41	..	40	0	0	0
Romania	2018	418	78	326	119	3	49	2
	2019	512	39	370	131	-6	56	3
	2020	204	33	162	41	-2	35	2
	2021	231	66	195	72	-10	41	2
Russian Federation	2018	12,982	15	2,670	5,578	..	4,749	33
	2019	13,176	30	2,405	5,702	..	5,099	35
	2020	10,934	29	1,972	4,674	..	4,317	30
	2021	12,886	29	2,384	5,558	..	4,973	34
Serbia	2018	190	3	52	135	6	0	0
	2019	155	21	39	138	-1	0	0
	2020	88	1	15	77	-2	0	0
	2021	120	5	17	109	-2	0	0
Slovakia	2018	95	2	52	46	-1	0	0
	2019	72	5	33	44	..	0	0
	2020	33	6	11	28	..	0	0
	2021	37	2	17	22	..	0	0
Slovenia	2018	..	232	203	34	-5	0	0
	2019	..	310	265	26	18	0	0
	2020	..	125	93	10	23	0	0
	2021	..	31	61	10	-41	0	0
Spain	2018	381	1,802	528	4,531	8	-2,884	-62
	2019	454	1,680	401	4,643	-45	-2,865	-61
	2020	155	1,231	519	1,496	338	-967	-20
	2021	316	702	789	1,754	-451	-1,074	-23
Sweden	2018	204	1,042	92	913	14	227	22
	2019	259	985	147	867	26	204	20
	2020	122	655	42	333	209	192	19
	2021	16	169	232	348	-404	9	1

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
Switzerland	2018	5	1,858	..	1,795	-7	75	9
	2019	3	1,937	..	1,813	45	83	10
	2020	9	803	..	665	94	54	6
	2021	..	733	0	751	-45	27	3
United Kingdom	2018	5,129	9,405	1,572	11,424	-206	1,744	26
	2019	5,185	9,473	1,414	11,470	220	1,554	23
	2020	1,943	5,423	1,193	4,643	197	1,332	20
	2021	1,834	4,383	1,172	4,572	-611	1,083	16
Latin America & Carib.	**2018**	**13,246**	**8,029**	**1,694**	**12,310**	**-216**	**7,487**	**12**
	2019	**12,134**	**8,383**	**1,135**	**13,525**	**-324**	**6,181**	**10**
	2020	**6,346**	**4,019**	**514**	**6,237**	**-108**	**3,721**	**6**
	2021	**8,301**	**5,645**	**326**	**8,435**	**266**	**4,918**	**8**
Anguilla	2018	..	*5	..	*5	..	0	0
	2019	..	*6	..	*6	..	0	0
	2020	..	*2	..	*2	..	0	0
	2021	..	*7	..	*7	..	0	0
Antigua and Barbuda	2018	..	*50	..	*48	..	*2	*20
	2019	..	*50	..	48	..	*2	*20
	2020	..	*48	..	*46	..	*2	*18
	2021	..	*49	..	*47	..	*2	*18
Argentina	2018	1,461	167	3	893	-8	740	17
	2019	1,466	221	5	882	-11	811	18
	2020	520	25	2	377	-24	190	4
	2021	592	0	12	380	-3	204	4
Aruba	2018	..	*89	..	*89	..	0	0
	2019	..	*83	..	*83	..	0	0
	2020	..	*79	..	*79	..	0	0
	2021	..	*86	..	*86	..	0	0
Bahamas	2018	..	282	..	*258	..	24	59
	2019	..	302	..	*273	..	30	73
	2020	..	268	..	*257	..	11	26
	2021	..	399	..	*379	..	20	49
Barbados	2018	..	*128	..	*128	..	0	0
	2019	..	*127	..	*127	..	0	0
	2020	..	*62	..	*62	..	0	0
	2021	..	*70	..	*70	..	0	0
Belize	2018	..	15	..	14	..	0	1
	2019	..	25	..	25	..	0	1
	2020	..	25	..	24	..	0	1
	2021	..	32	..	31	..	0	1
Bolivia (Plur. State of)	2018	179	..	..	64	2	113	10
	2019	177	..	..	64	6	108	9
	2020	85	..	..	26	2	56	5
	2021	111	..	..	29	-5	87	7
Bonaire, St Eustatius, Saba	2018	..	*3	..	*3	..	0	0
	2019	..	*3	..	*3	..	0	0
	2020	..	*2	..	*2	..	0	0
	2021	..	*2	..	*2	..	0	0
Brazil	2018	5,200	730	366	2,392	-205	3,377	16
	2019	4,916	883	88	2,317	90	3,304	16
	2020	2,703	290	144	976	-31	1,904	9
	2021	3,260	295	0	1,047	57	2,452	11

Table 21

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
Cayman Islands	2018	..	38	..	37	..	2	30
	2019	..	35	..	34	..	2	27
	2020	..	16	..	15	..	1	12
	2021	..	8	..	8	..	0	6
Chile	2018	635	610	..	636	-21	630	34
	2019	880	472	..	721	10	619	33
	2020	491	213	..	386	-20	338	18
	2021	365	463	..	429	-2	401	21
Colombia	2018	1,227	48	11	..	..	1,263	26
	2019	1,144	66	..	1,326	..	-116	-2
	2020	876	35	..	590	..	320	6
	2021	1,174	17	..	847	..	343	7
Costa Rica	2018	..	217	..	209	-7	15	3
	2019	..	248	..	224	6	19	4
	2020	..	119	..	97	6	16	3
	2021	..	181	..	172	-2	11	2
Cuba	2018	66	474	*385	75	..	80	7
	2019	83	369	*293	82	..	77	7
	2020	37	240	*80	122	..	75	7
	2021	37	177	*67	87	..	60	5
Curaçao	2018	215	74	213	76	..	0	0
	2019	0	73	0	73	..	0	0
	2020	..	36	..	36	..	0	0
	2021	..	66	..	66	..	0	0
Dominica	2018	..	*1	..	*1	..	0	0
	2019	..	*1	..	*1	..	0	0
	2020	..	*1	..	*1	..	0	0
	2021	..	*1	..	*1	..	0	0
Dominican Republic	2018	189	376	..	544	-1	23	2
	2019	193	316	..	457	-1	54	5
	2020	86	142	..	204	-1	24	2
	2021	158	227	..	355	-1	32	3
Ecuador	2018	365	..	..	251	-3	118	7
	2019	360	..	..	258	-10	112	6
	2020	192	162	..	131	5	218	12
	2021	277	..	..	180	0	96	5
El Salvador	2018	..	181	7	174	..	0	0
	2019	..	187	3	183	..	0	0
	2020	..	69	0	68	..	0	0
	2021	..	129	1	127	..	0	0
Falkland Is. (Malvinas)	2018	..	0	..	..	..	0	55
	2019	..	0	..	..	..	0	53
	2020	..	0	..	..	..	0	35
	2021	..	0	..	..	..	0	52
Grenada	2018	..	8	..	8	..	0	0
	2019	..	9	..	9	..	0	0
	2020	..	8	..	8	..	0	0
	2021	..	9	..	9	..	0	0
Guatemala	2018	..	90	6	105	-23	2	0
	2019	..	105	4	101	..	0	0
	2020	..	53	*4	49	..	0	0
	2021	..	86	*4	82	..	0	0

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
Guyana	2018	..	18	..	17	..	1	1
	2019	..	17	..	17	..	1	1
	2020	..	17	11	5	..	1	2
	2021	..	*23	14	*8	..	*2	*2
Haiti	2018	..	28	..	22	..	5	0
	2019	..	27	..	22	..	5	0
	2020	..	27	..	22	..	5	0
	2021	..	26	..	21	..	5	0
Honduras	2018	..	56	..	..	..	56	6
	2019	..	62	..	..	..	62	6
	2020	..	27	0	..	1	26	3
	2021	..	48	..	..	-1	49	5
Jamaica	2018	61	148	..	210	-4	3	1
	2019	65	162	..	228	-5	4	1
	2020	41	39	..	75	0	4	2
	2021	33	79	..	105	4	4	1
Mexico	2018	1,589	2,534	2	3,917	259	-55	0
	2019	1,234	2,649	..	3,962	-323	244	2
	2020	796	1,217	..	1,769	13	231	2
	2021	1,297	2,037	..	2,807	29	498	4
Nicaragua	2018	18	1	..	16	-1	3	0
	2019	17	1	..	16	0	2	0
	2020	7	1	..	5	0	3	0
	2021	11	1	..	9	0	2	0
Panama	2018	..	957	..	592	-180	544	131
	2019	..	831	..	597	-50	285	67
	2020	..	244	..	208	-31	67	16
	2021	..	510	..	329	-93	274	63
Paraguay	2018	..	74	..	72	-1	3	0
	2019	..	74	..	71	0	4	1
	2020	..	28	..	25	0	3	0
	2021	..	37	..	34	..	3	0
Peru	2018	625	412	0	677	-6	366	11
	2019	686	396	..	706	-7	382	12
	2020	206	160	..	252	-24	138	4
	2021	619	266	..	301	282	302	9
Sint Maarten (Dutch part)	2018	..	*48	..	*48	..	0	0
	2019	..	*48	..	*48	..	0	0
	2020	..	*42	..	*42	..	0	0
	2021	..	*48	..	*48	..	0	0
St. Lucia	2018	..	30	..	29	..	2	8
	2019	..	*30	..	*29	..	*2	*8
	2020	..	*26	..	*24	..	*2	*11
	2021	..	*27	..	*25	..	*2	*11
Suriname	2018	..	44	..	*41	..	4	6
	2019	..	44	..	*39	..	5	7
	2020	..	37	..	*33	..	4	7
	2021	..	42	..	37	..	5	8
Trinidad and Tobago	2018	397	..	148	181	-14	82	54
	2019	..	358	101	170	-27	113	75
	2020	..	176	50	81	..	45	30
	2021	..	138	50	72	..	16	10

Table 21

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
Turks and Caicos Islands	2018	..	*25	..	*25	..	0	0
	2019	..	*25	..	*25	..	0	0
	2020	..	*24	..	*24	..	0	0
	2021	..	*25	..	*25	..	0	0
Uruguay	2018	105	2	..	105	-3	5	1
	2019	100	1	..	97	-1	5	2
	2020	42	2	..	42	-4	5	1
	2021	45	3	..	42	1	4	1
Venezuela (Bolivar. Rep.)	2018	916	69	553	353	..	79	3
	2019	814	73	641	199	..	46	2
	2020	264	58	222	69	..	30	1
	2021	322	32	178	133	..	43	2
Northern America	**2018**	**89,096**	**9,188**	**11,593**	**28,321**	**139**	**58,231**	**158**
	2019	**88,736**	**11,138**	**11,545**	**28,772**	**-47**	**59,605**	**160**
	2020	**50,012**	**8,419**	**5,089**	**16,936**	**-80**	**36,486**	**98**
	2021	**63,934**	**8,663**	**5,960**	**20,968**	**-460**	**46,129**	**123**
Bermuda	2018	..	*16	..	*16	..	0	0
	2019	..	*16	..	*16	..	0	0
	2020	..	*14	..	*14	..	0	0
	2021	..	*15	..	*15	..	0	0
Canada	2018	5,540	2,895	1,144	4,667	64	2,560	69
	2019	5,560	3,146	1,074	4,716	-15	2,931	78
	2020	2,642	1,095	430	2,046	-42	1,302	34
	2021	3,116	905	410	2,050	2	1,558	41
Greenland	2018	..	19	..	..	..	19	342
	2019	..	19	..	..	..	19	335
	2020	..	6	..	..	*-5	11	191
	2021	..	*13	..	..	..	*13	*235
United States	2018	83,556	6,258	10,449	23,638	75	55,652	168
	2019	83,176	7,958	10,470	24,040	-32	56,655	169
	2020	47,370	7,304	4,659	14,875	-34	35,173	105
	2021	60,818	7,730	5,550	18,903	-463	44,558	132
Oceania	**2018**	**4,422**	**5,540**	**249**	**5,872**	**171**	**3,670**	**86**
	2019	**4,545**	**5,233**	**160**	**6,151**	**109**	**3,358**	**78**
	2020	**2,979**	**4,228**	**172**	**4,274**	**-162**	**2,923**	**67**
	2021	**1,253**	**2,457**	**105**	**1,613**	**-50**	**2,042**	**46**
American Samoa	2018	..	*20	..	*17	..	*3	*62
	2019	..	*20	..	*17	..	*3	*63
	2020	..	*18	..	*15	..	*3	*65
	2021	..	*18	..	*15	..	*3	*67
Australia	2018	3,041	4,857	114	4,464	25	3,294	132
	2019	3,162	4,618	16	4,750	183	2,832	112
	2020	2,326	3,840	124	3,641	-181	2,582	101
	2021	668	2,123	1	1,189	-18	1,619	62
Cook Islands	2018	..	*9	..	*8	..	*2	*110
	2019	..	*9	..	*8	..	*2	*112
	2020	..	*3	..	*2	..	*2	*94
	2021	..	*3	..	*1	..	*2	*108
Fiji	2018	..	*203	*135	*31	*25	*13	*14
	2019	..	*197	*144	*31	*10	*13	*14
	2020	..	*69	*48	*10	..	*10	*11
	2021	..	*85	*60	*12	..	*12	*13

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
French Polynesia	2018	..	19	..	..	3	16	53
	2019	..	21	..	..	5	16	54
	2020	..	11	..	..	0	11	35
	2021	..	16	..	..	2	14	46
Kiribati	2018	..	*1	..	*1	..	*1	*7
	2019	..	*1	..	*1	..	*1	*7
	2020	..	*1	..	*1	..	*1	*6
	2021	..	*1	..	*1	..	*1	*6
Marshall Islands	2018	..	*2	..	*2	..	0	0
	2019	..	*2	..	*2	..	0	0
	2020	..	*2	..	*2	..	0	0
	2021	..	*2	..	*2	..	0	0
Micronesia (Fed. States of)	2018	..	*8	..	*7	..	*1	*10
	2019	..	*8	..	*7	..	*1	*10
	2020	..	*8	..	*7	..	*1	*10
	2021	..	*8	..	*7	..	*1	*10
Nauru	2018	..	*4	..	*4	..	0	0
	2019	..	*4	..	*4	..	0	0
	2020	..	*3	..	*3	..	0	0
	2021	..	*4	..	*4	..	0	0
New Caledonia	2018	..	32	..	26	1	5	18
	2019	..	30	..	27	-3	5	19
	2020	..	18	..	12	0	5	17
	2021	..	13	..	10	-2	5	16
New Zealand	2018	1,325	279	..	1,223	118	263	54
	2019	1,330	201	..	1,222	-87	396	80
	2020	638	108	..	497	18	230	46
	2021	531	78	44	290	-33	307	60
Niue	2018	..	*1	..	0	..	0	*23
	2019	..	*1	..	0	..	0	*14
	2020	..	*1	..	0	..	0	*13
	2021	..	*1	..	*1	..	0	*13
Northern Mariana Islands	2018	..	*7	..	*5	..	*2	*40
	2019	..	*7	..	*5	..	*2	*40
	2020	..	*4	..	*3	..	*1	*20
	2021	..	*5	..	*4	..	*1	*20
Palau	2018	..	*7	..	*7	..	0	0
	2019	..	*7	..	*7	..	0	0
	2020	..	*6	..	*6	..	0	0
	2021	..	*6	..	*6	..	0	0
Papua New Guinea	2018	56	71	..	59	-1	69	7
	2019	53	89	..	*56	0	86	9
	2020	15	121	..	*60	0	76	8
	2021	*54	*80	..	*58	..	*76	*8
Solomon Islands	2018	..	*5	..	*4	..	*1	*1
	2019	..	*5	..	*4	..	*1	*1
	2020	..	*4	..	*3	..	*1	*1
	2021	..	*4	..	*3	..	*1	*1
Tonga	2018	..	4	..	*4	..	0	2
	2019	..	0	..	0	..	0	1
	2020	..	1	..	0	..	0	3
	2021	..	0	..	0	..	0	2

Table 21

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
Vanuatu	2018	..	*11	..	*11	..	0	0
	2019	..	*11	..	*11	..	0	0
	2020	..	*10	..	*10	..	0	0
	2021	..	*10	..	*10	..	0	0
Wallis and Futuna Is.	2018	..	*1	..	1	..	0	0
	2019	..	*1	..	1	..	0	0
	2020	..	*1	..	1	..	0	0
	2021	..	*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 60: Production of gas oil/diesel oil by region, 1990-2021

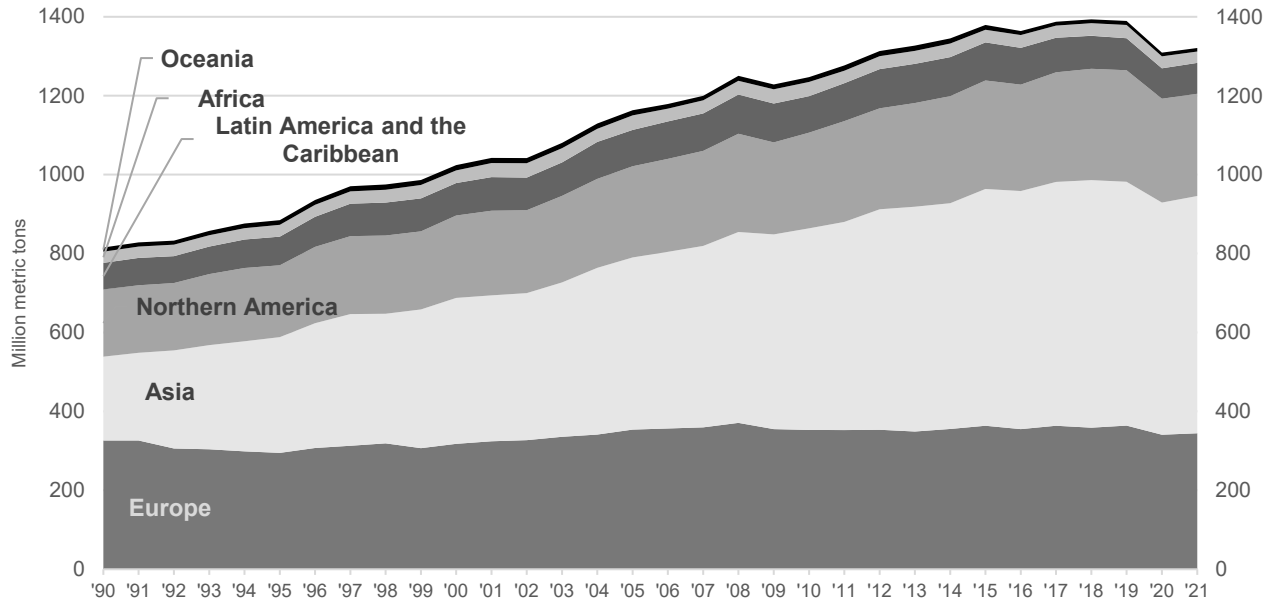


Figure 61: Major gas oil/diesel oil producing countries, 2021

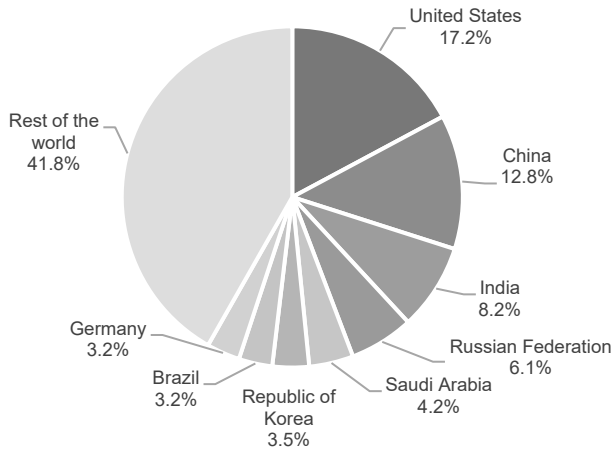


Figure 62: Major gas oil/diesel oil consuming countries, 2021

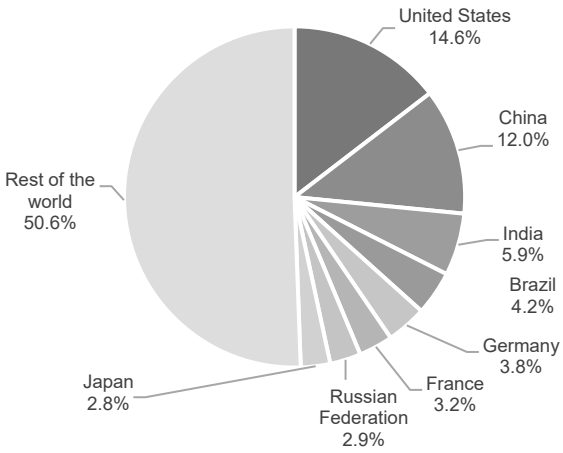


Table 22

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	**2018**	**1,393,476**	**387,596**	**416,165**	**41,736**	**-617**	**1,323,788**	**172**
	2019	**1,389,181**	**386,249**	**426,544**	**38,315**	**-3,581**	**1,314,153**	**169**
	2020	**1,309,067**	**351,491**	**388,049**	**38,139**	**11,700**	**1,222,671**	**156**
	2021	**1,320,679**	**373,109**	**399,792**	**37,996**	**-24,608**	**1,280,608**	**162**
Africa	**2018**	**31,639**	**50,805**	**3,354**	**2,237**	**109**	**76,744**	**59**
	2019	**33,551**	**53,529**	**2,661**	**2,231**	**-281**	**82,468**	**62**
	2020	**30,428**	**46,396**	**2,001**	**2,466**	**-187**	**72,544**	**53**
	2021	**28,728**	**53,091**	**1,359**	**2,488**	**-155**	**78,128**	**56**
Algeria	2018	10,189	247	0	58	188	10,190	243
	2019	9,590	913	0	10	-23	10,516	246
	2020	9,503	285	620	41	-45	9,172	211
	2021	9,730	0	0	48	167	9,515	215
Angola	2018	436	2,179	26	..	99	2,491	80
	2019	615	2,042	11	..	1	2,644	82
	2020	548	1,147	18	..	1	1,677	50
	2021	481	1,707	13	..	..	2,175	63
Benin	2018	..	664	..	..	-7	671	56
	2019	..	407	..	0	-10	417	34
	2020	..	403	..	1	0	402	32
	2021	..	393	..	0	-30	423	33
Botswana	2018	..	501	..	..	..	501	205
	2019	..	453	..	..	..	453	181
	2020	..	407	..	..	..	407	160
	2021	..	425	..	..	..	425	164
Burkina Faso	2018	..	573	..	..	-6	579	28
	2019	..	605	..	..	-6	611	29
	2020	..	*587	..	..	-6	*593	*28
	2021	..	*616	..	..	*-3	*619	*28
Burundi	2018	..	*78	..	..	..	*78	*7
	2019	..	*81	..	..	..	*81	*7
	2020	..	*99	..	..	..	*99	*8
	2021	..	*94	..	..	..	*94	*7
Cabo Verde	2018	..	*111	..	*34	..	*77	*135
	2019	..	*116	..	*32	..	*84	*145
	2020	..	*95	..	*25	..	*70	*121
	2021	..	*102	..	*25	..	*77	*131
Cameroon	2018	427	506	99	..	..	833	33
	2019	221	648	51	..	..	817	32
	2020	..	785	..	..	..	785	30
	2021	..	771	..	..	..	771	28
Central African Rep.	2018	..	*42	..	..	..	*42	*8
	2019	..	*43	..	..	..	*43	*8
	2020	..	*44	..	..	..	*44	*8
	2021	..	*45	..	..	..	*45	*8
Chad	2018	*348	..	..	..	..	*348	*22
	2019	*353	..	..	..	..	*353	*22
	2020	*368	..	..	..	..	*368	*22
	2021	*407	..	..	..	..	*407	*24
Comoros	2018	..	*50	..	..	..	*50	*65
	2019	..	*55	..	..	..	*55	*70
	2020	..	*67	..	..	..	*67	*83
	2021	..	*89	..	..	..	*89	*108

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	2018	217	79	..	..	..	296	54
	2019	221	80	..	..	..	301	54
	2020	210	60	..	..	..	270	47
	2021	218	64	..	..	..	282	48
Côte d'Ivoire	2018	1,241	..	184	74	..	983	39
	2019	1,411	..	256	79	..	1,076	41
	2020	1,342	..	257	80	..	1,005	37
	2021	1,648	..	425	84	..	1,139	41
Dem. Rep. of the Congo	2018	..	656	..	..	..	656	8
	2019	..	668	..	..	..	668	7
	2020	..	707	..	..	..	707	8
	2021	..	683	..	..	..	683	7
Djibouti	2018	..	89	..	*10	..	79	74
	2019	..	89	..	*10	..	79	73
	2020	..	70	..	*10	..	60	55
	2021	..	*76	..	*11	..	*65	*59
Egypt	2018	7,640	6,533	713	62	..	13,398	129
	2019	8,046	5,751	..	58	..	13,740	130
	2020	9,901	2,300	69	165	..	11,967	111
	2021	8,856	5,051	..	148	..	13,759	126
Equatorial Guinea	2018	..	*149	..	..	..	*149	*99
	2019	..	*165	..	..	..	*165	*106
	2020	..	*132	..	..	..	*132	*83
	2021	..	*130	..	..	..	*130	*79
Eritrea	2018	..	96	..	..	..	96	28
	2019	..	99	..	..	..	99	28
	2020	..	98	..	..	..	98	28
	2021	..	101	..	..	..	101	28
Eswatini	2018	..	148	..	..	..	148	128
	2019	..	*157	..	..	..	*157	*135
	2020	..	*163	..	..	..	*163	*138
	2021	..	*142	..	..	..	*142	*119
Ethiopia	2018	..	2,716	..	..	27	2,689	24
	2019	..	3,000	..	..	..	3,000	26
	2020	..	2,535	..	..	9	2,526	22
	2021	..	2,597	..	..	..	2,597	22
Gabon	2018	254	139	13	61	..	319	145
	2019	203	142	10	74	..	261	116
	2020	241	172	12	70	..	332	145
	2021	304	170	16	64	..	394	168
Gambia	2018	..	111	*1	..	..	110	45
	2019	..	*124	*1	..	..	*123	*49
	2020	..	*121	*1	..	..	*120	*47
	2021	..	*127	*1	..	..	*126	*48
Ghana	2018	114	1,753	35	10	..	1,821	59
	2019	198	1,742	117	7	31	1,784	57
	2020	150	1,937	5	5	93	1,983	62
	2021	70	1,820	4	7	-175	2,055	63
Guinea	2018	..	522	..	..	..	522	42
	2019	..	597	..	..	..	597	46
	2020	..	714	..	..	..	714	54
	2021	..	*725	..	..	..	*725	*54

Table 22

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	2018	..	*54	..	..	..	*54	*28
	2019	..	*55	..	..	..	*55	*28
	2020	..	*49	..	..	..	*49	*24
	2021	..	*50	..	..	..	*50	*24
Kenya	2018	..	2,324	..	3	..	2,321	46
	2019	..	2,548	..	*3	..	2,545	50
	2020	..	2,433	..	*3	..	2,430	47
	2021	..	2,569	..	4	..	2,565	48
Lesotho	2018	..	87	..	..	..	87	39
	2019	..	99	..	..	..	99	45
	2020	..	74	..	..	..	74	33
	2021	..	92	..	..	..	92	40
Liberia	2018	..	62	..	*4	*-60	*118	*24
	2019	..	156	..	*4	29	122	24
	2020	..	92	..	*5	-38	125	25
	2021	..	28	..	*5	-91	114	22
Libya	2018	1,563	1,816	..	..	..	3,378	522
	2019	1,116	2,336	..	..	..	3,452	525
	2020	787	1,453	..	..	..	2,240	337
	2021	1,011	1,303	..	..	..	2,313	343
Madagascar	2018	..	456	..	2	*-23	477	18
	2019	..	550	..	2	..	548	20
	2020	..	453	..	*2	*-17	469	17
	2021	..	533	..	*3	*-19	550	19
Malawi	2018	..	238	..	..	*-44	282	15
	2019	..	223	..	..	-38	262	14
	2020	..	270	..	..	48	222	11
	2021	..	218	..	..	-30	248	12
Mali	2018	..	916	..	..	..	916	46
	2019	..	951	..	..	0	951	46
	2020	..	1,087	..	..	0	1,087	51
	2021	..	*1,098	..	..	0	*1,098	*50
Mauritania	2018	..	1,033	..	..	..	1,033	242
	2019	..	1,097	..	..	..	1,097	250
	2020	..	1,066	..	..	..	1,066	237
	2021	..	*1,022	..	..	..	*1,022	*221
Mauritius	2018	..	330	..	146	-31	215	166
	2019	..	334	..	141	-29	222	171
	2020	..	258	..	121	-48	184	142
	2021	..	313	..	111	12	190	146
Morocco	2018	..	5,907	..	23	-149	6,033	165
	2019	..	6,056	..	23	-280	6,313	171
	2020	..	5,316	..	23	-243	5,536	149
	2021	..	6,203	..	23	-12	6,192	164
Mozambique	2018	..	1,014	..	8	..	1,006	34
	2019	..	1,011	..	9	..	1,002	33
	2020	..	816	..	5	..	811	26
	2021	..	1,118	..	5	..	1,113	35
Namibia	2018	..	759	..	..	..	759	316
	2019	..	755	..	..	..	755	309
	2020	..	695	..	..	..	695	279
	2021	..	711	..	..	..	711	281

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	2018	492	3	221	..	*36	238	11
	2019	382	5	69	..	..	319	14
	2020	455	23	223	..	-10	264	11
	2021	425	..	123	..	..	302	12
Nigeria	2018	347	3,427	..	103	..	3,672	19
	2019	81	4,186	..	106	..	4,160	20
	2020	0	4,787	..	80	..	4,707	23
	2021	62	3,786	..	66	..	3,782	18
Rwanda	2018	..	163	..	..	..	163	13
	2019	..	262	..	..	*100	162	13
	2020	..	178	..	..	..	178	14
	2021	..	224	..	..	..	224	17
Sao Tome and Principe	2018	..	32	..	..	..	32	150
	2019	..	32	..	..	..	32	150
	2020	..	*31	..	..	..	*31	*140
	2021	..	*32	..	..	..	*32	*143
Senegal	2018	576	1,002	*356	*130	*124	968	62
	2019	522	1,279	*590	194	-21	1,038	65
	2020	472	506	..	233	-4	749	46
	2021	520	643	..	184	0	978	58
Seychelles	2018	..	202	..	*141	0	61	592
	2019	..	183	..	*110	0	73	701
	2020	..	*160	..	*80	*20	*60	*569
	2021	..	*178	..	*70	*35	*73	*686
Sierra Leone	2018	..	146	..	..	*-5	151	19
	2019	..	155	..	..	*-1	156	19
	2020	..	174	..	..	*4	170	21
	2021	..	192	..	..	..	192	23
Somalia	2018	..	*126	..	*16	..	*110	*7
	2019	..	*126	..	*16	..	*110	*7
	2020	..	*111	..	*6	..	*105	*6
	2021	..	*120	..	*14	..	*106	*6
South Africa	2018	5,417	5,311	1,603	1,310	..	7,815	136
	2019	8,539	5,096	1,554	1,312	..	10,769	185
	2020	4,258	6,118	795	1,497	..	8,083	137
	2021	3,227	8,492	778	1,576	..	9,366	158
South Sudan	2018	..	433	..	..	..	433	42
	2019	..	435	..	..	..	435	42
	2020	..	416	..	..	..	416	39
	2021	110	325	..	..	..	435	40
St. Helena and Depend.	2018	..	3	..	..	..	3	595
	2019	..	4	..	..	..	4	670
	2020	..	3	..	..	..	3	525
	2021	..	*3	..	..	..	*3	*563
Sudan	2018	1,696	1,609	103	*28	..	3,173	76
	2019	*1,717	1,556	..	*28	..	*3,245	*75
	2020	1,611	1,368	..	*5	..	2,975	67
	2021	*986	1,785	..	*28	..	2,743	60
Togo	2018	..	173	..	4	-4	173	21
	2019	..	183	..	2	-3	184	22
	2020	..	131	..	2	-2	130	15
	2021	..	201	..	..	..	201	23

Table 22

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	2018	407	1,675	..	10	-36	2,108	177
	2019	41	1,914	..	10	-31	1,976	164
	2020	421	1,462	..	7	46	1,831	151
	2021	657	1,360	..	11	-8	2,015	164
Uganda	2018	..	855	..	..	..	855	21
	2019	..	896	..	..	..	896	21
	2020	..	864	..	..	5	859	19
	2021	..	929	..	..	..	929	20
United Rep. of Tanzania	2018	..	1,511	..	..	..	1,511	26
	2019	..	1,704	..	..	..	1,704	28
	2020	..	1,623	..	..	..	1,623	26
	2021	..	1,811	..	..	..	1,811	28
Zambia	2018	274	421	..	..	..	695	39
	2019	294	575	..	..	..	869	47
	2020	161	829	..	..	..	990	52
	2021	18	1,107	..	..	..	1,125	58
Zimbabwe	2018	..	777	..	..	..	777	52
	2019	..	790	..	..	..	790	51
	2020	..	621	..	..	..	621	40
	2021	..	716	..	..	..	716	45
Asia	**2018**	**627,033**	**104,484**	**197,312**	**9,095**	**2,196**	**522,914**	**114**
	2019	**618,041**	**94,892**	**190,772**	**11,436**	**-2,094**	**512,819**	**111**
	2020	**588,193**	**82,062**	**175,383**	**10,425**	**3,821**	**480,626**	**103**
	2021	**601,411**	**86,512**	**190,097**	**9,396**	**-12,568**	**500,997**	**107**
Afghanistan	2018	*68	373	..	..	*-30	471	13
	2019	*44	761	..	..	*177	628	17
	2020	*18	531	..	..	*-25	574	15
	2021	*19	*510	..	..	*-30	*559	*14
Armenia	2018	..	115	..	..	..	115	40
	2019	..	134	0	..	..	134	47
	2020	..	201	1	..	..	200	71
	2021	..	197	0	..	..	196	70
Azerbaijan	2018	2,148	37	661	43	41	1,440	142
	2019	2,243	1	761	31	-4	1,456	142
	2020	2,181	0	848	32	16	1,286	125
	2021	2,482	..	1,101	28	-10	1,364	132
Bahrain	2018	4,083	..	3,599	..	123	361	243
	2019	4,210	..	3,872	..	17	321	215
	2020	3,947	..	3,668	..	28	251	170
	2021	4,440	..	4,253	..	-107	294	201
Bangladesh	2018	546	3,458	..	..	..	4,004	24
	2019	682	3,411	..	..	..	4,093	25
	2020	488	3,536	..	..	..	4,024	24
	2021	734	3,694	..	..	..	4,428	26
Bhutan	2018	..	139	..	..	..	139	182
	2019	..	135	..	..	..	135	175
	2020	..	95	..	..	..	95	123
	2021	..	99	..	..	..	99	127
Brunei Darussalam	2018	110	182	..	..	-1	293	675
	2019	422	196	235	..	89	294	670
	2020	2,682	67	2,525	..	75	149	338
	2021	2,540	..	2,347	..	-7	200	449

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
Cambodia	2018	..	1,343	..	..	..	1,343	84
	2019	..	1,661	..	..	..	1,661	103
	2020	..	1,770	..	..	..	1,770	108
	2021	..	1,770	..	..	..	1,770	107
China	2018	183,601	711	18,532	375	90	165,316	117
	2019	173,083	1,190	21,383	763	-959	153,087	108
	2020	165,299	1,191	19,760	536	1,965	144,229	101
	2021	168,470	762	17,205	632	-1,978	153,373	108
China, Hong Kong SAR	2018	..	6,420	115	3,529	179	2,597	347
	2019	..	6,461	88	3,356	354	2,663	355
	2020	..	4,712	49	1,879	222	2,562	342
	2021	..	3,393	49	1,117	69	2,158	288
China, Macao SAR	2018	..	160	..	64	-2	98	151
	2019	..	140	..	44	1	95	143
	2020	..	77	..	4	1	72	106
	2021	..	86	..	3	2	81	118
Cyprus	2018	3	775	..	118	-14	675	554
	2019	4	818	..	124	-6	704	573
	2020	13	928	..	119	34	789	637
	2021	13	848	33	113	-28	743	597
Georgia	2018	10	563	4	2	18	549	146
	2019	15	553	0	2	-21	586	155
	2020	12	568	4	4	18	554	147
	2021	18	561	4	3	-12	584	156
India	2018	111,236	555	27,931	..	..	83,860	61
	2019	111,841	2,796	31,653	..	..	82,984	60
	2020	101,170	648	30,576	..	..	71,242	51
	2021	107,980	75	32,407	..	..	75,648	54
Indonesia	2018	17,614	5,735	88	199	125	22,937	86
	2019	17,307	3,818	223	216	127	20,559	76
	2020	16,769	2,714	93	*200	..	19,190	71
	2021	17,883	*2,707	..	*130	..	20,461	75
Iran (Islamic Rep. of)	2018	28,608	..	2,033	251	..	26,325	307
	2019	28,566	..	2,126	251	..	26,188	303
	2020	27,049	..	2,097	251	..	24,701	283
	2021	28,404	..	2,489	251	..	25,664	292
Iraq	2018	5,291	1,389	..	..	..	6,681	165
	2019	5,825	1,515	..	..	..	7,340	177
	2020	5,239	1,413	..	..	..	6,652	156
	2021	4,976	1,067	..	..	..	6,043	139
Israel	2018	4,789	248	2,166	51	26	2,795	331
	2019	5,389	204	2,586	61	116	2,830	329
	2020	4,973	213	2,771	57	24	2,334	267
	2021	5,186	108	2,893	70	-24	2,355	265
Japan	2018	44,587	634	7,901	140	121	37,059	294
	2019	44,301	780	9,050	124	-109	36,016	286
	2020	37,100	1,323	3,478	59	-75	34,959	279
	2021	39,286	1,573	5,340	50	-86	35,555	285
Jordan	2018	738	1,145	..	4	-31	1,910	183
	2019	759	963	..	4	..	1,718	161
	2020	614	910	..	4	..	1,520	139
	2021	650	914	..	4	..	1,560	140

Table 22

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
Kazakhstan	2018	4,664	472	237	2	2	4,895	264
	2019	5,033	249	45	3	64	5,170	276
	2020	4,674	668	130	0	913	4,298	226
	2021	4,980	337	201	0	-805	5,920	308
Korea, Dem.Ppl's.Rep.	2018	191	58	..	..	..	249	10
	2019	191	70	..	..	..	261	10
	2020	191	64	..	..	..	255	10
	2021	191	38	..	..	..	229	9
Korea, Republic of	2018	49,006	241	25,585	1,104	199	22,359	433
	2019	50,065	235	26,201	1,461	-91	22,729	439
	2020	47,829	124	26,763	1,492	-318	20,016	386
	2021	45,938	64	24,290	1,777	70	19,865	383
Kuwait	2018	8,397	..	5,749	82	..	2,567	594
	2019	8,168	..	5,742	80	..	2,347	528
	2020	8,866	..	6,018	87	..	2,761	633
	2021	9,300	..	6,608	80	..	2,612	615
Kyrgyzstan	2018	79	706	1	..	34	750	121
	2019	83	535	17	..	-40	641	101
	2020	58	533	17	..	55	519	81
	2021	97	536	1	..	12	620	95
Lao People's Dem. Rep.	2018	..	850	..	..	..	850	120
	2019	..	*860	..	..	..	*860	*119
	2020	..	*843	..	..	..	*843	*115
	2021	..	*851	..	..	..	*851	*115
Lebanon	2018	..	3,426	..	..	..	3,426	576
	2019	..	3,590	..	..	..	3,590	621
	2020	..	*3,427	..	..	..	*3,427	*605
	2021	..	*2,718	..	..	..	*2,718	*486
Malaysia	2018	10,208	6,751	7,128	99	-80	9,812	303
	2019	9,116	6,124	5,091	133	-1,396	11,412	348
	2020	9,722	2,770	3,808	129	-569	9,124	275
	2021	6,507	5,620	5,251	104	-2,389	9,160	273
Maldives	2018	..	522	..	*50	..	472	963
	2019	..	579	..	*42	..	537	1,064
	2020	..	516	..	*46	..	470	914
	2021	..	599	..	*54	..	545	1,044
Mongolia	2018	..	849	..	..	..	849	268
	2019	..	1,080	..	..	..	1,080	334
	2020	..	1,027	..	..	..	1,027	312
	2021	..	989	..	..	..	989	295
Myanmar	2018	115	4,035	..	1	..	4,149	79
	2019	103	4,184	..	1	..	4,286	81
	2020	94	3,337	..	..	..	3,431	64
	2021	74	2,428	..	..	..	2,502	47
Nepal	2018	..	1,396	..	..	10	1,386	49
	2019	..	1,200	..	..	304	896	31
	2020	..	1,381	..	..	-2	1,383	47
	2021	..	1,403	..	..	..	1,403	47
Oman	2018	3,769	236	1,629	..	..	2,375	516
	2019	3,463	243	1,278	..	..	2,429	528
	2020	3,751	249	1,981	..	..	2,020	445
	2021	4,593	354	2,985	..	..	1,961	434

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
Other Asia	2018	15,976	..	10,448	137	123	5,268	222
	2019	16,497	..	11,035	232	-142	5,372	226
	2020	12,614	..	7,265	155	-186	5,380	226
	2021	13,198	39	7,419	178	159	5,481	230
Pakistan	2018	4,969	3,097	0	6	..	8,060	37
	2019	3,965	3,086	0	..	..	7,051	32
	2020	4,901	3,823	6	2	..	8,716	38
	2021	4,713	5,389	2	2	..	10,099	44
Philippines	2018	4,589	5,364	123	20	183	9,628	89
	2019	3,227	6,841	75	14	136	9,844	89
	2020	2,061	5,806	152	20	-311	8,006	71
	2021	1,717	7,006	0	37	-65	8,752	77
Qatar	2018	2,059	75	3,877	..	-39	-1,703	-616
	2019	1,948	78	2,885	..	0	-859	-306
	2020	1,626	72	2,468	..	..	-770	-279
	2021	2,465	95	4,258	..	..	-1,699	-632
Saudi Arabia	2018	53,377	9,894	41,760	..	..	21,511	614
	2019	52,588	*987	*29,851	..	*-329	24,053	671
	2020	49,260	442	24,834	..	500	24,368	677
	2021	55,489	*4,419	33,403	..	-283	26,788	745
Singapore	2018	11,221	17,248	23,180	2,286	*456	2,548	438
	2019	10,512	17,557	21,021	3,883	*-77	3,242	553
	2020	8,757	19,046	19,740	4,695	*595	2,773	469
	2021	8,902	15,351	18,300	4,082	*-888	2,758	464
Sri Lanka	2018	568	1,483	..	47	-5	2,009	93
	2019	624	1,587	..	79	18	2,116	98
	2020	538	1,192	..	13	-5	1,722	79
	2021	371	1,780	..	13	-77	2,215	102
State of Palestine	2018	..	563	..	..	..	563	117
	2019	..	655	..	..	..	655	133
	2020	..	653	..	..	..	653	130
	2021	..	715	..	..	..	715	139
Syrian Arab Republic	2018	2,138	173	..	258	..	2,053	106
	2019	1,920	237	..	261	..	1,896	94
	2020	2,002	6	..	251	..	1,757	85
	2021	1,936	..	..	246	..	1,690	79
Tajikistan	2018	17	203	..	..	..	220	24
	2019	13	250	..	..	..	262	28
	2020	6	298	..	..	..	304	32
	2021	8	345	..	..	..	353	36
Thailand	2018	23,152	501	4,761	..	551	18,341	258
	2019	20,637	2,042	3,249	..	-212	19,642	275
	2020	25,505	47	4,875	..	391	20,285	284
	2021	18,465	120	5,438	..	-6,407	19,554	273
Timor-Leste	2018	..	130	..	..	..	130	103
	2019	..	161	..	..	..	161	126
	2020	..	155	..	..	..	155	119
	2021	..	150	..	..	..	150	114
Türkiye	2018	9,530	14,719	120	90	-99	24,138	291
	2019	13,938	11,183	1,382	145	-106	23,700	284
	2020	17,160	8,842	2,619	272	135	22,975	273
	2021	17,453	10,945	2,417	301	-214	25,894	305

Table 22

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
Turkmenistan	2018	2,770	..	690	..	..	2,080	343
	2019	2,770	..	690	..	..	2,080	338
	2020	2,770	..	702	..	..	2,068	331
	2021	2,770	..	702	..	..	2,068	326
United Arab Emirates	2018	10,929	603	8,421	93	..	3,017	330
	2019	11,343	158	9,753	81	..	1,667	181
	2020	10,660	158	7,510	76	..	3,231	348
	2021	11,941	158	10,060	80	..	1,959	209
Uzbekistan	2018	1,081	..	..	..	17	1,064	33
	2019	1,030	71	..	..	-3	1,104	33
	2020	954	416	..	..	-3	1,373	41
	2021	799	374	0	..	153	1,021	30
Viet Nam	2018	4,286	6,417	573	..	201	9,928	105
	2019	5,647	5,014	478	..	..	10,183	106
	2020	6,315	4,814	624	..	345	10,160	105
	2021	6,138	4,874	640	..	379	9,994	103
Yemen	2018	507	492	..	46	..	953	31
	2019	469	498	..	47	..	921	29
	2020	328	456	..	43	..	741	23
	2021	287	452	..	42	..	697	21
Europe	**2018**	**358,679**	**144,000**	**141,150**	**20,559**	**-2,635**	**343,606**	**460**
	2019	**363,947**	**149,743**	**157,397**	**11,602**	**2,462**	**342,228**	**457**
	2020	**340,907**	**140,112**	**139,735**	**17,517**	**5,490**	**318,277**	**425**
	2021	**344,299**	**140,398**	**144,171**	**18,053**	**-7,670**	**330,142**	**442**
Albania	2018	229	665	40	31	16	807	281
	2019	206	686	28	22	31	811	282
	2020	110	567	10	31	26	610	213
	2021	120	612	..	29	24	679	238
Andorra	2018	..	138	..	..	..	138	1,845
	2019	..	133	..	..	..	133	1,741
	2020	..	103	..	..	..	103	1,320
	2021	..	109	..	..	..	109	1,375
Austria	2018	4,053	5,065	1,008	13	-25	8,123	919
	2019	4,179	5,176	1,077	14	160	8,104	913
	2020	3,794	4,923	1,017	13	261	7,425	834
	2021	3,716	4,827	1,263	19	-466	7,726	866
Belarus	2018	6,457	209	3,450	..	174	3,042	314
	2019	7,019	0	3,900	..	112	3,007	311
	2020	6,112	7	3,283	..	33	2,803	291
	2021	6,112	7	3,283	..	..	2,836	296
Belgium	2018	13,930	9,844	11,575	1,296	-118	11,021	963
	2019	15,091	8,197	10,982	1,160	396	10,750	934
	2020	13,410	8,197	9,141	1,346	525	10,595	916
	2021	15,230	6,806	11,032	1,498	-692	10,198	878
Bosnia and Herzegovina	2018	300	839	23	..	-21	1,137	334
	2019	9	1,176	2	..	-12	1,195	356
	2020	..	1,106	..	..	2	1,104	333
	2021	..	1,227	12	..	-43	1,259	385
Bulgaria	2018	2,702	807	966	57	-86	2,572	361
	2019	3,359	893	1,571	59	-54	2,676	379
	2020	2,657	927	1,025	68	5	2,485	356
	2021	2,298	941	537	59	-59	2,702	392

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
Croatia	2018	1,583	1,338	976	16	39	1,890	454
	2019	1,274	1,963	1,123	20	109	1,985	481
	2020	1,232	1,501	844	16	24	1,848	451
	2021	1,186	1,743	927	19	15	1,967	485
Czechia	2018	3,505	2,410	842	..	114	4,959	471
	2019	3,648	2,226	843	..	-2	5,033	478
	2020	3,067	2,542	794	..	19	4,796	455
	2021	3,523	2,654	1,032	..	14	5,131	488
Denmark	2018	4,687	2,396	1,763	370	-194	5,144	892
	2019	4,455	2,706	1,965	365	285	4,545	784
	2020	4,267	2,280	1,715	338	239	4,254	730
	2021	4,224	1,720	1,716	358	-248	4,117	703
Estonia	2018	..	902	74	157	-46	717	542
	2019	..	834	41	63	51	679	512
	2020	..	833	37	114	-2	684	514
	2021	..	812	49	113	-33	683	514
Faeroe Islands	2018	..	*176	..	18	..	*157	*3,087
	2019	..	*177	..	19	..	*158	*3,053
	2020	..	*187	..	25	..	*162	*3,092
	2021	..	*199	..	26	..	*173	*3,276
Finland	2018	6,652	1,556	3,587	57	-161	4,725	857
	2019	6,655	1,592	3,773	71	-103	4,506	816
	2020	6,216	1,920	3,382	72	354	4,328	783
	2021	4,575	1,534	2,276	100	-183	3,916	707
France	2018	26,204	22,454	2,195	171	-288	46,581	700
	2019	23,887	24,359	2,566	139	-81	45,621	684
	2020	18,081	24,519	1,494	152	304	40,650	608
	2021	17,903	24,680	1,512	200	-551	41,422	619
Germany	2018	43,143	18,551	8,221	734	-405	53,144	641
	2019	44,045	19,896	7,480	706	200	55,555	668
	2020	44,650	17,764	8,249	532	-236	53,869	646
	2021	41,886	16,541	9,238	708	-401	48,882	586
Gibraltar	2018	..	586	..	460	..	126	3,857
	2019	..	607	..	471	..	136	4,157
	2020	..	605	..	479	..	126	3,855
	2021	..	592	..	467	..	126	3,844
Greece	2018	11,172	999	7,571	323	25	4,252	400
	2019	10,453	1,508	7,060	384	-70	4,587	434
	2020	11,700	1,320	8,368	342	146	4,164	396
	2021	11,543	1,336	8,532	384	-95	4,059	389
Hungary	2018	3,302	2,279	1,939	..	-75	3,717	380
	2019	3,245	2,119	1,450	..	48	3,866	396
	2020	3,212	1,601	1,294	..	7	3,512	360
	2021	3,133	1,889	1,189	..	-48	3,881	400
Iceland	2018	15	369	..	42	29	314	889
	2019	12	393	..	45	-10	370	1,025
	2020	4	387	..	24	-15	381	1,040
	2021	..	471	..	35	21	414	1,119
Ireland	2018	1,188	2,885	99	152	-8	3,831	792
	2019	1,145	3,069	159	128	-38	3,966	810
	2020	1,178	2,577	243	140	-176	3,549	717
	2021	1,201	2,865	74	160	174	3,659	734

Table 22

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
Italy	2018	30,373	5,347	8,982	482	-363	26,619	444
	2019	32,879	5,196	9,618	512	123	27,821	466
	2020	27,204	4,579	7,702	565	53	23,464	394
	2021	31,867	4,769	8,027	699	-11	27,921	471
Kosovo	2018	..	494	..	..	..	494	289
	2019	..	494	..	..	..	494	293
	2020	..	498	..	..	..	498	298
	2021	..	602	..	..	..	602	362
Latvia	2018	33	1,735	679	36	-19	1,072	554
	2019	32	1,595	318	248	9	1,052	549
	2020	40	1,457	146	201	111	1,039	548
	2021	41	1,344	171	194	-73	1,093	583
Lithuania	2018	3,480	521	2,726	83	48	1,145	398
	2019	3,329	527	2,620	79	-23	1,180	414
	2020	2,693	562	2,006	75	89	1,086	385
	2021	2,711	650	1,963	104	5	1,289	462
Luxembourg	2018	..	2,013	2	..	-6	2,018	3,319
	2019	..	2,069	3	..	14	2,052	3,309
	2020	..	1,666	2	..	-4	1,669	2,647
	2021	..	1,696	..	..	-1	1,697	2,655
Malta	2018	10	643	193	360	-78	177	361
	2019	11	728	136	378	29	195	388
	2020	14	645	106	394	-31	189	366
	2021	11	578	42	379	-13	180	343
Montenegro	2018	..	259	..	..	1	258	409
	2019	..	256	..	..	-15	272	431
	2020	..	230	..	..	-9	239	380
	2021	..	288	..	..	..	288	459
Netherlands (Kingd. of the)	2018	18,939	12,056	23,285	2,001	-718	6,427	372
	2019	21,225	12,817	24,591	2,015	700	6,736	388
	2020	21,242	11,650	23,527	2,086	1,114	6,165	354
	2021	23,682	8,876	27,267	2,110	-1,655	4,836	276
North Macedonia	2018	0	751	63	..	21	667	315
	2019	0	751	63	..	21	667	316
	2020	0	656	51	..	18	587	278
	2021	0	751	87	..	-1	666	316
Norway	2018	7,845	1,580	4,115	269	41	5,001	941
	2019	7,019	2,079	4,096	238	-114	4,878	912
	2020	6,210	2,441	3,262	224	150	5,014	932
	2021	5,370	2,623	3,439	233	-119	4,441	822
Poland	2018	13,282	4,810	36	189	104	17,763	461
	2019	13,709	4,549	59	192	53	17,954	466
	2020	13,795	4,309	325	212	-11	17,579	457
	2021	13,960	5,466	96	280	239	18,810	491
Portugal	2018	5,520	857	1,134	137	95	5,011	487
	2019	4,915	1,258	900	153	7	5,113	497
	2020	5,048	929	1,303	140	62	4,473	434
	2021	4,687	1,500	1,377	141	-93	4,762	463
Republic of Moldova	2018	2	610	24	..	..	588	187
	2019	0	622	9	..	-2	615	198
	2020	..	608	..	..	10	598	194
	2021	..	645	..	..	-11	656	214

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
Romania	2018	5,886	1,457	1,586	18	-128	5,867	299
	2019	6,447	1,227	1,531	34	-8	6,117	313
	2020	6,097	1,280	1,172	42	102	6,061	312
	2021	5,499	1,916	890	33	2	6,490	336
Russian Federation	2018	77,464	57	*33,468	*9,645	212	34,196	235
	2019	81,560	62	51,528	385	408	29,301	201
	2020	79,113	400	40,096	5,383	..	34,034	234
	2021	80,557	52	38,144	4,811	..	37,655	260
Serbia	2018	1,572	459	233	17	33	1,748	235
	2019	1,458	675	250	16	-39	1,905	257
	2020	1,594	549	274	16	31	1,823	248
	2021	1,795	614	348	13	-24	2,072	284
Slovakia	2018	2,857	988	1,803	..	11	2,031	373
	2019	2,714	973	1,653	..	-3	2,037	373
	2020	2,924	849	1,891	..	-2	1,884	345
	2021	2,887	860	1,785	..	-10	1,972	362
Slovenia	2018	74	3,151	1,449	19	-6	1,764	837
	2019	102	3,280	1,608	28	18	1,727	818
	2020	96	2,600	1,243	9	-47	1,490	704
	2021	106	2,770	1,205	12	33	1,627	768
Spain	2018	28,846	4,748	6,140	1,249	-61	26,266	561
	2019	28,669	5,026	5,983	1,594	144	25,974	551
	2020	25,651	5,817	7,148	2,464	441	21,415	452
	2021	25,579	6,641	6,377	2,736	-1,001	24,107	508
Sweden	2018	9,646	2,262	6,361	523	-260	5,284	520
	2019	6,690	2,591	3,887	476	-276	5,194	506
	2020	7,080	3,344	4,423	684	1,687	3,629	350
	2021	7,589	2,657	6,653	798	-1,413	4,208	402
Switzerland	2018	1,939	2,902	29	3	-363	5,171	607
	2019	1,744	4,004	16	3	165	5,564	649
	2020	1,835	3,525	18	2	56	5,285	612
	2021	1,488	3,385	8	3	-160	5,022	578
Ukraine	2018	*730	5,594	214	..	-137	6,247	141
	2019	*813	6,257	264	..	38	6,768	153
	2020	*850	6,089	..	..	12	6,927	158
	2021	*850	6,506	0	..	-30	7,385	170
United Kingdom	2018	21,057	16,239	4,299	1,630	-28	31,395	473
	2019	21,950	14,998	4,242	1,586	192	30,928	463
	2020	19,733	11,563	4,145	1,327	142	25,683	383
	2021	18,969	13,645	3,622	1,332	-763	28,425	422
Latin America & Carib.	**2018**	**83,710**	**55,603**	**4,610**	**2,438**	**9**	**132,256**	**207**
	2019	**81,010**	**55,017**	**3,351**	**2,464**	**-1,303**	**131,516**	**204**
	2020	**76,875**	**47,894**	**4,152**	**1,891**	**-317**	**119,044**	**183**
	2021	**78,446**	**54,699**	**3,315**	**2,142**	**76**	**127,612**	**195**
Anguilla	2018	..	26	..	*5	*-6	27	1,779
	2019	..	34	..	*5	*-2	31	2,003
	2020	..	25	..	*5	*-9	29	1,874
	2021	..	33	..	*5	*-2	30	1,904
Antigua and Barbuda	2018	..	*39	*1	..	..	*38	*417
	2019	..	*41	*1	..	..	*40	*432
	2020	..	*39	*1	..	..	*38	*409
	2021	..	*40	*1	..	..	*39	*415

Table 22

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
Argentina	2018	10,424	2,685	33	134	11	12,931	291
	2019	10,616	1,951	29	80	-157	12,615	282
	2020	9,726	1,380	44	122	-247	11,187	248
	2021	9,948	3,372	29	*113	-203	13,381	296
Aruba	2018	..	*24	..	..	..	*24	*224
	2019	..	*22	..	..	..	*22	*209
	2020	..	*21	..	..	..	*21	*196
	2021	..	*23	..	..	..	*23	*214
Bahamas	2018	..	503	..	..	47	456	1,135
	2019	..	499	..	..	*32	467	1,153
	2020	..	372	..	..	*-47	419	1,031
	2021	..	663	..	..	*165	499	1,223
Barbados	2018	..	68	..	..	-6	74	266
	2019	..	78	..	..	0	78	279
	2020	..	69	..	..	7	62	222
	2021	..	62	..	..	7	55	196
Belize	2018	..	69	..	..	..	69	180
	2019	..	88	..	..	..	88	227
	2020	..	67	..	..	..	67	169
	2021	..	67	..	..	..	67	167
Bolivia (Plur. State of)	2018	724	1,059	..	..	1	1,782	154
	2019	582	1,261	..	..	11	1,832	156
	2020	623	877	..	..	-2	1,502	126
	2021	543	1,299	..	..	-13	1,855	154
Bonaire, St Eustatius, Saba	2018	..	*14	..	*11	*-3	*7	*272
	2019	..	*14	..	*11	*-4	*7	*270
	2020	..	*13	..	*7	0	*6	*245
	2021	..	*12	..	*8	*-4	*8	*281
Brazil	2018	41,052	10,124	830	412	-155	50,089	238
	2019	40,713	11,304	48	473	196	51,300	242
	2020	42,347	10,424	285	541	-26	51,971	244
	2021	41,933	12,121	31	465	23	53,536	250
British Virgin Islands	2018	..	*38	..	..	..	*38	*1,246
	2019	..	*45	..	..	..	*45	*1,457
	2020	..	*44	..	..	..	*44	*1,427
	2021	..	*45	..	..	..	*45	*1,439
Cayman Islands	2018	..	144	..	..	..	144	2,218
	2019	..	164	..	..	..	164	2,478
	2020	..	157	..	..	..	157	2,335
	2021	..	156	..	..	..	156	2,295
Chile	2018	3,052	5,497	7	..	0	8,542	457
	2019	3,077	5,506	17	..	0	8,566	450
	2020	2,529	5,831	16	..	0	8,343	432
	2021	3,053	5,870	231	..	-139	8,830	453
Colombia	2018	7,725	621	1,599	90	34	6,623	134
	2019	7,009	1,228	2,062	111	-571	6,635	132
	2020	6,816	1,223	2,350	113	..	5,576	109
	2021	8,012	1,174	1,880	127	268	6,911	134
Costa Rica	2018	..	1,014	..	..	-12	1,026	204
	2019	..	1,017	..	..	-12	1,030	202
	2020	..	885	..	..	8	877	171
	2021	..	1,024	..	..	35	989	192

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
Cuba	2018	703	1,178	*94	*30	..	1,757	155
	2019	447	730	..	*32	..	1,145	101
	2020	541	539	..	*28	..	1,052	93
	2021	382	957	..	*30	..	1,309	116
Curaçao	2018	641	668	636	255	..	418	2,263
	2019	0	702	0	246	..	455	2,359
	2020	..	585	..	201	..	385	2,031
	2021	..	626	..	209	..	417	2,190
Dominica	2018	..	*27	..	..	..	*27	*378
	2019	..	*29	..	..	..	*29	*405
	2020	..	*27	..	..	..	*27	*372
	2021	..	*27	..	..	..	*27	*376
Dominican Republic	2018	356	1,094	..	..	0	1,450	135
	2019	328	1,215	..	..	0	1,543	142
	2020	129	1,023	..	..	-16	1,169	106
	2021	292	1,002	..	..	-7	1,301	117
Ecuador	2018	1,820	2,703	..	56	7	4,460	262
	2019	1,741	2,856	..	50	26	4,521	261
	2020	1,310	2,485	..	22	-14	3,787	215
	2021	1,679	3,140	..	15	28	4,775	268
El Salvador	2018	..	702	8	..	..	694	111
	2019	..	722	3	..	..	719	114
	2020	..	646	..	..	..	646	103
	2021	..	779	1	..	..	778	123
Falkland Is. (Malvinas)	2018	..	8	..	..	..	8	2,131
	2019	..	8	..	..	..	8	2,168
	2020	..	9	..	..	..	9	2,351
	2021	..	9	..	..	..	9	2,321
Grenada	2018	..	68	..	..	0	68	558
	2019	..	76	..	..	..	76	619
	2020	..	66	..	..	0	66	530
	2021	..	73	..	..	0	73	588
Guatemala	2018	50	1,642	6	423	-93	1,357	81
	2019	..	1,883	9	423	33	1,418	83
	2020	..	1,665	7	389	-35	1,304	75
	2021	..	2,040	20	471	-28	1,577	90
Guyana	2018	..	348	..	..	-1	349	444
	2019	..	408	5	..	-4	407	509
	2020	..	426	20	..	-35	441	553
	2021	..	763	*25	..	*133	604	751
Haiti	2018	..	539	..	..	..	539	49
	2019	..	481	..	..	..	481	43
	2020	..	482	..	..	..	482	43
	2021	..	491	..	..	..	491	43
Honduras	2018	..	915	2	..	35	878	90
	2019	..	933	20	..	..	912	92
	2020	..	818	30	..	20	768	76
	2021	..	950	4	..	0	947	92
Jamaica	2018	102	316	39	44	-3	338	120
	2019	128	347	..	63	-3	416	148
	2020	183	287	..	74	3	394	140
	2021	162	303	..	63	5	399	141

Table 22

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
Mexico	2018	5,966	13,804	195	610	78	18,887	152
	2019	6,972	12,167	601	705	-422	18,255	146
	2020	6,427	9,384	777	135	-11	14,910	118
	2021	5,960	9,618	270	364	88	14,856	117
Montserrat	2018	..	6	..	*1	..	5	1,124
	2019	..	5	..	*1	..	4	954
	2020	..	5	..	*1	..	4	978
	2021	..	*5	..	*1	..	*5	*1,041
Nicaragua	2018	210	379	..	..	-2	592	90
	2019	233	351	0	..	7	576	86
	2020	267	281	..	..	-23	571	85
	2021	368	295	..	..	-11	673	98
Panama	2018	..	1,006	..	..	92	914	219
	2019	..	1,056	..	..	-160	1,216	287
	2020	..	561	..	..	167	394	92
	2021	..	800	..	..	-118	918	211
Paraguay	2018	..	1,689	..	..	31	1,658	257
	2019	..	1,646	..	..	27	1,618	248
	2020	..	1,598	..	..	28	1,570	237
	2021	..	1,615	..	..	-70	1,685	251
Peru	2018	3,158	3,574	444	11	-42	6,320	196
	2019	2,949	3,497	265	19	-255	6,417	196
	2020	2,744	3,435	319	9	-87	5,938	178
	2021	2,379	3,412	420	10	-119	5,479	163
Sint Maarten (Dutch part)	2018	..	*158	..	*61	..	*96	*2,277
	2019	..	*159	..	*62	..	*97	*2,259
	2020	..	*150	..	*56	..	*94	*2,155
	2021	..	*156	..	*59	..	*97	*2,194
St. Kitts-Nevis	2018	..	*59	..	..	..	*59	*1,240
	2019	..	*60	..	..	..	*60	*1,258
	2020	..	*56	..	..	..	*56	*1,178
	2021	..	*56	..	..	..	*56	*1,168
St. Lucia	2018	..	112	..	1	..	111	623
	2019	..	110	..	*1	..	109	609
	2020	..	*106	..	*1	..	*105	*588
	2021	..	*111	..	*1	..	*110	*614
St. Vincent-Grenadines	2018	..	46	..	..	*5	41	388
	2019	..	30	..	..	*-8	38	363
	2020	..	31	..	..	*-7	38	360
	2021	..	*32	..	..	*-6	*38	*367
Suriname	2018	301	44	80	6	..	259	436
	2019	311	108	67	*6	..	347	577
	2020	292	89	5	*6	..	369	608
	2021	333	86	32	*8	..	379	619
Trinidad and Tobago	2018	1,178	..	638	166	-4	377	251
	2019	..	783	223	58	-4	506	333
	2020	..	862	297	77	-4	492	324
	2021	..	959	371	97	69	422	277
Turks and Caicos Islands	2018	..	*77	..	..	..	*77	*1,844
	2019	..	*77	..	..	..	*77	*1,794
	2020	..	*76	..	..	..	*76	*1,716
	2021	..	*78	..	..	..	*78	*1,718

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
Uruguay	2018	923	14	..	80	-4	861	251
	2019	892	0	..	88	-34	838	244
	2020	886	127	..	83	12	917	267
	2021	997	289	..	75	-26	1,236	361
Venezuela (Bolivar. Rep.)	2018	5,325	2,502	..	41	..	7,787	261
	2019	5,011	1,326	..	30	..	6,308	218
	2020	2,055	649	..	21	..	2,683	94
	2021	2,404	67	..	21	..	2,450	87
Northern America	**2018**	**282,442**	**12,321**	**69,524**	**7,212**	**-580**	**218,607**	**592**
	2019	**282,587**	**12,345**	**72,108**	**10,361**	**-2,653**	**215,118**	**578**
	2020	**263,295**	**13,284**	**66,619**	**5,568**	**3,072**	**201,320**	**538**
	2021	**259,161**	**15,911**	**60,711**	**5,723**	**-4,259**	**212,898**	**567**
Bermuda	2018	..	37	..	..	0	37	584
	2019	..	29	..	..	0	29	451
	2020	..	21	..	..	..	21	324
	2021	..	9	..	..	-9	18	274
Canada	2018	30,618	2,164	6,397	85	121	26,179	707
	2019	32,980	1,202	7,704	110	-43	26,412	704
	2020	32,372	816	7,496	124	77	25,491	673
	2021	32,259	1,042	7,420	55	-143	25,970	681
Greenland	2018	..	141	..	20	*-9	130	2,332
	2019	..	149	..	18	*6	125	2,244
	2020	..	162	..	20	*7	135	2,409
	2021	..	159	..	12	..	146	2,600
St. Pierre-Miquelon	2018	..	*21	..	*5	..	*16	*2,725
	2019	..	*23	..	*5	..	*18	*2,970
	2020	..	*20	..	*3	..	*17	*2,861
	2021	..	*17	..	*2	..	*15	*2,584
United States	2018	251,824	9,958	63,127	7,102	-692	192,244	579
	2019	249,607	10,942	64,404	10,227	-2,616	188,534	564
	2020	230,923	12,266	59,123	5,422	2,988	175,656	523
	2021	226,902	14,685	53,291	5,654	-4,107	186,749	554
Oceania	**2018**	**9,973**	**20,383**	**215**	**195**	**284**	**29,662**	**697**
	2019	**10,045**	**20,724**	**256**	**221**	**288**	**30,004**	**693**
	2020	**9,369**	**21,743**	**160**	**273**	**-179**	**30,860**	**702**
	2021	**8,635**	**22,499**	**139**	**195**	**-31**	**30,831**	**693**
American Samoa	2018	..	*120	..	*8	..	*112	*2,311
	2019	..	*120	..	*8	..	*112	*2,365
	2020	..	*115	..	*8	..	*107	*2,317
	2021	..	*115	..	*8	..	*107	*2,376
Australia	2018	7,707	16,993	73	54	308	24,266	971
	2019	7,596	17,352	95	77	258	24,519	967
	2020	7,022	18,523	69	100	-165	25,541	995
	2021	6,157	19,163	22	42	41	25,215	973
Cook Islands	2018	..	*15	..	..	..	*15	*878
	2019	..	*15	..	..	..	*15	*897
	2020	..	*12	..	..	..	*12	*723
	2021	..	*13	..	..	..	*13	*786
Fiji	2018	..	*402	*142	*60	..	*201	*218
	2019	..	*390	*130	*55	..	*205	*223
	2020	..	*260	*90	*21	..	*149	*162
	2021	..	*309	*111	*40	..	*157	*170

Table 22

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
French Polynesia	2018	..	141	..	..	3	137	462
	2019	..	135	..	..	-3	138	461
	2020	..	139	..	..	6	133	441
	2021	..	208	..	..	7	200	659
Kiribati	2018	..	*13	..	..	..	*13	*107
	2019	..	*13	..	..	..	*13	*106
	2020	..	*13	..	..	..	*13	*103
	2021	..	*13	..	..	..	*13	*101
Marshall Islands	2018	..	*36	..	..	..	*36	*783
	2019	..	*36	..	..	..	*36	*805
	2020	..	*36	..	..	..	*36	*820
	2021	..	*36	..	..	..	*36	*849
Micronesia (Fed. States of)	2018	..	*30	..	*3	..	*27	*240
	2019	..	*30	..	*3	..	*27	*238
	2020	..	*30	..	*3	..	*27	*236
	2021	..	*29	..	*3	..	*26	*232
Nauru	2018	..	*10	..	..	..	*10	*831
	2019	..	*10	..	..	..	*10	*804
	2020	..	*10	..	..	..	*10	*804
	2021	..	*10	..	..	..	*10	*816
New Caledonia	2018	..	347	..	12	-3	338	1,185
	2019	..	311	..	9	-5	307	1,075
	2020	..	309	..	8	16	285	994
	2021	..	300	..	13	-18	305	1,058
New Zealand	2018	1,790	1,259	0	34	-36	3,051	631
	2019	2,028	1,258	31	45	47	3,163	638
	2020	1,806	1,459	..	117	-10	3,158	624
	2021	1,913	1,435	5	72	-62	3,333	650
Niue	2018	..	*1	..	..	..	*1	*581
	2019	..	*1	..	..	..	*1	*649
	2020	..	*1	..	..	..	*1	*626
	2021	..	*1	..	..	..	*1	*643
Northern Mariana Islands	2018	..	*171	..	*18	..	*153	*3,042
	2019	..	*172	..	*18	..	*154	*3,089
	2020	..	*120	..	*10	..	*110	*2,218
	2021	..	*132	..	*12	..	*120	*2,425
Palau	2018	..	*28	..	..	..	*28	*1,573
	2019	..	*29	..	..	..	*29	*1,591
	2020	..	*28	..	..	..	*28	*1,530
	2021	..	*28	..	..	..	*28	*1,526
Papua New Guinea	2018	475	636	..	..	11	1,100	118
	2019	422	655	..	..	-11	1,088	114
	2020	541	479	..	..	-23	1,044	107
	2021	*564	*494	..	..	..	*1,058	*106
Samoa	2018	..	45	*1	..	*1	43	206
	2019	..	53	*1	..	*2	51	240
	2020	..	*44	0	..	*-2	*45	*210
	2021	..	*45	0	..	..	*44	*203
Solomon Islands	2018	..	*79	..	*6	..	*73	*111
	2019	..	*80	..	*6	..	*74	*110
	2020	..	*77	..	*5	..	*73	*105
	2021	..	*77	..	*5	..	*72	*102

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
Tonga	2018	..	0	..	..	..	0	0
	2019	..	9	..	..	..	9	89
	2020	..	24	..	..	..	24	233
	2021	..	24	..	..	..	24	224
Tuvalu	2018	..	*2	..	..	..	*2	*212
	2019	..	*2	..	..	..	*2	*210
	2020	..	*2	..	..	..	*2	*199
	2021	..	*2	..	..	..	*2	*200
Vanuatu	2018	..	48	..	..	..	48	160
	2019	..	44	..	..	..	44	145
	2020	..	55	..	..	..	55	178
	2021	..	58	..	..	..	58	183
Wallis and Futuna Is.	2018	..	7	..	..	..	7	569
	2019	..	7	..	..	..	7	598
	2020	..	7	..	..	..	7	640
	2021	..	8	..	..	..	8	660

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 63: Production of fuel oil by region, 1990-2021

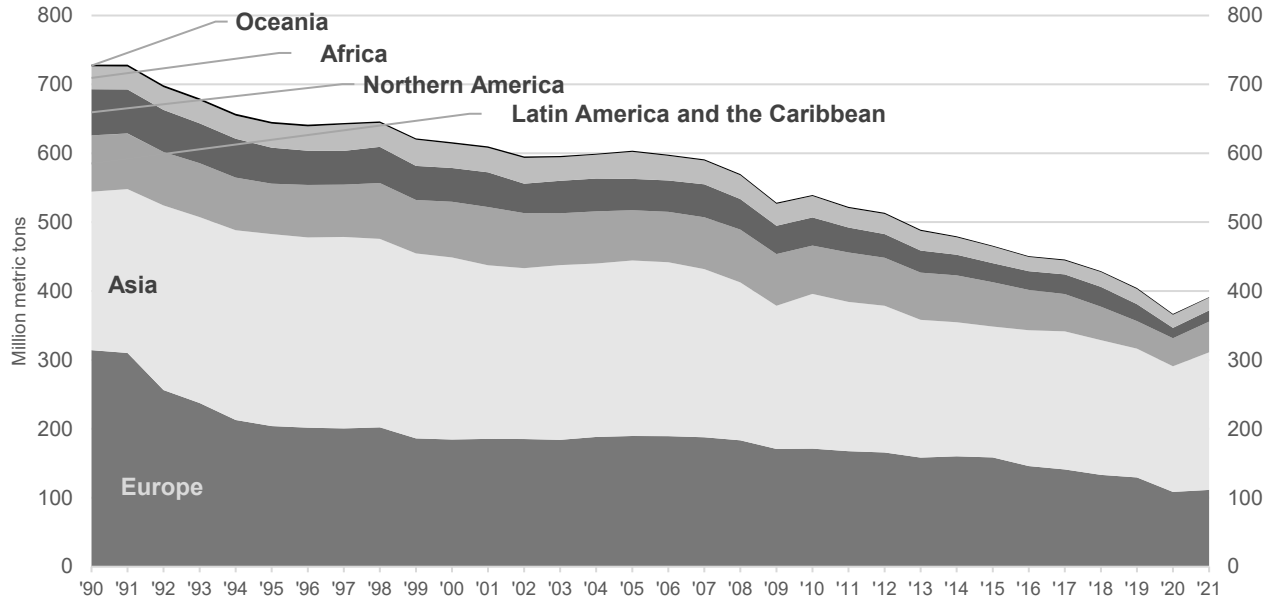


Figure 64: Major fuel oil producing countries, 2021

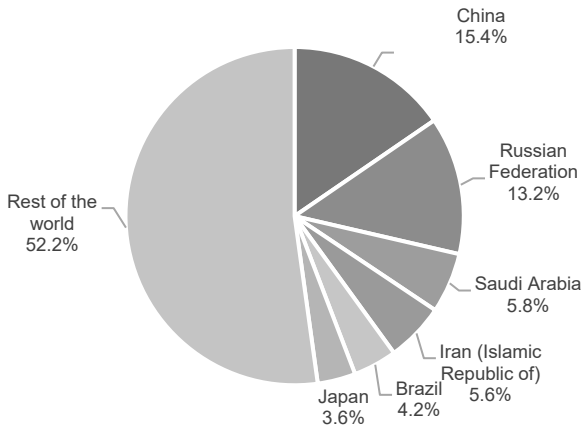


Figure 65: Major fuel oil consuming countries, 2021

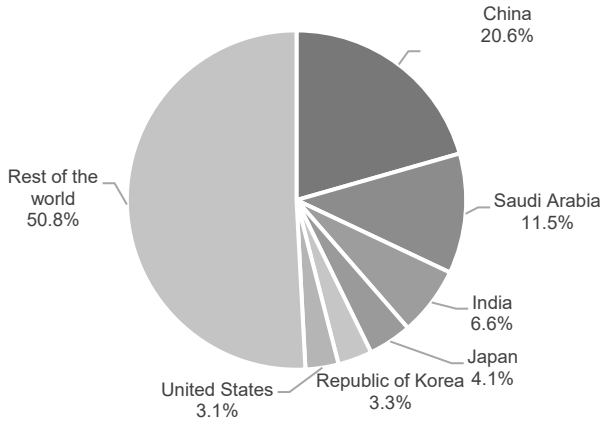


Table 23

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	**2018**	**428,894**	**226,532**	**281,512**	**167,334**	**-5,685**	**212,265**	**28**
	2019	**404,397**	**212,471**	**236,139**	**165,281**	**1,167**	**214,281**	**28**
	2020	**366,750**	**205,460**	**224,279**	**156,946**	**3,666**	**187,320**	**24**
	2021	**391,204**	**221,091**	**242,831**	**162,714**	**-4,402**	**211,152**	**27**
Africa	**2018**	**21,524**	**6,684**	**9,240**	**3,098**	**-133**	**16,003**	**12**
	2019	**21,973**	**6,149**	**8,522**	**2,799**	**345**	**16,456**	**12**
	2020	**19,235**	**5,854**	**13,184**	**2,926**	**-876**	**9,855**	**7**
	2021	**18,562**	**6,166**	**10,558**	**2,770**	**-1,324**	**12,724**	**9**
Algeria	2018	5,822	141	5,810	156	-21	18	0
	2019	5,915	79	5,687	17	129	161	4
	2020	5,920	0	5,793	189	-52	-10	0
	2021	5,447	0	5,414	179	-92	-54	-1
Angola	2018	614	..	377	252	*20	-35	-1
	2019	1,072	..	409	273	399	-8	0
	2020	574	..	556	182	-253	91	3
	2021	569	..	462	204	-343	246	7
Benin	2018	..	25	..	..	-2	27	2
	2019	..	39	..	..	5	34	3
	2020	..	48	..	..	5	43	3
	2021	..	33	..	..	-12	45	3
Botswana	2018	..	12	..	..	..	12	5
	2019	..	12	..	..	..	12	5
	2020	..	11	..	..	..	11	4
	2021	..	12	..	..	..	12	5
Burkina Faso	2018	..	277	..	..	..	277	14
	2019	..	262	..	..	..	262	13
	2020	..	*254	..	..	..	*254	*12
	2021	..	*305	..	..	..	*305	*14
Burundi	2018	..	*31	..	..	..	*31	*3
	2019	..	*32	..	..	..	*32	*3
	2020	..	*23	..	..	..	*23	*2
	2021	..	*31	..	..	..	*31	*2
Cabo Verde	2018	..	*112	..	*41	..	*71	*124
	2019	..	*115	..	*40	..	*75	*129
	2020	..	*102	..	*34	..	*68	*116
	2021	..	*103	..	*35	..	*68	*116
Cameroon	2018	201	..	71	..	..	130	5
	2019	104	47	37	..	..	115	4
	2020	..	98	..	..	..	98	4
	2021	..	83	..	..	..	83	3
Central African Rep.	2018	..	*2	..	..	..	*2	0
	2019	..	*2	..	..	..	*2	0
	2020	..	*3	..	..	..	*3	*1
	2021	..	*3	..	..	..	*3	*1
Chad	2018	*24	..	*20	..	..	*4	0
	2019	*26	..	*20	..	..	*6	0
	2020	*20	..	*19	..	..	*1	0
	2021	*26	..	*20	..	..	*6	0
Comoros	2018	..	*4	..	*4	*-3	*3	*4
	2019	..	*5	..	*5	*-3	*3	*3
	2020	..	*7	..	*4	*-1	*3	*4
	2021	..	*18	..	*4	*6	*8	*10

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
Congo	2018	362	16	348	..	..	30	6
	2019	368	16	352	..	..	32	6
	2020	367	16	255	..	..	129	23
	2021	380	16	258	..	..	139	24
Côte d'Ivoire	2018	652	..	623	7	..	22	1
	2019	704	..	691	7	..	5	0
	2020	632	..	619	7	..	6	0
	2021	701	..	599	8	..	94	3
Dem. Rep. of the Congo	2018	..	13	..	..	..	13	0
	2019	..	1	..	..	..	1	0
	2020	..	1	..	..	..	1	0
	2021	..	1	..	..	..	1	0
Djibouti	2018	..	9	..	*6	..	3	2
	2019	..	29	..	*9	..	20	19
	2020	..	24	..	*7	..	17	16
	2021	..	*25	..	*7	..	*18	*16
Egypt	2018	7,444	498	234	27	..	7,681	74
	2019	9,009	..	356	13	..	8,640	82
	2020	7,869	..	4,969	153	..	2,747	26
	2021	8,053	..	2,713	255	..	5,085	47
Eritrea	2018	..	82	..	21	..	60	17
	2019	..	85	..	22	..	62	18
	2020	..	84	..	17	..	67	19
	2021	..	87	..	13	..	74	20
Ethiopia	2018	..	58	..	..	2	56	1
	2019	..	60	..	..	2	58	1
	2020	..	61	..	..	2	60	1
	2021	..	57	..	..	..	57	0
Gabon	2018	313	..	157	72	16	68	31
	2019	313	..	157	87	1	68	30
	2020	438	..	426	82	-140	71	31
	2021	492	..	505	75	-157	69	30
Gambia	2018	..	*75	..	..	..	*75	*31
	2019	..	*82	..	..	..	*82	*32
	2020	..	*82	..	..	..	*82	*32
	2021	..	*84	..	..	..	*84	*32
Ghana	2018	32	0	42	..	..	-10	0
	2019	205	0	66	..	13	126	4
	2020	216	0	173	..	3	40	1
	2021	145	85	75	..	-4	160	5
Guinea	2018	..	374	..	..	170	204	16
	2019	..	377	..	..	167	210	16
	2020	..	209	..	..	-47	256	19
	2021	..	*157	..	..	*43	*114	*8
Guinea-Bissau	2018	..	*34	..	..	..	*34	*18
	2019	..	*35	..	..	..	*35	*18
	2020	..	*34	..	..	..	*34	*17
	2021	..	*34	..	..	..	*34	*16
Kenya	2018	..	512	..	46	..	466	9
	2019	..	432	1	*10	..	420	8
	2020	..	309	0	*3	..	306	6
	2021	..	340	..	48	..	293	6

Table 23

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	2018	1,850	..	218	281	..	1,351	209
	2019	1,263	141	..	291	..	1,113	169
	2020	891	117	..	97	..	911	137
	2021	1,143	131	..	304	..	970	144
Madagascar	2018	..	131	..	..	-21	152	6
	2019	..	219	..	..	15	204	7
	2020	..	185	..	..	*-8	193	7
	2021	..	205	..	..	*-24	228	8
Malawi	2018	..	*2	..	..	..	*2	0
	2019	..	*2	..	..	..	*2	0
	2020	..	*2	..	..	..	*2	0
	2021	..	*2	..	..	..	*2	0
Mali	2018	..	271	..	..	..	271	14
	2019	..	290	..	..	..	290	14
	2020	..	235	..	..	..	235	11
	2021	..	*238	..	..	..	*238	*11
Mauritania	2018	..	402	..	..	*88	313	73
	2019	..	391	..	..	*88	303	69
	2020	..	460	..	..	*84	376	84
	2021	..	*400	..	..	*81	*319	*69
Mauritius	2018	..	663	..	436	-63	290	224
	2019	..	850	..	520	13	317	244
	2020	..	713	..	519	-52	246	190
	2021	..	749	..	508	-17	258	199
Morocco	2018	..	1,217	..	114	70	1,033	28
	2019	..	836	..	114	-48	770	21
	2020	..	903	..	114	80	708	19
	2021	..	723	..	114	-362	971	26
Mozambique	2018	..	65	..	..	..	65	2
	2019	..	30	..	..	..	30	1
	2020	..	30	..	..	..	30	1
	2021	..	30	..	..	..	30	1
Namibia	2018	..	*57	..	*20	..	*36	*15
	2019	..	*56	..	*19	..	*37	*15
	2020	..	*52	..	*15	..	*37	*15
	2021	..	*53	..	*16	..	*37	*15
Niger	2018	..	1	..	..	..	1	0
	2019	..	0	..	..	..	0	0
	2020	..	17	..	..	7	10	0
	2021	..	*17	..	..	..	*17	*1
Nigeria	2018	552	9	88	228	-380	625	3
	2019	224	32	..	237	-482	501	2
	2020	0	65	..	177	-570	458	2
	2021	47	32	..	147	-543	475	2
Rwanda	2018	..	*21	..	..	..	*21	*2
	2019	..	39	..	..	..	39	3
	2020	..	24	..	..	..	24	2
	2021	..	31	..	..	..	31	2
Senegal	2018	220	615	..	..	..	835	54
	2019	191	746	..	..	1	936	59
	2020	179	758	..	..	-9	946	58
	2021	187	791	..	..	15	964	57

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
Seychelles	2018	..	86	..	*1	..	85	821
	2019	..	72	..	*1	..	71	683
	2020	..	*70	..	*1	*-18	*87	*824
	2021	..	*88	..	*1	*11	*76	*714
Sierra Leone	2018	..	48	..	..	..	48	6
	2019	..	86	..	..	*57	29	4
	2020	..	100	..	..	*88	12	1
	2021	..	107	..	..	*73	34	4
Somalia	2018	..	*39	..	*12	..	*27	*2
	2019	..	*39	..	*12	..	*27	*2
	2020	..	*39	..	*12	..	*27	*2
	2021	..	*39	..	*12	..	*27	*2
South Africa	2018	2,753	97	955	1,352	..	543	9
	2019	2,238	136	710	1,099	..	566	10
	2020	1,570	207	24	1,291	..	462	8
	2021	751	544	13	816	..	467	8
Sudan	2018	228	188	..	..	..	416	10
	2019	*116	*128	..	..	..	*244	*6
	2020	*85	142	..	..	..	227	5
	2021	*66	*187	..	..	..	*254	*6
Togo	2018	..	55	..	..	-2	57	7
	2019	..	43	..	..	-1	44	5
	2020	..	133	..	..	-2	135	16
	2021	..	57	..	..	..	57	7
Tunisia	2018	338	276	296	..	-8	326	27
	2019	52	223	35	..	-11	250	21
	2020	394	159	350	..	8	195	16
	2021	537	188	500	..	0	224	18
Uganda	2018	..	75	..	..	..	75	2
	2019	..	24	..	..	..	24	1
	2020	..	16	..	..	..	16	0
	2021	..	14	..	..	..	14	0
United Rep. of Tanzania	2018	..	92	..	21	..	71	1
	2019	..	55	..	22	..	33	1
	2020	..	48	..	22	..	26	0
	2021	..	52	..	24	..	28	0
Zambia	2018	119	..	..	..	..	119	7
	2019	172	..	..	..	..	172	9
	2020	80	12	..	..	..	92	5
	2021	17	14	..	..	..	31	2
Asia	**2018**	**195,363**	**142,761**	**112,770**	**99,770**	**-2,484**	**128,068**	**28**
	2019	**187,029**	**135,394**	**89,412**	**99,905**	**439**	**132,666**	**29**
	2020	**182,521**	**128,044**	**75,692**	**101,605**	**2,914**	**130,355**	**28**
	2021	**199,760**	**138,038**	**87,680**	**105,512**	**101**	**144,504**	**31**
Afghanistan	2018	*20	*1	..	..	..	*21	*1
	2019	*12	*1	..	..	..	*13	0
	2020	*5	*5	..	..	..	*10	0
	2021	*5	*5	..	..	..	*10	0
Azerbaijan	2018	107	..	19	..	46	42	4
	2019	127	..	0	..	49	77	8
	2020	62	..	0	..	3	59	6
	2021	106	..	2	..	-67	171	17

Table 23

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	2018	2,599	..	2,564	..	35	0	0
	2019	2,662	..	2,690	..	-28	0	0
	2020	1,948	..	1,958	..	-10	0	0
	2021	2,250	..	2,225	..	25	0	0
Bangladesh	2018	304	3,139	..	132	..	3,311	20
	2019	344	3,278	..	142	..	3,480	21
	2020	275	2,744	..	147	..	2,872	17
	2021	416	5,038	..	157	..	5,297	31
Bhutan	2018	..	3	..	..	..	3	4
	2019	..	4	..	..	..	4	5
	2020	..	2	..	..	..	2	2
	2021	..	1	..	..	..	1	1
Brunei Darussalam	2018	..	..	..	..	..	..	..
	2019	..	..	..	..	..	..	..
	2020	5	..	..	5	..	0	0
	2021	..	..	..	..	..	..	..
Cambodia	2018	..	84	..	..	..	84	5
	2019	..	180	..	..	..	180	11
	2020	..	170	..	..	..	170	10
	2021	..	195	..	..	..	195	12
China	2018	38,997	16,656	12,300	10,489	-874	33,739	24
	2019	45,061	14,855	11,177	9,738	1,350	37,651	26
	2020	57,807	12,535	15,833	10,564	651	43,294	30
	2021	60,407	13,811	19,613	11,726	-557	43,435	30
China, Hong Kong SAR	2018	..	7,303	90	7,502	-348	59	8
	2019	..	6,749	186	6,439	123	1	0
	2020	..	5,973	98	5,359	516	0	0
	2021	..	5,694	3	5,348	343	0	0
China, Macao SAR	2018	..	37	..	..	-7	44	68
	2019	..	21	..	..	-13	34	51
	2020	..	41	..	..	8	33	49
	2021	..	0	..	..	-8	8	12
Cyprus	2018	..	1,016	..	154	19	842	691
	2019	..	968	..	156	4	807	657
	2020	..	772	..	158	-14	628	507
	2021	..	850	..	141	6	703	565
Georgia	2018	9	89	95	..	-1	3	1
	2019	16	0	15	..	0	0	0
	2020	12	0	10	..	2	1	0
	2021	18	0	18	..	0	1	0
India	2018	10,032	1,419	2,197	*1,685	..	7,569	6
	2019	8,609	4,583	1,527	*1,725	..	9,940	7
	2020	*6,882	*6,454	*1,177	*1,478	*413	*10,268	*7
	2021	8,237	9,024	1,716	*1,638	*7	13,900	10
Indonesia	2018	1,258	493	176	0	2	1,573	6
	2019	1,168	198	0	2	0	1,363	5
	2020	*1,273	204	..	*150	..	*1,327	*5
	2021	*3,928	165	737	163	..	*3,194	*12
Iran (Islamic Rep. of)	2018	22,136	..	15,955	1,179	..	5,003	58
	2019	22,048	..	16,688	1,179	..	4,181	48
	2020	21,364	..	16,688	1,179	..	3,498	40
	2021	21,984	..	16,688	1,179	..	4,117	47

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	2018	16,182	..	1,098	291	..	14,794	364
	2019	16,880	..	3,883	299	..	12,699	306
	2020	14,169	..	6,600	259	..	7,311	172
	2021	13,458	..	7,828	259	..	5,372	123
Israel	2018	2,576	..	2,067	259	-4	254	30
	2019	2,425	..	2,011	281	-54	187	22
	2020	1,531	..	1,160	341	-12	43	5
	2021	1,637	..	1,199	347	11	81	9
Japan	2018	14,735	1,730	2,715	4,237	106	9,407	75
	2019	14,321	479	2,978	4,275	-240	7,786	62
	2020	12,589	546	1,354	4,730	15	7,035	56
	2021	14,219	1,135	2,013	4,713	-109	8,737	70
Jordan	2018	458	0	..	0	-2	460	44
	2019	369	..	..	32	..	337	32
	2020	342	..	..	39	..	304	28
	2021	356	..	..	46	..	310	28
Kazakhstan	2018	2,948	66	3,002	..	16	-3	0
	2019	2,875	1	2,622	..	7	247	13
	2020	2,255	2	1,593	..	-9	673	35
	2021	2,842	..	2,086	..	-5	761	40
Korea, Dem.Ppl's.Rep.	2018	109	343	..	..	..	452	18
	2019	109	415	..	..	..	524	20
	2020	109	382	..	..	..	491	19
	2021	109	227	..	..	..	336	13
Korea, Republic of	2018	10,200	6,589	4,036	8,275	49	4,429	86
	2019	8,526	4,753	2,649	6,715	-298	4,214	81
	2020	11,204	4,447	1,987	8,300	-2	5,366	104
	2021	11,300	5,503	1,275	8,578	77	6,875	133
Kuwait	2018	8,642	217	3,699	957	-1,461	5,664	1,312
	2019	8,357	193	3,261	924	-591	4,956	1,116
	2020	5,122	278	1,761	867	..	2,772	636
	2021	6,367	1,759	1,237	883	..	6,007	1,413
Kyrgyzstan	2018	156	14	34	..	-36	172	28
	2019	115	58	44	..	3	126	20
	2020	84	76	31	..	67	62	10
	2021	151	0	128	..	-20	43	7
Lao People's Dem. Rep.	2018	..	16	..	..	..	16	2
	2019	..	*11	..	..	..	*11	*2
	2020	..	*11	..	..	..	*11	*2
	2021	..	*11	..	..	..	*11	*1
Lebanon	2018	..	2,048	..	30	..	2,018	339
	2019	..	1,852	..	*30	..	1,822	315
	2020	..	*1,769	..	*30	*75	*1,664	*294
	2021	..	*1,402	..	*30	..	*1,372	*245
Malaysia	2018	2,452	103	1,375	321	526	333	10
	2019	1,400	80	407	272	215	587	18
	2020	1,214	218	446	419	185	383	12
	2021	1,510	26	593	554	-19	409	12
Mongolia	2018	..	3	..	..	..	3	1
	2019	..	3	..	..	..	3	1
	2020	..	3	..	..	..	3	1
	2021	..	2	..	..	..	2	1

Table 23

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	2018	37	..	..	..	-7	44	1
	2019	23	..	..	..	..	23	0
	2020	35	..	..	..	..	35	1
	2021	34	..	..	..	..	34	1
Nepal	2018	..	28	..	..	..	28	1
	2019	..	8	..	..	..	8	0
	2020	..	77	..	..	..	77	3
	2021	..	80	..	..	..	80	3
Oman	2018	277	..	276	*43	..	-42	-9
	2019	336	..	228	*97	..	11	2
	2020	204	..	..	*204	..	0	0
	2021	60	..	..	*60	..	0	0
Other Asia	2018	4,637	2,373	2,073	1,156	-208	3,989	168
	2019	4,100	1,370	1,956	1,199	-256	2,571	108
	2020	4,941	611	1,755	1,163	52	2,583	108
	2021	4,743	903	2,063	1,461	40	2,082	87
Pakistan	2018	2,909	739	0	35	0	3,613	16
	2019	2,251	38	0	30	..	2,259	10
	2020	2,580	722	0	11	..	3,291	14
	2021	2,408	2,330	0	2	..	4,737	20
Philippines	2018	737	792	259	67	-2	1,205	11
	2019	702	765	287	42	-25	1,162	11
	2020	356	979	253	85	-66	1,063	9
	2021	30	1,072	..	37	51	1,014	9
Qatar	2018	146	..	144	..	..	2	1
	2019	141	..	141	..	..	0	0
	2020	114	..	114	..	..	0	0
	2021	1,128	..	1,128	..	..	0	0
Saudi Arabia	2018	24,312	16,772	18,556	*3,518	*159	18,851	538
	2019	22,605	*11,102	*4,456	*3,358	*-77	25,970	725
	2020	18,501	*11,576	*3,540	*2,741	*307	23,489	653
	2021	22,536	*9,725	*4,712	*2,972	*378	24,199	673
Singapore	2018	5,180	68,310	26,307	47,513	-749	420	72
	2019	4,853	64,699	23,171	43,581	41	2,759	470
	2020	4,043	58,938	15,402	45,138	222	2,219	375
	2021	4,110	60,539	16,907	45,907	-443	2,279	384
Sri Lanka	2018	424	306	26	603	-42	143	7
	2019	483	244	..	551	-52	228	11
	2020	469	353	..	349	-20	493	23
	2021	359	359	31	471	-133	349	16
State of Palestine	2018	..	7	..	..	..	7	1
	2019	..	4	..	..	..	4	1
	2020	..	4	..	..	..	4	1
	2021	..	3	..	..	..	3	1
Syrian Arab Republic	2018	2,796	..	..	1	..	2,795	145
	2019	2,511	..	..	1	..	2,510	125
	2020	2,618	..	..	1	..	2,617	126
	2021	2,531	..	..	0	..	2,531	119
Tajikistan	2018	26	24	..	..	..	50	5
	2019	15	23	..	..	..	38	4
	2020	8	9	..	..	..	17	2
	2021	10	0	..	..	..	10	1

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
Thailand	2018	5,580	8	3,242	1,391	256	698	10
	2019	5,152	23	3,021	1,170	287	697	10
	2020	4,663	23	2,588	1,036	350	712	10
	2021	5,260	64	2,960	1,182	315	866	12
Türkiye	2018	2,189	2,404	1,112	845	49	2,587	31
	2019	3,114	2,047	2,126	768	-3	2,270	27
	2020	459	2,024	217	262	124	1,881	22
	2021	1,602	1,615	1,272	282	217	1,446	17
Turkmenistan	2018	1,690	..	759	..	..	931	154
	2019	1,690	..	759	..	..	931	151
	2020	1,690	..	759	..	..	931	149
	2021	1,690	..	759	..	..	931	147
United Arab Emirates	2018	9,854	*8,601	8,201	8,751	..	1,502	164
	2019	2,958	15,182	2,799	16,665	..	-1,324	-144
	2020	2,780	15,072	..	16,401	..	1,451	156
	2021	3,258	15,470	..	17,205	..	1,522	163
Uzbekistan	2018	143	74	..	..	-6	222	7
	2019	211	124	..	..	-3	338	10
	2020	170	94	..	..	-3	267	8
	2021	308	*55	..	..	-8	371	11
Viet Nam	2018	200	699	394	286	..	219	2
	2019	178	833	332	183	..	496	5
	2020	440	676	369	146	60	541	6
	2021	218	732	488	128	..	334	3
Yemen	2018	308	257	..	51	..	515	17
	2019	286	251	..	51	..	485	15
	2020	199	254	..	47	..	406	13
	2021	175	241	..	47	..	369	11
Europe	**2018**	**133,235**	**49,730**	**106,409**	**42,157**	**-540**	**34,940**	**47**
	2019	**129,442**	**45,506**	**102,797**	**41,257**	**190**	**30,704**	**41**
	2020	**108,454**	**48,320**	**101,597**	**34,906**	**1,210**	**19,061**	**25**
	2021	**111,255**	**55,763**	**111,408**	**35,283**	**-1,993**	**22,320**	**30**
Albania	2018	..	1	..	..	..	1	1
	2019	..	3	..	..	..	3	1
	2020	..	3	..	..	..	3	1
	2021	..	5	..	..	..	5	2
Austria	2018	710	65	467	..	-17	325	37
	2019	735	44	455	..	-56	380	43
	2020	737	67	471	..	-24	356	40
	2021	645	32	370	..	-33	340	38
Belarus	2018	5,409	..	5,019	..	-9	399	41
	2019	4,382	..	4,062	..	-1	321	33
	2020	3,515	..	2,719	..	37	759	79
	2021	3,515	..	2,719	..	..	796	83
Belgium	2018	7,507	6,127	5,794	8,327	53	-540	-47
	2019	4,585	5,733	4,296	7,336	76	-1,389	-121
	2020	2,582	4,302	3,349	5,173	-54	-1,584	-137
	2021	2,472	5,733	3,093	6,250	-171	-967	-83
Bosnia and Herzegovina	2018	57	52	3	..	..	106	31
	2019	25	31	15	..	-4	45	13
	2020	..	41	4	..	0	38	11
	2021	..	32	2	..	-4	34	10

Table 23

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
Bulgaria	2018	948	27	847	25	25	77	11
	2019	581	35	544	17	13	43	6
	2020	259	60	278	16	2	22	3
	2021	209	109	242	26	9	41	6
Croatia	2018	669	57	595	5	6	121	29
	2019	397	41	350	5	-5	88	21
	2020	267	6	239	4	-6	37	9
	2021	291	3	247	4	4	38	9
Czechia	2018	137	2	137	..	-32	34	3
	2019	139	..	119	..	-8	28	3
	2020	93	14	51	..	7	49	5
	2021	82	17	29	..	6	64	6
Denmark	2018	1,870	1,796	2,843	221	-170	773	134
	2019	1,592	2,432	2,946	377	391	310	53
	2020	1,469	3,253	4,004	216	340	163	28
	2021	1,505	1,861	3,898	111	-644	2	0
Estonia	2018	..	474	321	140	4	9	7
	2019	..	437	337	106	-20	15	11
	2020	..	526	295	167	63	1	1
	2021	..	561	424	175	-38	0	0
Faeroe Islands	2018	..	*89	..	21	..	*68	*1,330
	2019	..	*98	..	26	..	*72	*1,395
	2020	..	*103	..	29	..	*75	*1,422
	2021	..	*102	..	31	..	*71	*1,351
Finland	2018	1,543	449	1,165	276	64	487	88
	2019	1,412	601	1,175	272	-122	688	125
	2020	1,549	457	1,181	242	-23	606	110
	2021	1,179	643	962	183	45	632	114
France	2018	5,853	3,422	4,895	1,842	21	2,517	38
	2019	6,176	2,883	3,852	1,617	87	3,502	52
	2020	4,066	2,026	2,626	836	-22	2,652	40
	2021	4,124	1,524	2,716	894	-207	2,245	34
Germany	2018	7,296	2,144	2,658	981	17	5,784	70
	2019	7,034	1,628	2,736	668	-122	5,380	65
	2020	6,220	1,368	2,792	809	-69	4,056	49
	2021	7,421	1,290	3,613	705	285	4,108	49
Gibraltar	2018	..	3,762	..	3,711	..	51	1,576
	2019	..	3,835	..	3,800	..	35	1,069
	2020	..	3,862	..	3,862	..	0	0
	2021	..	3,766	..	3,766	..	0	0
Greece	2018	6,551	1,725	3,852	1,936	-150	2,638	248
	2019	5,172	2,331	2,737	2,220	123	2,423	229
	2020	3,467	1,578	1,392	1,331	61	2,261	215
	2021	4,977	1,808	3,199	1,480	-223	2,328	223
Hungary	2018	43	24	14	..	16	37	4
	2019	21	11	3	..	-2	31	3
	2020	23	9	13	..	-3	22	2
	2021	61	0	29	..	7	25	3
Iceland	2018	..	119	..	34	3	83	234
	2019	..	57	..	19	-12	50	139
	2020	..	0	..	..	-1	1	2
	2021	..	4	..	3	5	-4	-12

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
Ireland	2018	976	84	1,002	16	-24	66	14
	2019	725	114	724	10	1	103	21
	2020	824	172	817	11	38	130	26
	2021	971	371	962	7	15	359	72
Italy	2018	6,858	1,692	4,449	2,302	39	1,761	29
	2019	6,709	1,008	3,718	2,201	57	1,741	29
	2020	5,628	1,239	3,327	1,925	38	1,577	26
	2021	7,431	1,219	5,087	1,866	-619	2,316	39
Kosovo	2018	..	21	..	..	..	21	12
	2019	..	20	..	..	..	20	12
	2020	..	22	..	..	..	22	13
	2021	..	21	..	..	..	21	13
Latvia	2018	..	4	..	2	-1	3	2
	2019	..	44	..	43	-1	2	1
	2020	..	4	..	3	-1	2	1
	2021	..	13	..	11	0	2	1
Lithuania	2018	1,681	129	1,640	122	-10	59	20
	2019	1,539	123	1,549	120	-26	19	7
	2020	1,105	111	1,028	111	20	57	20
	2021	1,145	88	1,076	86	26	46	16
Luxembourg	2018	..	3	0	..	..	3	4
	2019	..	2	0	..	..	2	3
	2020	..	1	0	..	..	1	2
	2021	..	0	0	..	..	0	0
Malta	2018	..	2,109	161	1,923	20	5	11
	2019	..	2,115	246	1,962	-100	6	12
	2020	..	1,974	89	1,864	14	7	14
	2021	..	1,657	65	1,623	-39	8	16
Montenegro	2018	..	4	..	..	2	2	3
	2019	..	3	0	..	1	2	3
	2020	..	1	..	..	-2	2	3
	2021	..	3	..	..	..	3	5
Netherlands (Kingd. of the)	2018	11,077	13,047	11,314	9,213	-9	3,607	209
	2019	8,909	11,709	9,682	9,395	86	1,455	84
	2020	9,024	19,865	18,532	9,740	848	-231	-13
	2021	7,742	27,799	24,299	9,237	11	1,994	114
North Macedonia	2018	..	81	5	..	2	74	35
	2019	..	81	5	..	2	74	35
	2020	..	81	2	..	-4	83	39
	2021	..	93	3	..	4	86	41
Norway	2018	1,474	1,440	1,419	30	25	1,440	271
	2019	1,806	1,012	1,661	36	-31	1,153	216
	2020	1,494	847	1,601	22	22	695	129
	2021	669	890	810	21	-40	768	142
Poland	2018	3,630	48	2,774	78	-2	828	21
	2019	3,115	16	2,283	81	-27	794	21
	2020	2,011	31	1,114	86	19	822	21
	2021	1,919	30	986	64	-15	914	24
Portugal	2018	2,626	176	1,307	699	229	567	55
	2019	2,114	189	1,113	831	-191	549	53
	2020	2,416	258	1,600	568	-6	512	50
	2021	2,474	157	1,604	538	86	403	39

Table 23

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
Republic of Moldova	2018	6	7	3	..	..	10	3
	2019	4	6	..	..	5	5	2
	2020	2	5	2	..	4	1	0
	2021	2	2	2	..	-16	18	6
Romania	2018	196	..	124	..	15	58	3
	2019	193	5	139	..	0	59	3
	2020	153	..	85	..	-2	71	4
	2021	182	..	146	..	-34	70	4
Russian Federation	2018	50,147	0	*42,068	2,035	-181	6,224	43
	2019	58,417	109	49,104	1,973	-230	7,679	53
	2020	50,823	119	44,592	1,394	..	4,957	34
	2021	51,575	61	46,348	1,204	..	4,083	28
Serbia	2018	361	7	28	..	2	337	45
	2019	257	9	7	..	-1	260	35
	2020	203	26	31	..	-19	218	30
	2021	100	127	3	..	-6	229	31
Slovakia	2018	482	77	319	..	14	226	41
	2019	535	44	344	..	13	222	41
	2020	618	26	418	..	10	216	40
	2021	540	61	396	..	-17	222	41
Slovenia	2018	..	442	232	210	..	0	0
	2019	..	302	137	165	..	0	0
	2020	..	426	315	110	..	0	0
	2021	..	274	197	76	..	0	0
Spain	2018	6,000	7,371	3,761	5,926	-199	3,883	83
	2019	5,056	6,843	2,701	5,713	25	3,460	73
	2020	2,443	3,974	2,505	3,965	11	-64	-1
	2021	2,645	4,129	2,194	4,577	-239	242	5
Sweden	2018	5,150	1,799	4,362	1,267	-263	1,583	156
	2019	4,413	842	3,186	1,573	285	211	21
	2020	3,860	772	2,965	1,877	-74	-137	-13
	2021	3,936	612	2,732	1,747	-141	210	20
Switzerland	2018	316	0	304	..	11	1	0
	2019	311	1	327	..	-14	0	0
	2020	364	0	362	..	1	1	0
	2021	294	0	275	..	8	11	1
Ukraine	2018	429	42	..	..	3	468	11
	2019	74	1	13	..	-31	93	2
	2020	75	..	..	..	18	57	1
	2021	82	5	68	..	-21	40	1
United Kingdom	2018	3,233	812	2,527	818	-42	743	11
	2019	3,016	707	2,232	691	28	772	12
	2020	3,167	690	2,800	546	-36	547	8
	2021	3,068	660	2,612	597	5	514	8
Latin America & Carib.	**2018**	**48,611**	**11,508**	**28,934**	**7,540**	**-507**	**24,152**	**38**
	2019	**39,835**	**12,745**	**20,300**	**7,156**	**-70**	**25,194**	**39**
	2020	**40,581**	**9,053**	**24,596**	**6,154**	**524**	**18,361**	**28**
	2021	**44,684**	**8,400**	**25,851**	**6,407**	**-239**	**21,065**	**32**
Antigua and Barbuda	2018	..	*178	..	*71	..	*107	*1,168
	2019	..	*187	..	*74	..	*113	*1,227
	2020	..	*181	..	*71	..	*110	*1,187
	2021	..	*185	..	*74	..	*111	*1,191

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
Argentina	2018	1,878	*236	584	591	-13	952	21
	2019	2,138	*200	863	377	-48	1,146	26
	2020	2,683	0	513	224	17	1,929	43
	2021	2,059	355	67	29	-40	2,358	52
Aruba	2018	..	195	..	*12	..	183	1,727
	2019	..	*188	..	*12	..	*176	*1,657
	2020	..	*192	..	*12	..	*180	*1,691
	2021	..	*197	..	*12	..	*185	*1,740
Bahamas	2018	..	195	..	*152	..	43	107
	2019	..	*182	..	*160	..	*22	*55
	2020	..	*186	..	*151	..	*35	*86
	2021	..	*274	..	*222	..	*52	*128
Barbados	2018	..	195	..	..	2	193	691
	2019	..	147	..	..	-6	153	548
	2020	..	143	..	..	5	138	491
	2021	..	139	..	..	-3	142	505
Belize	2018	..	9	..	..	..	9	23
	2019	..	22	..	..	..	22	56
	2020	..	3	..	..	..	3	7
	2021	..	10	..	..	..	10	24
Bonaire, St Eustatius, Saba	2018	..	*61	..	*39	*-1	*23	*928
	2019	..	*64	..	*39	*-1	*26	*1,016
	2020	..	*56	..	*28	..	*28	*1,061
	2021	..	*56	..	*30	..	*26	*974
Brazil	2018	10,761	303	5,136	2,556	-213	3,585	17
	2019	11,626	53	5,801	2,972	34	2,872	14
	2020	16,643	37	10,490	3,295	65	2,830	13
	2021	16,352	591	9,593	2,551	438	4,362	20
Chile	2018	1,149	27	391	136	2	648	35
	2019	993	14	179	102	55	671	35
	2020	997	13	236	32	3	740	38
	2021	1,087	38	344	74	-3	710	36
Colombia	2018	3,260	1	1,667	..	..	1,595	32
	2019	3,036	0	1,661	19	..	1,356	27
	2020	1,656	0	1,258	5	..	393	8
	2021	2,716	..	1,422	6	..	1,289	25
Costa Rica	2018	..	130	..	..	-16	146	29
	2019	..	133	..	..	25	107	21
	2020	..	91	..	..	-11	102	20
	2021	..	104	..	..	-7	112	22
Cuba	2018	1,313	912	..	*404	..	1,821	161
	2019	766	1,343	..	*380	..	1,729	153
	2020	903	1,935	..	*330	..	2,508	222
	2021	664	1,125	..	*370	..	1,418	126
Curaçao	2018	1,037	2,055	1,009	1,796	..	287	1,551
	2019	0	1,946	0	1,735	..	211	1,091
	2020	..	1,574	..	1,415	..	159	839
	2021	..	1,646	..	1,475	..	170	895
Dominica	2018	..	*14	..	*1	..	*13	*187
	2019	..	*15	..	*1	..	*14	*191
	2020	..	*14	..	*1	..	*13	*181
	2021	..	*14	..	*1	..	*13	*180

Table 23

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
Dominican Republic	2018	372	1,424	..	..	-1	1,797	167
	2019	329	1,565	..	..	-1	1,896	174
	2020	136	979	..	..	-1	1,116	101
	2021	366	835	..	..	-2	1,202	108
Ecuador	2018	3,572	624	2,389	669	-3	1,141	67
	2019	2,866	662	2,223	523	-2	783	45
	2020	2,607	462	2,209	132	-3	732	42
	2021	3,380	359	2,307	886	1	547	31
El Salvador	2018	..	273	..	..	..	273	44
	2019	..	362	0	..	..	362	58
	2020	..	257	0	..	..	257	41
	2021	..	236	1	..	..	236	37
Guatemala	2018	..	242	9	..	-21	254	15
	2019	..	264	17	..	2	245	14
	2020	..	219	2	..	-2	219	13
	2021	..	227	0	..	-7	234	13
Guyana	2018	..	216	..	..	1	215	274
	2019	..	215	..	..	-4	219	274
	2020	..	223	..	..	*5	218	273
	2021	..	231	..	..	*12	219	273
Haiti	2018	..	116	..	..	..	116	11
	2019	..	126	..	..	..	126	11
	2020	..	121	..	..	..	121	11
	2021	..	119	..	..	..	119	10
Honduras	2018	..	521	1	..	29	491	50
	2019	..	750	1	..	..	748	75
	2020	..	708	0	..	-14	721	71
	2021	..	646	8	..	-3	640	62
Jamaica	2018	729	966	250	..	-15	1,460	519
	2019	887	891	313	..	0	1,465	521
	2020	785	489	630	..	0	644	228
	2021	680	354	502	..	49	483	171
Mexico	2018	10,550	1,924	5,561	84	-81	6,910	56
	2019	8,472	2,358	4,005	74	-67	6,818	55
	2020	10,019	485	6,224	19	408	3,853	31
	2021	13,874	..	8,957	53	-206	5,070	40
Nicaragua	2018	240	*242	10	..	22	450	68
	2019	96	443	30	..	57	453	68
	2020	77	276	71	..	-27	309	46
	2021	95	278	91	..	-38	321	47
Panama	2018	..	153	..	..	84	69	16
	2019	..	198	..	..	74	124	29
	2020	..	57	..	..	48	9	2
	2021	..	30	..	..	7	23	5
Paraguay	2018	..	4	..	..	0	4	1
	2019	..	5	..	..	0	5	1
	2020	..	2	..	..	0	2	0
	2021	..	0	..	..	-1	1	0
Peru	2018	2,780	0	2,063	463	-277	532	17
	2019	2,316	30	1,511	391	-175	618	19
	2020	570	29	293	225	-66	147	4
	2021	574	30	384	401	-482	301	9

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
Sint Maarten (Dutch part)	2018	..	*234	..	*123	..	*112	*2,639
	2019	..	*235	..	*124	..	*111	*2,592
	2020	..	*224	..	*120	..	*104	*2,384
	2021	..	*235	..	*125	..	*110	*2,507
St. Lucia	2018	..	*1	..	*1	..	0	0
	2019	..	*1	..	*1	..	0	0
	2020	..	*1	..	*1	..	0	0
	2021	..	*1	..	*1	..	0	0
Suriname	2018	300	1	*264	32	..	5	8
	2019	255	2	*212	*32	..	13	21
	2020	262	1	*189	*30	..	44	73
	2021	278	0	*214	*32	..	32	52
Trinidad and Tobago	2018	1,810	..	1,560	254	-4	0	0
	2019	..	105	21	3	..	80	53
	2020	..	95	9	1	94	-10	-6
	2021	..	85	21	3	60	0	0
Uruguay	2018	242	56	..	64	0	235	69
	2019	225	40	..	68	-13	210	61
	2020	214	0	..	15	2	198	58
	2021	237	0	..	14	-14	237	69
Venezuela (Bolivar. Rep.)	2018	8,618	..	8,040	94	..	484	16
	2019	5,831	..	3,464	68	..	2,300	79
	2020	3,028	..	2,473	47	..	507	18
	2021	2,322	..	1,942	48	..	333	12
Northern America	**2018**	**28,808**	**13,863**	**23,735**	**13,971**	**-2,160**	**7,126**	**19**
	2019	**24,709**	**10,691**	**14,770**	**13,188**	**263**	**7,179**	**19**
	2020	**15,039**	**12,501**	**8,934**	**10,706**	**7**	**7,893**	**21**
	2021	**16,250**	**11,508**	**6,836**	**12,329**	**-874**	**9,467**	**25**
Bermuda	2018	..	135	..	*11	..	124	1,944
	2019	..	115	..	*9	..	106	1,667
	2020	..	96	..	*7	..	89	1,393
	2021	..	126	..	*9	..	117	1,828
Canada	2018	5,196	598	3,701	378	-29	1,744	47
	2019	4,994	803	1,878	168	-20	3,771	100
	2020	3,642	539	829	168	1	3,183	84
	2021	3,784	387	1,344	168	-40	2,699	71
Greenland	2018	..	11	..	2	*-3	12	218
	2019	..	19	..	2	*-4	21	372
	2020	..	0	..	0	*-12	*11	*203
	2021	..	0	..	0	0	0	*1
United States	2018	23,612	13,120	20,034	13,580	-2,128	5,246	16
	2019	19,715	9,754	12,892	13,009	286	3,281	10
	2020	11,398	11,866	8,105	10,531	18	4,610	14
	2021	12,466	10,995	5,491	12,152	-834	6,651	20
Oceania	**2018**	**1,353**	**1,986**	**424**	**799**	**139**	**1,976**	**46**
	2019	**1,410**	**1,987**	**337**	**977**	**0**	**2,083**	**48**
	2020	**920**	**1,688**	**276**	**649**	**-111**	**1,796**	**41**
	2021	**694**	**1,216**	**498**	**413**	**-74**	**1,072**	**24**
American Samoa	2018	..	0	..	..	..	0	*2
	2019	..	0	..	..	..	0	*2
	2020	..	0	..	..	..	0	*2
	2021	..	0	..	..	..	0	*2

Table 23

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
Australia	2018	765	686	224	504	143	580	23
	2019	909	703	203	677	0	732	29
	2020	740	603	262	574	-97	604	24
	2021	438	295	389	360	4	-20	-1
Cook Islands	2018	..	*5	..	*2	..	*2	*136
	2019	..	*5	..	*2	..	*2	*140
	2020	..	*3	..	*1	..	*2	*117
	2021	..	*3	..	*1	..	*2	*141
Fiji	2018	..	*100	*29	*5	..	*66	*72
	2019	..	*108	*37	*5	..	*66	*72
	2020	..	*73	*13	*2	..	*58	*63
	2021	..	*78	*13	*3	..	*62	*67
French Polynesia	2018	..	70	..	..	2	68	228
	2019	..	73	..	..	2	71	236
	2020	..	65	..	..	-2	67	222
	2021	..	5	..	..	1	3	11
Nauru	2018	..	*9	..	*4	..	*5	*394
	2019	..	*9	..	*4	..	*5	*379
	2020	..	*8	..	*4	..	*5	*374
	2021	..	*9	..	*4	..	*5	*412
New Caledonia	2018	..	449	..	..	-13	462	1,621
	2019	..	458	..	..	19	439	1,538
	2020	..	407	..	..	11	396	1,383
	2021	..	281	..	..	-48	329	1,143
New Zealand	2018	465	..	171	271	-3	26	5
	2019	422	23	97	276	-3	74	15
	2020	80	22	..	57	-16	61	12
	2021	155	38	96	34	-4	67	13
Palau	2018	..	*31	..	..	..	*31	*1,758
	2019	..	*32	..	..	..	*32	*1,775
	2020	..	*31	..	..	..	*31	*1,725
	2021	..	*31	..	..	..	*31	*1,720
Papua New Guinea	2018	122	605	..	7	9	711	76
	2019	80	565	..	7	-9	647	68
	2020	101	471	..	6	8	557	57
	2021	*101	*471	..	*6	*-11	*576	*58
Tonga	2018	..	26	..	0	*1	24	230
	2019	..	7	..	0	*-9	*15	*147
	2020	..	0	..	0	*-16	*16	*148
	2021	..	0	..	0	*-16	*16	*148
Vanuatu	2018	..	*5	..	*5	..	0	0
	2019	..	*6	..	*6	..	0	0
	2020	..	*5	..	*5	..	0	0
	2021	..	*6	..	*6	..	0	0

Production of minor oil products from refineries - by type

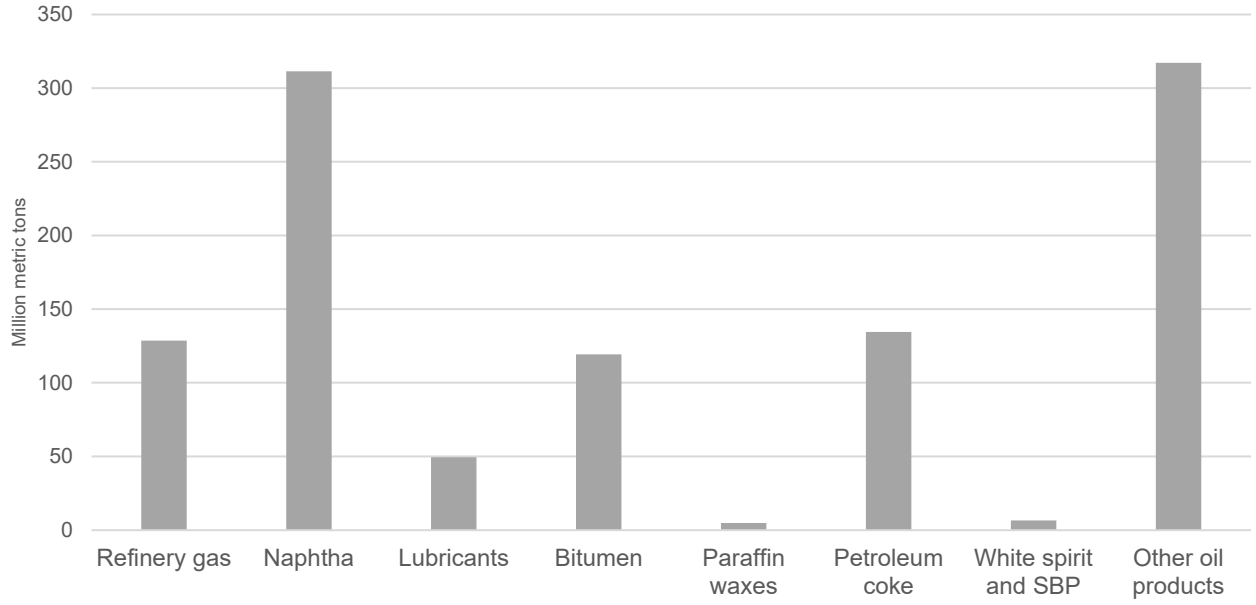
Thousand metric tons

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 66: Production of minor oil products from refineries, 2021*



*Ethane is included with other oil products

Table 24

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	**2018**	**129,218**	**2,055**	**296,339**	**47,619**	**116,232**	**4,580**	**151,024**	**6,608**	**227,570**
	2019	**129,870**	**2,021**	**295,670**	**47,019**	**116,938**	**4,729**	**139,863**	**5,800**	**266,503**
	2020	**121,798**	**2,048**	**291,208**	**45,947**	**119,407**	**4,079**	**129,838**	**6,167**	**309,926**
	2021	**128,622**	**2,002**	**311,418**	**49,492**	**119,278**	**4,772**	**134,429**	**6,546**	**315,182**
Africa	**2018**	**1,227**	**..**	**10,675**	**549**	**1,488**	**10**	**753**	**96**	**2,398**
	2019	**1,291**	**..**	**10,066**	**544**	**1,388**	**10**	**608**	**87**	**696**
	2020	**829**	**..**	**10,375**	**569**	**1,408**	**11**	**779**	**64**	**556**
	2021	**710**	**..**	**11,175**	**565**	**1,284**	**11**	**763**	**68**	**773**
Algeria	2018	..	..	7,634	69	194	..	..	..	84
	2019	..	..	7,268	65	152	..	..	..	118
	2020	..	..	7,341	52	177	..	..	..	31
	2021	..	..	7,572	36	3	..	..	..	226
Angola	2018	53	..	244	5	12	..	..	..	246
	2019	74	..	333	5	23	..	..	..	20
	2020	25	..	348	5	11	..	..	..	11
	2021	25	..	356	4	14	..	..	..	25
Cameroon	2018	50	..	..	..	..	..	..	..	116
	2019	26	..	..	..	..	..	..	..	60
	2020	..	..	..	..	..	..	..	..	..
	2021	..	..	..	..	..	..	..	..	..
Chad	2018	..	..	..	*1	*1	..	*36	..	*14
	2019	..	..	..	*1	*1	..	*37	..	*15
	2020	..	..	..	*1	*1	..	*36	..	*14
	2021	..	..	..	*1	*1	..	*36	..	*14
Congo	2018	..	..	9	..	..	..	..	..	19
	2019	..	..	10	..	..	..	..	..	19
	2020	..	..	9	..	..	..	..	..	19
	2021	..	..	9	..	..	..	..	..	19
Côte d'Ivoire	2018	20	..	..	46	259	..	..	..	..
	2019	23	..	..	20	136	..	..	..	..
	2020	21	..	..	20	129	..	..	..	..
	2021	24	..	..	21	149	..	..	..	..
Egypt	2018	130	..	737	286	633	..	248	..	1,352
	2019	142	..	833	312	691	..	271	..	393
	2020	157	..	1,660	344	762	..	299	..	434
	2021	159	..	1,935	347	769	..	301	..	437
Gabon	2018	..	..	..	9	2	..	..	..	..
	2019	..	..	..	8	2	..	..	..	..
	2020	..	..	..	11	2	..	..	..	..
	2021	..	..	..	12	2	..	..	..	..
Libya	2018	113	..	948	..	29	..	..	..	6
	2019	82	..	842	..	21	..	..	..	4
	2020	58	..	594	..	15	..	..	..	3
	2021	77	..	762	..	20	..	..	..	4
Niger	2018	..	..	..	..	..	..	..	..	19
	2019	..	..	..	..	..	..	..	..	17
	2020	..	..	..	..	..	..	..	..	2
	2021	..	..	..	..	..	..	..	..	*15
Nigeria	2018	57	..	158	..	5	..	7	..	492
	2019	12	..	36	..	..	..	1	..	0
	2020	0	..	0	..	..	..	0	..	0
	2021	..	..	..	..	..	..	..	..	..

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	2018	13	..	76	..	..	..	..	..	..
	2019	12	..	71	..	..	..	..	..	..
	2020	10	..	30	..	..	..	..	..	..
	2021	11	..	68	..	..	..	..	..	..
South Africa	2018	758	..	618	132	354	10	..	83	37
	2019	886	..	632	135	362	10	..	85	36
	2020	524	..	200	137	311	11	..	58	36
	2021	384	..	210	144	326	11	..	61	31
Sudan	2018	*20	..	9	..	..	..	462	..	..
	2019	*20	..	*9	..	..	..	*299	..	..
	2020	*20	..	*1	..	..	..	*445	..	..
	2021	*20	..	*1	..	..	..	*426	..	..
Tunisia	2018	..	..	241	..	..	..	..	13	..
	2019	..	..	33	..	..	..	..	2	..
	2020	6	..	191	..	..	..	..	6	..
	2021	9	..	260	..	..	..	..	7	..
Zambia	2018	13	..	..	..	..	..	..	..	13
	2019	14	..	..	..	..	..	..	..	14
	2020	7	..	..	..	..	..	..	..	7
	2021	1	..	..	..	..	..	..	..	1
Asia	**2018**	**61,369**	**..**	**192,014**	**16,140**	**58,634**	**3,181**	**62,240**	**2,473**	**170,799**
	2019	**62,608**	**..**	**196,835**	**15,246**	**60,490**	**3,410**	**54,545**	**1,995**	**195,011**
	2020	**60,125**	**..**	**195,043**	**15,165**	**62,548**	**2,819**	**51,218**	**1,805**	**242,737**
	2021	**64,666**	**..**	**215,366**	**16,770**	**60,780**	**3,257**	**56,493**	**1,801**	**245,205**
Afghanistan	2018	..	..	..	..	*20	..	..	..	..
	2019	..	..	..	..	*12	..	..	..	..
	2020	..	..	..	..	*5	..	..	..	..
	2021	..	..	..	..	*6	..	..	..	..
Azerbaijan	2018	214	..	205	52	290	..	244	..	606
	2019	242	..	247	36	260	..	238	..	626
	2020	228	..	217	36	375	..	197	..	626
	2021	246	..	378	58	362	..	256	..	656
Bahrain	2018	..	..	1,655	..	316	..	..	..	551
	2019	..	..	1,706	..	331	..	..	..	489
	2020	..	..	1,562	..	345	..	..	..	411
	2021	..	..	1,635	..	190	..	..	..	488
Bangladesh	2018	14	..	97	20	58	..	..	5	20
	2019	15	..	101	23	70	..	..	3	11
	2020	12	..	77	21	31	..	..	0	13
	2021	17	..	144	21	53	..	..	..	9
Brunei Darussalam	2018	18	..	..	..	..	..	..	..	..
	2019	14	..	..	..	..	..	..	..	243
	2020	4	..	687	..	..	..	..	..	2,315
	2021	..	..	1,050	..	..	..	..	..	2,090
China	2018	20,132	..	60,255	2,206	26,877	2,795	26,636	1,088	118,749
	2019	21,879	..	66,201	2,324	29,704	3,089	28,388	824	149,225
	2020	23,486	..	71,907	2,634	33,215	2,494	29,146	400	193,339
	2021	24,797	..	83,808	2,443	33,530	2,921	30,411	624	186,437
Georgia	2018	..	..	3	..	..	..	..	..	..
	2019	..	..	4	..	..	..	..	..	..
	2020	..	..	3	..	1	..	..	..	..
	2021	..	..	4	..	1	..	..	..	..

Table 24

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
India	2018	*14,117	..	*18,536	949	5,803	*117	*14,676	..	*29,973
	2019	*15,470	..	*19,399	932	5,244	*96	15,528	..	18,384
	2020	*13,552	..	*18,421	1,069	5,245	*97	*12,655	..	*17,103
	2021	*14,746	..	19,994	1,173	5,111	*101	*15,508	..	*18,772
Indonesia	2018	690	..	1,666	390	164	19	554	27	4,096
	2019	694	..	1,619	326	100	19	550	19	3,155
	2020	628	..	1,883	330	97	*19	*550	20	3,778
	2021	564	..	27	305	147	*19	*550	*20	3,083
Iran (Islamic Rep. of)	2018	1,529	..	3,030	1,720	4,662	..	..	528	761
	2019	1,946	..	2,594	1,800	4,872	..	..	317	779
	2020	2,008	..	3,904	1,842	4,666	..	..	439	733
	2021	2,081	..	4,127	1,914	4,848	..	..	456	774
Iraq	2018	193	..	1,522	57	153	3	..	..	123
	2019	205	..	1,890	70	190	3	..	..	153
	2020	178	..	2,063	77	208	4	..	..	167
	2021	203	..	2,456	91	247	4	..	..	198
Israel	2018	567	..	1,153	..	308	..	..	..	588
	2019	615	..	1,383	..	264	..	..	..	401
	2020	706	..	1,392	..	310	..	..	..	497
	2021	496	..	1,402	..	290	..	..	..	592
Japan	2018	6,356	..	12,385	2,181	2,854	70	1,345	71	2,192
	2019	5,833	..	12,546	2,013	2,744	71	1,075	62	2,038
	2020	4,988	..	9,086	1,808	2,277	80	1,021	45	1,768
	2021	5,401	..	9,868	1,755	2,247	81	1,246	49	1,859
Jordan	2018	42	..	..	19	127	..	..	..	*3
	2019	*40	..	..	14	*176	..	..	..	*3
	2020	*35	..	..	12	*135	..	..	..	*2
	2021	*36	..	..	12	*96	..	..	..	*2
Kazakhstan	2018	177	..	..	26	926	..	530	6	..
	2019	264	..	..	32	989	..	507	9	..
	2020	343	..	..	52	1,090	..	526	10	..
	2021	930	..	..	49	1,006	..	552	9	..
Korea, Republic of	2018	4,365	..	36,933	3,307	4,489	15	408	456	2,737
	2019	4,729	..	36,758	2,567	5,043	19	634	472	2,708
	2020	4,370	..	33,734	2,797	4,131	22	584	669	3,224
	2021	4,061	..	33,600	4,443	2,535	27	639	420	4,002
Kuwait	2018	322	..	5,613	..	183	..	..	..	471
	2019	288	..	5,561	..	241	..	..	..	421
	2020	265	..	5,528	..	277	..	..	..	402
	2021	315	..	7,319	..	296	..	..	..	461
Kyrgyzstan	2018	..	..	..	..	35	..	..	..	..
	2019	..	..	..	..	2	..	..	..	..
	2020	..	..	..	..	0	..	..	..	..
	2021	..	..	..	..	..	..	..	..	..
Malaysia	2018	128	..	1,818	279	405	32	20	..	..
	2019	135	..	*1,506	*231	*335	*27	17	..	..
	2020	144	..	*2,818	*279	*405	*32	*20	..	..
	2021	142	..	*1,995	*190	*274	*25	*15	..	..
Myanmar	2018	..	..	..	..	..	0	9	..	4
	2019	..	..	..	..	..	0	11	..	0
	2020	..	..	..	..	..	..	13	..	27
	2021	..	..	..	..	..	..	9	..	1

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
Oman	2018	149	..	1,375	75	..	..	..	..	1,068
	2019	136	..	1,374	68	..	..	..	..	1,043
	2020	116	..	1,448	58	..	..	..	..	803
	2021	137	..	1,535	68	..	..	..	..	728
Other Asia	2018	2,550	..	9,663	612	700	..	1,418	38	1,064
	2019	2,590	..	9,541	737	738	..	1,365	40	1,060
	2020	2,345	..	8,533	644	686	..	1,065	31	854
	2021	2,421	..	9,198	584	588	..	1,230	40	1,200
Pakistan	2018	*33	..	571	198	*225	2	..	..	*28
	2019	*32	..	396	140	*164	2	..	..	*21
	2020	*37	..	380	155	164	2	..	..	*23
	2021	*36	..	335	167	207	10	..	..	101
Philippines	2018	..	..	241	..	16	..	..	..	1,496
	2019	..	..	161	..	47	..	..	..	782
	2020	..	..	86	..	3	..	..	..	565
	2021	..	..	0	..	0	..	..	..	722
Qatar	2018	58	..	4,965	..	..	..	..	..	720
	2019	63	..	4,689	..	..	..	..	..	1,730
	2020	49	..	3,919	..	..	..	..	..	2,614
	2021	57	..	6,016	..	..	..	..	..	927
Saudi Arabia	2018	4,248	..	7,175	..	2,301	..	15,299	..	1,307
	2019	*2,204	..	6,072	..	2,340	..	4,805	..	*3,503
	2020	*2,013	..	5,340	..	2,095	..	3,713	..	*3,403
	2021	*3,327	..	7,570	..	2,501	..	*4,130	..	*11,654
Singapore	2018	3,154	..	2,898	3,110	2,871	76	194	216	410
	2019	2,916	..	4,296	3,184	2,689	75	182	206	350
	2020	2,345	..	3,605	2,653	2,240	67	151	168	292
	2021	2,335	..	3,519	2,697	2,277	66	154	171	297
Sri Lanka	2018	22	..	141	..	13	..	..	2	..
	2019	27	..	162	..	17	..	..	2	..
	2020	27	..	164	..	14	..	..	1	..
	2021	10	..	107	..	..	..	..	3	..
Syrian Arab Republic	2018	91	..	559	25	311	..	..	..	16
	2019	81	..	502	22	279	..	..	..	15
	2020	85	..	524	23	291	..	..	..	15
	2021	82	..	506	22	282	..	..	..	15
Tajikistan	2018	..	..	..	..	3	..	..	..	..
	2019	..	..	..	..	3	..	..	..	..
	2020	..	..	..	..	3	..	..	..	..
	2021	..	..	..	..	3	..	..	..	..
Thailand	2018	570	..	10,437	..	1,377	..	..	..	1,140
	2019	511	..	9,454	..	1,257	..	..	..	1,023
	2020	502	..	9,279	..	1,376	..	..	..	1,003
	2021	497	..	9,129	..	1,510	..	..	..	993
Türkiye	2018	1,004	..	375	218	2,981	32	868	5	720
	2019	1,084	..	1,138	125	2,248	..	1,213	11	1,901
	2020	1,134	..	1,504	75	2,765	..	1,536	14	2,673
	2021	1,158	..	1,895	139	2,039	..	1,751	2	2,883
Turkmenistan	2018	106	..	..	..	..	..	..	..	370
	2019	104	..	..	..	..	..	..	..	370
	2020	102	..	..	..	..	..	..	..	370
	2021	100	..	..	..	..	..	..	..	370

Table 24

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
United Arab Emirates	2018	406	..	8,300	578	..	..	..	..	1,332
	2019	377	..	7,123	541	..	..	..	..	4,114
	2020	333	..	6,694	508	..	..	..	..	3,866
	2021	380	..	7,499	570	..	..	..	..	4,331
Uzbekistan	2018	114	..	..	98	153	21	39	31	..
	2019	*114	..	..	60	117	8	32	30	..
	2020	91	..	..	92	89	2	41	8	..
	2021	91	..	..	70	126	2	41	8	239
Viet Nam	2018	..	..	..	20	..	..	..	..	254
	2019	..	..	..	..	..	..	..	..	465
	2020	..	..	..	..	..	..	..	..	1,852
	2021	..	..	..	..	..	..	..	..	1,322
Yemen	2018	..	..	443	..	14	..	..	..	..
	2019	..	..	410	..	13	..	..	..	..
	2020	..	..	286	..	9	..	..	..	..
	2021	..	..	251	..	8	..	..	..	..
Europe	**2018**	**37,767**	**1,927**	**73,133**	**18,748**	**26,471**	**1,097**	**16,007**	**1,893**	**31,099**
	2019	**37,591**	**1,914**	**70,276**	**20,801**	**26,703**	**1,029**	**16,476**	**1,921**	**30,468**
	2020	**35,122**	**1,918**	**67,026**	**20,429**	**26,300**	**999**	**15,920**	**2,423**	**31,049**
	2021	**35,721**	**1,912**	**67,663**	**21,929**	**26,406**	**1,217**	**15,881**	**2,775**	**31,819**
Albania	2018	9	..	29	..	26	..	58	..	66
	2019	7	..	23	..	105	..	54	..	58
	2020	3	..	18	..	75	..	10	..	15
	2021	3	..	22	..	106	..	..	..	27
Austria	2018	281	..	1,028	0	369	..	71	..	21
	2019	316	..	1,006	0	395	..	67	..	23
	2020	284	..	1,051	0	424	..	73	..	45
	2021	296	..	1,087	..	440	..	74	..	46
Belarus	2018	697	..	..	..	781	..	..	..	1,245
	2019	713	..	..	..	819	..	..	..	1,021
	2020	644	..	..	..	979	..	..	..	1,293
	2021	644	..	..	..	979	..	..	..	1,293
Belgium	2018	824	..	2,611	..	..	..	400	..	2,488
	2019	685	..	2,769	..	..	..	1,047	..	3,830
	2020	499	..	2,481	..	143	..	825	..	3,171
	2021	610	..	2,552	..	..	..	1,033	..	4,422
Bosnia and Herzegovina	2018	..	..	7	40	146	..	..	..	19
	2019	..	..	1	16	4	..	..	..	..
	2020	..	..	..	13	..	..	..	..	..
	2021	..	..	..	13	..	..	..	..	..
Bulgaria	2018	294	..	372	..	84	..	75	3	4
	2019	374	..	487	..	105	..	85	3	2
	2020	324	..	372	..	115	..	58	3	1
	2021	290	..	338	..	157	..	45	3	26
Croatia	2018	187	..	39	11	1	..	58	..	106
	2019	129	..	14	10	..	..	67	..	25
	2020	114	..	36	10	..	..	22	..	86
	2021	99	..	9	9	..	..	24	..	57
Czechia	2018	140	..	930	95	566	11	89	..	669
	2019	148	..	911	92	547	9	99	..	636
	2020	112	..	707	82	451	9	77	..	553
	2021	135	..	888	78	438	10	90	..	594

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
Denmark	2018	301	..	..	..	..	..	..	..	..
	2019	320	..	..	..	..	..	..	..	..
	2020	308	..	..	..	..	..	..	..	..
	2021	326	..	..	..	..	..	..	..	..
Finland	2018	508	..	70	305	225	..	100	140	38
	2019	538	..	133	299	218	..	109	155	46
	2020	495	..	91	250	271	..	104	152	6
	2021	359	..	32	230	28	..	81	102	0
France	2018	1,167	7	5,387	571	2,056	71	481	85	859
	2019	1,178	9	4,267	555	1,976	63	387	68	821
	2020	905	8	3,324	491	1,560	54	336	35	732
	2021	754	2	3,508	534	1,637	48	282	55	640
Germany	2018	3,742	..	6,373	2,460	4,083	219	1,715	174	1,238
	2019	3,835	..	6,662	2,282	3,915	306	1,705	414	1,337
	2020	3,538	..	6,820	2,400	3,755	311	1,682	537	1,227
	2021	3,481	..	7,382	2,651	4,108	313	1,727	626	1,335
Greece	2018	839	..	1,795	281	1,142	..	583	..	1,271
	2019	776	..	1,618	251	1,549	..	505	..	1,389
	2020	660	..	2,259	236	1,753	..	489	..	1,345
	2021	738	..	2,094	231	1,475	..	496	..	1,284
Hungary	2018	207	..	1,036	135	404	34	330	19	752
	2019	206	..	880	124	407	31	317	16	783
	2020	203	..	983	127	410	34	337	19	736
	2021	180	..	1,018	122	413	32	288	28	788
Ireland	2018	76	..	35	..	..	..	..	..	..
	2019	62	..	42	..	..	..	..	..	..
	2020	69	..	89	..	..	..	..	..	..
	2021	70	..	89	..	..	..	..	..	..
Italy	2018	2,790	..	5,108	1,347	2,554	100	759	3	2,907
	2019	2,733	..	4,965	755	2,750	83	769	3	2,379
	2020	2,322	..	3,919	1,013	3,083	96	588	3	2,640
	2021	2,364	..	3,396	1,012	3,017	82	811	2	2,075
Lithuania	2018	332	..	..	72	242	..	121	..	94
	2019	302	..	..	86	372	..	122	..	86
	2020	247	..	..	88	357	..	102	..	71
	2021	278	..	..	100	288	..	111	..	73
Netherlands (Kingd. of the)	2018	1,946	..	11,572	..	330	174	391	114	2,319
	2019	2,291	..	11,446	561	252	55	443	82	2,591
	2020	1,921	..	10,801	643	637	39	420	467	1,017
	2021	2,188	..	10,553	1,212	739	224	429	405	1,672
Norway	2018	478	..	1,281	..	..	..	485	..	..
	2019	426	..	1,329	..	..	..	363	..	..
	2020	406	..	1,417	..	..	..	368	..	..
	2021	424	..	1,395	..	..	..	484	..	..
Poland	2018	623	..	2,000	472	1,494	87	..	113	1,164
	2019	702	..	2,020	415	1,485	87	30	107	1,340
	2020	777	..	2,138	393	1,529	84	293	140	1,476
	2021	851	..	1,857	429	1,401	88	292	129	1,292
Portugal	2018	11	..	1,018	116	132	9	..	16	775
	2019	13	..	1,091	103	171	8	..	8	729
	2020	16	..	953	137	190	6	..	12	688
	2021	36	..	689	54	66	3	..	4	572

Table 24

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
Republic of Moldova	2018	..	..	..	0	0	..	..	..	1
	2019	..	..	..	..	0	..	..	..	1
	2020	..	..	..	..	..	..	..	..	0
	2021	..	..	..	0	..	..	..	..	..
Romania	2018	788	..	193	..	102	..	838	132	254
	2019	842	..	181	..	120	..	846	138	247
	2020	726	..	150	..	123	..	768	111	246
	2021	696	..	166	..	93	..	746	107	285
Russian Federation	2018	*15,350	*1,920	27,236	11,480	6,912	246	3,829	845	9,267
	2019	*15,400	*1,905	25,783	14,144	7,069	243	3,971	717	6,275
	2020	*15,400	*1,910	25,010	13,598	6,797	233	4,328	809	6,033
	2021	*15,400	*1,910	26,043	14,156	7,075	243	4,369	1,169	6,279
Serbia	2018	59	..	449	13	416	..	12	0	188
	2019	62	..	398	14	398	..	12	..	203
	2020	63	..	456	9	398	..	49	..	197
	2021	70	..	540	9	390	..	104	..	166
Slovakia	2018	528	..	397	..	..	..	55	..	127
	2019	494	..	430	..	..	..	38	..	148
	2020	504	..	534	..	..	..	49	..	351
	2021	556	..	584	..	..	..	54	..	300
Spain	2018	2,236	..	1,756	415	2,630	90	3,802	243	2,319
	2019	2,113	..	1,438	354	2,373	78	3,604	202	2,474
	2020	1,907	..	1,309	317	1,908	72	3,529	129	3,083
	2021	1,953	..	1,444	308	2,191	76	2,887	144	2,621
Sweden	2018	822	..	188	355	733	..	69	..	122
	2019	489	..	293	297	760	..	42	..	1,728
	2020	570	..	248	227	654	..	11	..	4,094
	2021	929	..	358	311	576	..	71	..	3,608
Switzerland	2018	131	..	16	..	..	..	..	..	45
	2019	119	..	19	..	..	..	..	..	30
	2020	121	..	15	..	..	..	..	..	28
	2021	102	..	21	..	..	..	..	..	27
Ukraine	2018	35	..	..	147	170	..	..	..	1,282
	2019	41	..	..	150	23	..	..	..	432
	2020	50	..	..	108	52	..	..	..	448
	2021	55	..	..	130	62	..	..	..	730
United Kingdom	2018	2,368	..	2,209	436	875	55	1,685	7	1,459
	2019	2,277	..	2,072	293	892	68	1,793	8	1,835
	2020	1,933	..	1,844	286	638	60	1,401	7	1,469
	2021	1,836	..	1,599	342	727	100	1,382	2	1,608
Latin America & Carib.	**2018**	**9,261**	**..**	**8,540**	**1,522**	**4,588**	**80**	**10,699**	**453**	**6,836**
	2019	**9,077**	**..**	**8,656**	**1,333**	**3,779**	**77**	**10,604**	**433**	**7,024**
	2020	**8,252**	**..**	**9,938**	**1,390**	**4,284**	**77**	**9,450**	**440**	**5,281**
	2021	**9,589**	**..**	**8,375**	**1,143**	**3,939**	**76**	**9,077**	**545**	**5,560**
Argentina	2018	1,072	..	400	225	396	7	1,511	201	..
	2019	925	..	640	218	328	8	1,462	196	..
	2020	876	..	1,157	178	233	8	*1,249	204	..
	2021	1,060	..	1,097	203	336	10	1,301	200	..
Bolivia (Plur. State of)	2018	98	..	0	23	1	0	..	..	150
	2019	89	..	0	21	1	0	..	..	101
	2020	95	..	0	16	1	1	..	..	59
	2021	92	..	0	18	2	0	..	..	53

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
Brazil	2018	4,264	..	2,944	785	1,900	..	5,093	237	2,312
	2019	4,022	..	3,250	784	1,722	..	5,029	224	2,448
	2020	4,058	..	4,486	806	2,318	..	4,938	225	2,038
	2021	4,430	..	3,347	534	1,943	..	4,529	333	2,214
Chile	2018	215	..	64	..	..	..	443	..	608
	2019	242	..	137	..	..	..	464	..	431
	2020	175	..	60	..	..	..	325	..	690
	2021	192	..	233	..	..	..	410	..	611
Colombia	2018	..	..	1,164	139	263	37	953	..	439
	2019	253	..	942	139	198	37	891	..	1,493
	2020	254	..	1,509	139	80	37	692	..	657
	2021	541	..	1,509	139	94	37	808	..	769
Cuba	2018	4	..	301	51	63	..	1	..	..
	2019	5	..	105	33	38	..	1	..	..
	2020	14	..	148	36	34	..	4	..	..
	2021	8	..	172	31	29	..	..	..	..
Curaçao	2018	52	..	48	32	37	..	47	..	93
	2019	0	..	0	0	0	..	0	..	0
	2020	..	..	..	..	..	..	..	..	..
	2021	..	..	..	..	..	..	..	..	..
Dominican Republic	2018	14	..	..	..	..	..	..	..	..
	2019	11	..	..	..	..	..	..	..	..
	2020	4	..	..	..	..	..	..	..	..
	2021	11	..	..	..	..	..	..	..	..
Ecuador	2018	51	..	..	..	..	..	..	..	848
	2019	50	..	..	..	..	..	..	..	824
	2020	40	..	..	..	..	..	..	..	757
	2021	44	..	..	..	..	..	..	..	829
Guatemala	2018	..	..	..	..	97	..	..	..	..
	2019	..	..	..	..	146	..	..	..	..
	2020	..	..	..	..	110	..	..	..	..
	2021	..	..	..	..	132	..	..	..	..
Jamaica	2018	..	..	0	..	*10	..	..	..	..
	2019	..	..	..	..	*20	..	..	..	..
	2020	..	..	..	..	11	..	..	..	..
	2021	..	..	..	..	11	..	..	..	..
Mexico	2018	1,816	..	2,046	155	1,175	26	1,030	..	93
	2019	2,319	..	2,201	56	792	24	1,819	..	94
	2020	2,162	..	1,747	157	1,187	26	1,579	..	95
	2021	2,709	..	1,554	160	1,206	26	1,490	..	113
Nicaragua	2018	15	..	..	..	21	..	..	13	..
	2019	24	..	..	..	4	..	..	10	..
	2020	24	..	..	..	..	..	..	9	..
	2021	30	..	..	..	..	..	..	10	..
Peru	2018	139	..	..	..	..	..	..	..	276
	2019	149	..	..	..	..	..	..	..	248
	2020	50	..	..	..	..	..	..	..	266
	2021	56	..	..	..	..	..	..	..	323
Suriname	2018	..	..	..	..	4	..	..	..	..
	2019	..	..	..	..	10	..	..	..	..
	2020	..	..	..	..	5	..	..	..	..
	2021	..	..	..	..	*4	..	..	..	..

Table 24

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
Trinidad and Tobago	2018	88	..	..	..	11	..	..	..	50
	2019	..	..	..	..	..	..	..	..	..
	2020	..	..	..	..	..	..	..	..	..
	2021	..	..	..	..	..	..	..	..	..
Uruguay	2018	58	..	..	..	102	..	37	2	..
	2019	54	..	..	..	75	..	31	2	..
	2020	61	..	..	..	39	..	30	2	..
	2021	57	..	..	..	34	..	35	2	..
Venezuela (Bolivar. Rep.)	2018	1,374	..	1,573	112	507	9	1,584	..	1,967
	2019	934	..	1,381	81	445	8	907	..	1,386
	2020	439	..	830	57	268	5	633	..	719
	2021	359	..	464	57	150	3	504	..	648
Northern America	**2018**	**18,536**	**128**	**11,235**	**10,660**	**24,886**	**213**	**61,004**	**1,620**	**16,350**
	2019	**18,238**	**107**	**9,405**	**9,096**	**24,452**	**203**	**57,392**	**1,365**	**30,614**
	2020	**16,574**	**130**	**8,221**	**8,394**	**24,778**	**175**	**52,294**	**1,435**	**27,116**
	2021	**17,189**	**89**	**8,233**	**9,084**	**26,865**	**211**	**52,127**	**1,356**	**28,928**
Canada	2018	2,948	..	1,939	1,127	5,420	..	1,301	82	3,372
	2019	3,411	..	1,166	473	5,415	..	1,486	13	18,516
	2020	2,991	..	963	519	5,516	..	1,329	66	15,854
	2021	2,915	..	900	419	6,361	..	1,470	14	16,786
United States	2018	15,588	128	9,296	9,533	19,466	213	59,703	1,538	12,978
	2019	14,827	107	8,239	8,623	19,037	203	55,906	1,352	12,098
	2020	13,583	130	7,258	7,875	19,262	175	50,965	1,370	11,262
	2021	14,274	89	7,333	8,665	20,504	211	50,657	1,342	12,143
Oceania	**2018**	**1,058**	**..**	**743**	**..**	**164**	**..**	**321**	**72**	**88**
	2019	**1,065**	**..**	**433**	**..**	**125**	**..**	**238**	**..**	**2,691**
	2020	**897**	**..**	**606**	**..**	**89**	**..**	**177**	**..**	**3,188**
	2021	**749**	**..**	**607**	**..**	**3**	**..**	**88**	**..**	**2,897**
Australia	2018	808	..	310	..	98	..	321	72	11
	2019	807	..	..	..	..	..	238	..	2,265
	2020	713	..	..	..	..	..	177	..	2,552
	2021	627	..	..	..	..	..	88	..	2,581
New Zealand	2018	250	..	..	..	66	..	..	..	64
	2019	258	..	..	..	125	..	..	..	402
	2020	184	..	..	..	89	..	..	..	616
	2021	122	..	..	..	3	..	..	..	296
Papua New Guinea	2018	..	..	433	..	..	..	..	..	14
	2019	..	..	433	..	..	..	..	..	25
	2020	..	..	606	..	..	..	..	..	20
	2021	..	..	*607	..	..	..	..	..	*20

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 67: Production of selected oil products from refineries, 1990-2021

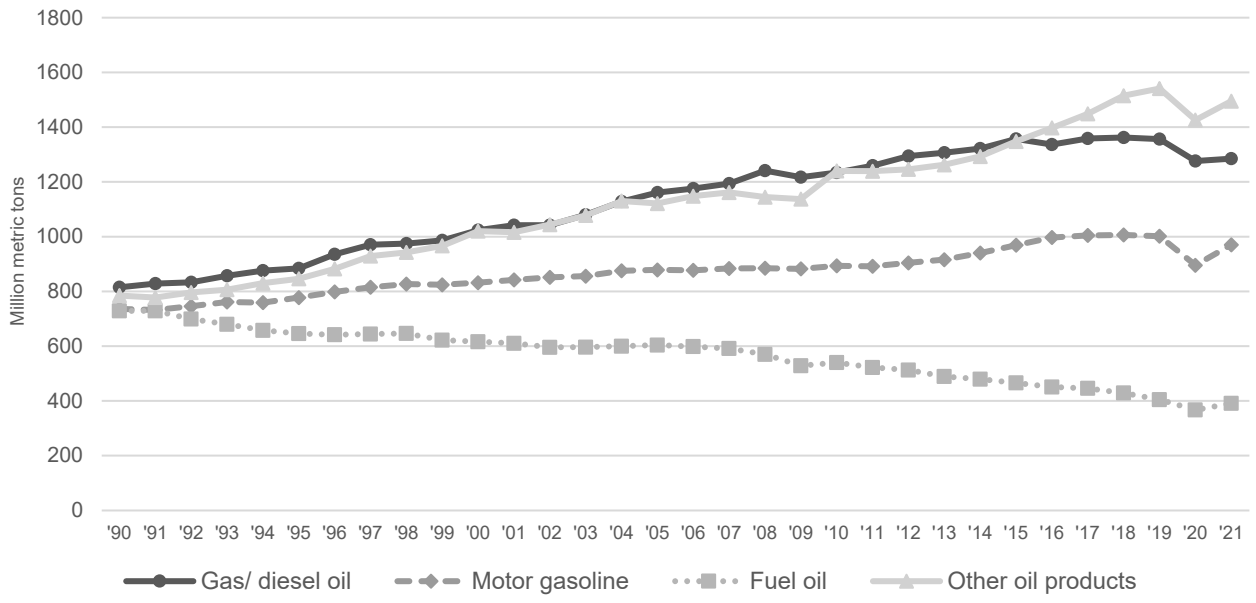


Table 25

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	**2018**	**4,312,782**	**1,362,332**	**1,006,504**	**428,894**	**296,339**	**335,888**	**129,218**	**142,542**	**55,377**	**555,688**
	2019	**4,303,838**	**1,356,440**	**1,001,682**	**404,397**	**295,670**	**338,723**	**129,870**	**143,271**	**50,912**	**582,873**
	2020	**3,964,537**	**1,275,979**	**895,643**	**366,750**	**291,208**	**209,093**	**121,798**	**137,875**	**48,777**	**617,414**
	2021	**4,141,884**	**1,284,908**	**970,347**	**391,204**	**311,418**	**226,301**	**128,622**	**149,877**	**47,505**	**631,701**
Africa	**2018**	**99,299**	**31,639**	**17,724**	**21,524**	**10,675**	**7,645**	**1,227**	**2,315**	**1,257**	**5,294**
	2019	**97,529**	**33,551**	**16,360**	**21,973**	**10,066**	**8,131**	**1,291**	**1,953**	**873**	**3,333**
	2020	**87,665**	**30,428**	**14,822**	**19,235**	**10,375**	**5,736**	**829**	**2,032**	**820**	**3,388**
	2021	**82,758**	**28,728**	**12,886**	**18,562**	**11,175**	**4,593**	**710**	**1,825**	**813**	**3,466**
Algeria	2018	29,933	10,189	3,749	5,822	7,634	1,515	..	658	*19	347
	2019	28,256	9,590	3,253	5,915	7,268	1,221	..	658	*16	335
	2020	27,815	9,503	3,105	5,920	7,341	992	..	672	22	260
	2021	27,985	9,730	3,406	5,447	7,572	849	..	705	11	265
Angola	2018	1,897	436	5	614	244	228	53	17	36	264
	2019	2,563	615	39	1,072	333	329	74	28	24	49
	2020	1,995	548	11	574	348	294	25	25	143	27
	2021	1,859	481	14	569	356	225	25	25	121	44
Cameroon	2018	1,191	427	218	201	..	79	50	10	90	116
	2019	616	221	113	104	..	41	26	5	47	60
	2020	..	..	..	..	..	..	..	..	..	..
	2021	..	..	..	..	..	..	..	..	..	..
Chad	2018	*656	*348	*157	*24	..	*38	..	*32	*4	*53
	2019	*680	*353	*171	*26	..	*37	..	*35	*4	*54
	2020	*705	*368	*181	*20	..	*39	..	*42	*3	*52
	2021	*773	*407	*201	*26	..	*39	..	*46	*4	*53
Congo	2018	725	217	65	362	9	38	..	8	7	19
	2019	735	221	65	368	10	38	..	8	7	19
	2020	713	210	62	367	9	33	..	8	4	19
	2021	738	218	64	380	9	34	..	8	5	19
Côte d'Ivoire	2018	3,366	1,241	771	652	..	359	20	18	..	305
	2019	3,711	1,411	844	704	..	552	23	22	..	155
	2020	3,329	1,342	929	632	..	236	21	22	..	149
	2021	4,111	1,648	1,287	701	..	268	24	13	..	170
Egypt	2018	26,083	7,640	4,827	7,444	737	2,162	130	591	33	2,519
	2019	28,310	8,046	5,258	9,009	833	2,744	142	571	41	1,666
	2020	29,692	9,901	5,314	7,869	1,660	2,261	157	647	43	1,839
	2021	27,332	8,856	4,146	8,053	1,935	1,695	159	601	33	1,855
Gabon	2018	671	254	29	313	..	36	..	5	22	11
	2019	619	203	30	313	..	36	..	5	22	9
	2020	818	241	54	438	..	39	..	10	23	13
	2021	932	304	66	492	..	28	..	11	17	14
Ghana	2018	310	114	102	32	..	22	..	8	33	..
	2019	624	198	125	205	..	80	..	4	12	..
	2020	496	150	66	216	..	28	..	1	35	..
	2021	285	70	43	145	..	1	..	2	24	..
Libya	2018	5,598	1,563	391	1,850	948	646	113	35	17	35
	2019	4,020	1,116	227	1,263	842	421	82	34	10	25
	2020	2,839	787	160	891	594	297	58	24	11	18
	2021	3,772	1,011	205	1,143	762	499	77	30	19	24
Niger	2018	763	492	197	..	..	3	..	53	..	19
	2019	634	382	175	..	..	0	..	60	..	17
	2020	767	455	250	..	..	0	..	60	..	2
	2021	722	425	*227	..	..	..	..	55	..	*15

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
Nigeria	2018	2,389	347	368	552	158	27	57	48	327	503
	2019	528	81	107	224	36	5	12	3	60	1
	2020	0	0	0	0	0	0	0	0	0	0
	2021	123	62	..	47	..	1	..	..	13	..
Senegal	2018	981	576	93	220	76	..	13	3	..	..
	2019	886	522	84	191	71	..	12	3	2	..
	2020	757	472	64	179	30	..	10	3	..	..
	2021	868	520	78	187	68	..	11	3	..	..
South Africa	2018	19,125	5,417	5,668	2,753	618	2,444	758	246	605	616
	2019	21,120	8,539	4,795	2,238	632	2,587	886	221	596	628
	2020	12,803	4,258	3,492	1,570	200	1,503	524	199	504	552
	2021	8,976	3,227	2,240	751	210	916	384	137	537	573
South Sudan	2018	..	..	..	..	..	..	..	..	..	..
	2019	..	..	..	..	..	..	..	..	..	..
	2020	..	..	..	..	..	..	..	..	..	..
	2021	110	110	..	..	..	..	..	..	..	..
Sudan	2018	3,943	1,696	925	228	9	38	*20	555	10	462
	2019	*3,427	*1,717	*937	*116	*9	*39	*20	*281	*10	*299
	2020	3,483	1,611	1,011	*85	*1	15	*20	293	*2	*445
	2021	*2,526	*986	*817	*66	*1	*38	*20	*161	*10	*426
Tunisia	2018	1,074	407	23	338	241	..	..	18	34	13
	2019	141	41	..	52	33	..	..	3	11	2
	2020	1,108	421	49	394	191	..	6	20	20	6
	2021	1,593	657	78	537	260	..	9	27	18	7
Zambia	2018	595	274	136	119	..	11	13	9	21	13
	2019	658	294	138	172	..	2	14	11	13	14
	2020	344	161	74	80	..	0	7	5	9	7
	2021	54	18	14	17	..	..	1	0	2	1
Asia	**2018**	**2,031,119**	**625,528**	**361,487**	**195,363**	**192,014**	**168,640**	**61,369**	**74,270**	**38,983**	**313,466**
	2019	**2,049,689**	**616,461**	**372,557**	**187,029**	**196,835**	**172,385**	**62,608**	**75,584**	**35,534**	**330,696**
	2020	**1,971,785**	**586,748**	**345,153**	**182,521**	**195,043**	**114,463**	**60,125**	**75,625**	**35,816**	**376,291**
	2021	**2,082,119**	**600,220**	**382,793**	**199,760**	**215,366**	**116,182**	**64,666**	**84,533**	**34,292**	**384,306**
Afghanistan	2018	*176	*68	*68	*20	..	..	..	..	..	*20
	2019	*112	*44	*44	*12	..	..	..	..	..	*12
	2020	*46	*18	*18	*5	..	..	..	..	..	*5
	2021	*50	*19	*20	*5	..	..	..	..	..	*6
Azerbaijan	2018	5,963	2,148	1,186	107	205	708	214	204	..	1,192
	2019	6,045	2,243	1,161	127	247	667	242	198	..	1,161
	2020	5,795	2,181	1,167	62	217	519	228	187	..	1,234
	2021	6,572	2,482	1,266	106	378	492	246	270	..	1,332
Bahrain	2018	13,227	4,083	741	2,599	1,655	3,116	..	166	0	867
	2019	13,386	4,210	755	2,662	1,706	3,097	..	136	0	820
	2020	11,200	3,947	537	1,948	1,562	2,326	..	124	..	756
	2021	11,517	4,440	472	2,250	1,635	1,932	..	110	..	678
Bangladesh	2018	1,249	499	94	304	97	1	14	10	127	103
	2019	1,408	638	95	344	101	..	15	13	95	107
	2020	1,058	451	84	275	77	1	12	9	83	65
	2021	1,545	726	75	416	144	..	17	12	73	82
Brunei Darussalam	2018	320	110	133	..	..	55	18	..	4	..
	2019	1,330	422	325	..	..	248	14	75	3	243
	2020	8,137	2,682	1,505	5	687	334	4	601	5	2,315
	2021	7,889	2,540	1,497	..	1,050	94	..	613	5	2,090

Table 25

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
China	2018	711,792	183,601	142,647	38,997	60,255	47,216	20,132	39,156	1,437	178,351
	2019	763,910	173,083	147,816	45,061	66,201	52,502	21,879	42,100	1,715	213,554
	2020	808,477	165,299	*141,618	57,807	71,907	*39,713	23,486	44,890	*2,531	261,227
	2021	842,814	168,470	*159,603	60,407	83,808	*40,206	24,797	47,855	*1,303	256,366
Georgia	2018	22	10	1	9	3	..	..	..	..	..
	2019	37	15	1	16	4	..	..	..	..	..
	2020	37	12	10	12	3	..	..	..	..	1
	2021	50	18	9	18	4	..	..	..	..	1
India	2018	273,711	111,236	38,039	10,032	*18,536	*15,461	*14,117	*10,700	4,072	*51,518
	2019	263,195	111,841	38,616	8,609	*19,399	*15,212	*15,470	10,723	3,141	40,184
	2020	231,656	101,170	35,779	*6,882	*18,421	*7,077	*13,552	10,213	2,393	*36,169
	2021	256,275	107,980	40,238	8,237	19,994	*10,261	*14,746	12,238	1,916	*40,665
Indonesia	2018	38,887	17,614	7,746	1,258	1,666	2,993	690	891	779	5,250
	2019	41,413	17,307	11,310	1,168	1,619	3,389	694	861	896	4,170
	2020	40,752	16,769	11,496	*1,273	1,883	2,446	628	850	614	4,794
	2021	40,672	17,883	10,942	*3,928	27	1,924	564	864	*415	4,124
Iran (Islamic Rep. of)	2018	87,365	28,608	17,743	22,136	3,030	1,633	1,529	2,120	2,895	7,670
	2019	87,054	28,566	18,169	22,048	2,594	1,461	1,946	2,396	2,107	7,768
	2020	84,376	27,049	17,091	21,364	3,904	806	2,008	2,262	2,212	7,679
	2021	87,887	28,404	18,065	21,984	4,127	1,132	2,081	2,350	1,752	7,992
Iraq	2018	28,267	5,291	2,832	16,182	1,522	212	193	252	1,447	335
	2019	29,738	5,825	2,553	16,880	1,890	235	205	208	1,526	416
	2020	25,820	5,239	2,063	14,169	2,063	106	178	237	1,312	454
	2021	25,367	4,976	1,940	13,458	2,456	176	203	236	1,382	541
Israel	2018	14,782	4,789	3,055	2,576	1,153	1,325	567	422	..	895
	2019	15,268	5,389	2,946	2,425	1,383	1,420	615	425	..	665
	2020	12,832	4,973	2,491	1,531	1,392	557	706	374	..	807
	2021	13,411	5,186	2,686	1,637	1,402	694	496	429	..	883
Japan	2018	150,956	44,574	37,464	14,735	12,385	12,194	6,356	3,755	10,780	8,713
	2019	147,427	44,287	36,020	14,321	12,546	12,238	5,833	3,401	10,777	8,004
	2020	121,293	37,088	31,997	12,589	9,086	5,045	4,988	2,846	10,655	6,999
	2021	128,964	39,274	33,455	14,219	9,868	6,711	5,401	2,963	9,837	7,236
Jordan	2018	2,264	738	483	458	..	319	42	65	11	149
	2019	2,174	759	547	369	..	163	*40	68	*35	*193
	2020	1,780	614	366	342	..	143	*35	54	78	*149
	2021	1,911	650	443	356	..	201	*36	61	54	*110
Kazakhstan	2018	14,617	4,664	3,955	2,948	..	387	177	995	5	1,486
	2019	15,910	5,033	4,533	2,875	..	629	264	1,035	5	1,536
	2020	14,925	4,674	4,482	2,255	..	444	343	1,047	3	1,678
	2021	17,257	4,980	4,811	2,842	..	606	930	1,464	9	1,616
Korea, Dem.Ppl's.Rep.	2018	515	191	178	109	..	..	..	..	37	..
	2019	515	191	178	109	..	..	..	..	37	..
	2020	515	191	178	109	..	..	..	..	37	..
	2021	515	191	178	109	..	..	..	..	37	..
Korea, Republic of	2018	158,099	48,366	19,601	10,200	36,933	21,571	4,365	2,922	2,729	11,412
	2019	157,811	49,425	19,722	8,526	36,758	21,544	4,729	2,882	2,781	11,444
	2020	147,105	47,180	16,770	11,204	33,734	14,199	4,370	2,476	5,745	11,427
	2021	147,548	45,283	19,526	11,300	33,600	12,255	4,061	2,532	6,925	12,066
Kuwait	2018	32,450	8,397	2,097	8,642	5,613	1,855	322	193	4,676	654
	2019	31,327	8,168	2,587	8,357	5,561	1,573	288	166	3,965	662
	2020	27,479	8,866	2,189	5,122	5,528	1,328	265	154	3,348	679
	2021	33,571	9,300	2,613	6,367	7,319	1,917	315	151	4,831	757

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
Kyrgyzstan	2018	544	79	219	156	..	..	..	55	..	35
	2019	318	83	103	115	..	..	..	15	..	2
	2020	162	58	13	84	..	..	..	7	..	0
	2021	269	97	21	151	..	..	..	..	..	..
Malaysia	2018	24,093	9,515	5,258	2,452	1,818	3,342	128	826	18	736
	2019	21,227	8,359	5,064	1,400	*1,506	3,363	135	783	8	*610
	2020	21,710	9,063	4,846	1,214	*2,818	2,383	144	493	12	*736
	2021	20,591	6,066	6,438	1,510	*1,995	2,312	142	1,613	10	*504
Myanmar	2018	247	115	70	37	..	11	..	..	0	13
	2019	207	103	52	23	..	12	..	6	0	11
	2020	237	94	53	35	..	8	..	7	0	40
	2021	185	74	49	34	..	12	..	6	..	10
Oman	2018	12,141	3,769	3,185	277	1,375	1,715	149	526	3	1,143
	2019	12,031	3,463	3,311	336	1,374	1,804	136	495	2	1,111
	2020	10,451	3,751	2,718	204	1,448	901	116	451	1	861
	2021	11,511	4,593	3,110	60	1,535	764	137	515	1	796
Other Asia	2018	51,947	15,976	9,485	4,637	9,663	4,541	2,550	1,257	5	3,833
	2019	51,450	16,497	9,046	4,100	9,541	4,568	2,590	1,166	2	3,940
	2020	43,288	12,614	7,129	4,941	8,533	3,584	2,345	857	5	3,281
	2021	46,493	13,198	8,933	4,743	9,198	3,260	2,421	1,093	5	3,641
Pakistan	2018	12,617	4,969	2,283	2,909	571	826	*33	459	113	*453
	2019	10,044	3,965	1,986	2,251	396	590	*32	410	87	*326
	2020	11,566	4,901	2,535	2,580	380	494	*37	199	95	345
	2021	11,401	4,713	2,496	2,408	335	629	*36	203	95	485
Philippines	2018	11,110	4,589	2,435	737	241	1,040	..	509	47	1,511
	2019	7,735	3,227	1,689	702	161	810	..	286	33	828
	2020	4,525	2,061	936	356	86	343	..	152	24	568
	2021	3,743	1,717	833	30	0	270	..	150	22	722
Qatar	2018	15,867	2,059	1,770	146	4,965	5,858	58	290	..	720
	2019	16,047	1,948	1,671	141	4,689	5,532	63	273	..	1,730
	2020	14,572	1,626	1,396	114	3,919	4,626	49	229	..	2,614
	2021	17,176	2,465	1,655	1,128	6,016	3,493	57	1,436	..	927
Saudi Arabia	2018	145,748	53,377	23,854	24,312	7,175	4,895	4,248	1,521	7,459	18,907
	2019	129,546	52,588	23,197	22,605	6,072	4,848	*2,204	1,307	6,077	10,648
	2020	112,331	49,260	19,990	18,501	5,340	1,984	*2,013	1,142	4,890	9,211
	2021	138,210	55,489	23,826	22,536	7,570	2,072	*3,327	1,248	3,858	*18,285
Singapore	2018	50,846	11,221	8,491	5,180	2,898	11,862	3,154	913	250	6,877
	2019	49,843	10,512	8,122	4,853	4,296	11,347	2,916	855	256	6,686
	2020	41,391	8,757	6,634	4,043	3,605	9,641	2,345	712	83	5,571
	2021	41,906	8,902	7,160	4,110	3,519	9,410	2,335	724	84	5,662
Sri Lanka	2018	1,629	568	165	424	141	237	22	22	35	15
	2019	1,825	624	186	483	162	259	27	27	38	19
	2020	1,669	538	164	469	164	157	27	25	109	15
	2021	1,219	371	124	359	107	131	10	17	98	3
Syrian Arab Republic	2018	6,779	2,138	563	2,796	559	205	91	71	3	352
	2019	6,087	1,920	505	2,511	502	184	81	64	3	316
	2020	6,346	2,002	527	2,618	524	192	85	67	3	330
	2021	6,136	1,936	509	2,531	506	186	82	65	3	319
Tajikistan	2018	46	17	1	26	..	..	..	..	..	3
	2019	30	13	0	15	..	..	..	..	..	3
	2020	16	6	0	8	..	..	..	..	..	3
	2021	22	8	0	10	..	..	..	..	..	3

Table 25

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
Thailand	2018	61,340	23,152	9,356	5,580	10,437	6,097	570	1,938	1,694	2,517
	2019	56,403	20,637	9,299	5,152	9,454	5,710	511	1,742	1,619	2,280
	2020	57,279	25,505	9,252	4,663	9,279	2,553	502	1,840	1,306	2,379
	2021	49,240	18,465	8,802	5,260	9,129	1,342	497	1,918	1,325	2,503
Türkiye	2018	28,227	9,421	4,691	2,189	375	4,787	1,004	913	23	4,824
	2019	37,005	13,817	5,298	3,114	1,138	5,964	1,084	1,082	10	5,498
	2020	35,315	17,085	4,168	459	1,504	2,926	1,134	971	6	7,062
	2021	37,795	17,391	4,612	1,602	1,895	3,306	1,158	1,014	2	6,815
Turkmenistan	2018	8,564	2,770	2,610	1,690	..	508	106	360	150	370
	2019	8,431	2,770	2,610	1,690	..	377	104	360	150	370
	2020	8,153	2,770	2,610	1,690	..	101	102	360	150	370
	2021	8,113	2,770	2,610	1,690	..	63	100	360	150	370
United Arab Emirates	2018	48,737	10,929	3,578	9,854	8,300	12,931	406	829	..	1,910
	2019	45,284	11,343	6,412	2,958	7,123	11,829	377	587	..	4,655
	2020	40,054	10,660	6,026	2,780	6,694	8,636	333	552	..	4,374
	2021	45,666	11,941	7,223	3,258	7,499	9,852	380	613	..	4,900
Uzbekistan	2018	3,847	1,081	1,147	143	..	193	114	819	9	342
	2019	3,611	1,030	1,016	211	..	157	*114	830	6	247
	2020	3,368	954	1,044	170	..	124	91	750	4	231
	2021	3,654	799	1,044	308	..	118	91	804	4	486
Viet Nam	2018	10,301	4,286	4,109	200	..	444	..	988	..	274
	2019	12,815	5,647	5,470	178	..	559	..	496	..	465
	2020	14,888	6,315	5,173	440	..	699	..	410	..	1,852
	2021	13,938	6,138	5,420	218	..	303	..	538	..	1,322
Yemen	2018	1,826	507	154	308	443	101	..	124	173	14
	2019	1,690	469	143	286	410	94	..	115	160	13
	2020	1,180	328	100	199	286	66	..	80	112	9
	2021	1,034	287	87	175	251	57	..	70	98	8
Europe	**2018**	**966,159**	**343,184**	**167,803**	**133,235**	**73,133**	**52,839**	**37,767**	**47,332**	**13,624**	**97,242**
	2019	**962,477**	**347,608**	**164,414**	**129,442**	**70,276**	**52,792**	**37,591**	**47,561**	**13,482**	**99,311**
	2020	**865,067**	**324,275**	**146,699**	**108,454**	**67,026**	**29,557**	**35,122**	**43,820**	**11,075**	**99,038**
	2021	**889,742**	**327,725**	**156,606**	**111,255**	**67,663**	**32,039**	**35,721**	**45,330**	**11,464**	**101,940**
Albania	2018	291	104	..	..	29	..	9	..	..	150
	2019	323	76	0	..	23	..	7	..	..	217
	2020	131	10	..	..	18	..	3	..	..	100
	2021	158	..	..	..	22	..	3	..	..	133
Austria	2018	9,165	3,860	1,928	710	1,028	761	281	111	26	462
	2019	9,530	3,972	1,971	735	1,006	894	316	137	15	485
	2020	8,438	3,617	1,714	737	1,051	363	284	117	13	542
	2021	8,328	3,471	1,766	645	1,087	344	296	150	9	560
Belarus	2018	18,752	6,443	3,335	5,409	..	370	697	465	7	2,026
	2019	17,607	7,003	2,900	4,382	..	463	713	292	14	1,840
	2020	16,083	6,112	3,009	3,515	..	225	644	296	10	2,272
	2021	16,083	6,112	3,009	3,515	..	225	644	296	10	2,272
Belgium	2018	34,070	13,525	4,013	7,507	2,611	1,842	824	829	30	2,889
	2019	35,151	14,695	4,253	4,585	2,769	2,195	685	1,069	25	4,876
	2020	27,511	12,807	3,111	2,582	2,481	830	499	1,036	26	4,140
	2021	30,722	14,582	3,244	2,472	2,552	712	610	1,061	35	5,455
Bosnia and Herzegovina	2018	704	300	116	57	7	..	..	19	..	205
	2019	74	9	18	25	1	..	..	1	..	20
	2020	13	..	..	..	..	..	..	..	..	13
	2021	13	..	..	..	..	..	..	..	..	13

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
Bulgaria	2018	6,189	2,545	1,508	948	372	259	294	97	..	166
	2019	6,968	3,191	1,778	581	487	232	374	131	..	195
	2020	5,061	2,491	1,224	259	372	138	324	77	..	177
	2021	4,437	2,127	1,002	209	338	177	290	64	..	232
Croatia	2018	3,929	1,556	895	669	39	192	187	216	..	175
	2019	2,908	1,239	712	397	14	158	129	156	..	102
	2020	2,560	1,190	626	267	36	58	114	151	..	117
	2021	2,428	1,122	585	291	9	80	99	153	..	90
Czechia	2018	7,848	3,276	1,398	137	930	181	140	356	..	1,430
	2019	8,089	3,409	1,483	139	911	216	148	400	..	1,383
	2020	6,341	2,713	1,184	93	707	48	112	312	..	1,172
	2021	7,399	3,169	1,456	82	888	65	135	394	..	1,210
Denmark	2018	9,095	4,496	2,189	1,870	..	113	301	126	..	..
	2019	8,635	4,251	2,225	1,592	..	121	320	127	..	..
	2020	8,176	4,075	2,133	1,469	..	79	308	113	..	..
	2021	8,177	4,028	2,133	1,505	..	92	326	92	..	..
Finland	2018	14,788	6,376	4,435	1,543	70	794	508	254	..	808
	2019	14,714	6,324	4,441	1,412	133	750	538	289	..	827
	2020	13,593	5,919	4,209	1,549	91	302	495	245	..	783
	2021	9,872	3,988	3,292	1,179	32	407	359	174	..	441
France	2018	55,639	23,087	10,408	5,853	5,387	4,186	1,167	1,421	..	4,130
	2019	50,842	20,799	9,298	6,176	4,267	3,889	1,178	1,357	..	3,878
	2020	36,911	15,469	7,565	4,066	3,324	1,481	905	886	..	3,216
	2021	36,175	15,158	7,299	4,124	3,508	1,105	754	1,029	..	3,198
Germany	2018	97,088	40,743	20,718	7,296	6,373	5,101	3,742	3,224	2	9,889
	2019	97,682	41,610	20,269	7,034	6,662	5,077	3,835	3,232	4	9,959
	2020	93,170	41,655	19,621	6,220	6,820	2,519	3,538	2,885	..	9,912
	2021	93,398	39,285	19,139	7,421	7,382	2,892	3,481	3,025	13	10,760
Greece	2018	32,771	10,975	5,351	6,551	1,795	3,136	839	847	..	3,277
	2019	30,133	10,252	5,007	5,172	1,618	2,813	776	802	..	3,694
	2020	28,766	11,523	4,613	3,467	2,259	1,638	660	780	..	3,824
	2021	30,538	11,352	5,131	4,977	2,094	1,902	738	860	..	3,486
Hungary	2018	7,658	3,174	1,117	43	1,036	297	207	110	..	1,674
	2019	7,398	3,114	1,089	21	880	300	206	110	..	1,678
	2020	7,292	3,081	1,107	23	983	123	203	109	..	1,663
	2021	7,222	3,002	1,041	61	1,018	141	180	108	..	1,671
Ireland	2018	3,057	1,097	601	976	35	..	76	58	215	..
	2019	2,742	1,044	518	725	42	..	62	45	307	..
	2020	2,892	1,043	537	824	89	..	69	52	277	..
	2021	3,057	1,086	544	971	89	..	70	42	255	..
Italy	2018	71,741	28,996	15,601	6,858	5,108	2,770	2,790	1,228	721	7,670
	2019	73,437	31,469	16,377	6,709	4,965	2,706	2,733	1,269	471	6,738
	2020	60,231	25,795	12,231	5,628	3,919	1,289	2,322	1,290	333	7,423
	2021	68,804	30,296	15,421	7,431	3,396	1,422	2,364	1,387	88	6,999
Lithuania	2018	9,782	3,389	2,555	1,681	..	955	332	342	..	529
	2019	9,605	3,240	2,465	1,539	..	996	302	399	..	665
	2020	7,905	2,588	2,136	1,105	..	878	247	333	..	618
	2021	8,086	2,595	2,385	1,145	..	770	278	341	..	572
Netherlands (Kingd. of the)	2018	60,920	18,441	3,937	11,077	11,572	8,929	1,946	1,481	211	3,327
	2019	61,855	20,552	3,997	8,909	11,446	8,810	2,291	1,562	305	3,983
	2020	55,352	20,431	3,862	9,024	10,801	4,521	1,921	1,307	260	3,224
	2021	58,943	22,966	4,345	7,742	10,553	4,381	2,188	1,549	539	4,679

Table 25

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
Norway	2018	17,698	7,470	4,421	1,474	1,281	778	478	1,304	7	485
	2019	15,865	6,545	3,616	1,806	1,329	655	426	1,085	40	363
	2020	14,579	5,823	3,522	1,494	1,417	371	406	1,165	13	368
	2021	13,826	5,010	4,147	669	1,395	465	424	1,231	0	484
Poland	2018	28,226	12,491	4,208	3,630	2,000	1,339	623	605	0	3,329
	2019	28,457	12,859	4,312	3,115	2,020	1,355	702	630	0	3,464
	2020	26,988	12,893	3,982	2,011	2,138	616	777	657	0	3,914
	2021	26,626	13,066	3,897	1,919	1,857	758	851	649	0	3,630
Portugal	2018	14,063	5,224	2,501	2,626	1,018	1,432	11	205	0	1,047
	2019	12,762	4,614	2,401	2,114	1,091	1,346	13	165	0	1,018
	2020	11,908	4,783	1,956	2,416	953	588	16	162	0	1,033
	2021	11,186	4,361	2,146	2,474	689	662	36	119	0	698
Republic of Moldova	2018	10	2	..	6	..	..	..	..	..	2
	2019	6	0	..	4	..	..	..	..	..	1
	2020	7	..	4	2	..	..	..	..	..	0
	2021	2	..	..	2	..	..	..	..	..	0
Romania	2018	12,584	5,656	3,381	196	193	418	788	624	1	1,326
	2019	13,327	6,139	3,485	193	181	512	842	625	1	1,351
	2020	11,728	5,711	3,022	153	150	204	726	514	0	1,247
	2021	11,118	5,182	2,939	182	166	231	696	491	..	1,231
Russian Federation	2018	285,776	77,464	39,053	50,147	27,236	12,982	*15,350	28,730	*315	34,499
	2019	297,661	81,560	39,494	58,417	25,783	13,176	*15,400	29,077	*428	34,325
	2020	280,926	79,113	37,915	50,823	25,010	10,934	*15,400	27,624	*400	33,708
	2021	290,268	80,557	40,285	51,575	26,043	12,886	*15,400	27,921	*400	35,200
Serbia	2018	3,858	1,572	516	361	449	190	59	83	..	628
	2019	3,495	1,458	445	257	398	155	62	94	..	626
	2020	3,607	1,594	451	203	456	88	63	100	..	653
	2021	3,915	1,795	505	100	540	120	70	117	..	669
Slovakia	2018	5,930	2,704	1,362	482	397	95	528	180	..	182
	2019	5,580	2,562	1,137	535	430	72	494	164	..	186
	2020	6,045	2,769	1,050	618	534	33	504	137	..	400
	2021	6,034	2,731	1,103	540	584	37	556	129	..	354
Spain	2018	67,599	27,167	9,211	6,000	1,756	381	2,236	1,311	10,038	9,499
	2019	65,221	27,005	9,087	5,056	1,438	454	2,113	1,167	9,816	9,085
	2020	55,673	24,240	7,822	2,443	1,309	155	1,907	920	7,839	9,038
	2021	58,057	24,186	9,668	2,645	1,444	316	1,953	1,240	8,379	8,227
Sweden	2018	21,649	8,504	5,003	5,150	188	204	822	499	..	1,279
	2019	18,078	5,698	3,653	4,413	293	259	489	446	..	2,827
	2020	19,720	5,975	3,558	3,860	248	122	570	401	..	4,986
	2021	21,411	6,418	4,561	3,936	358	16	929	626	..	4,566
Switzerland	2018	3,069	1,776	648	316	16	5	131	133	..	45
	2019	2,763	1,577	596	311	19	3	119	108	..	30
	2020	2,881	1,681	566	364	15	9	121	97	..	28
	2021	2,372	1,360	499	294	21	..	102	70	..	27
Ukraine	2018	4,008	*730	*818	429	..	..	35	397	..	1,599
	2019	*2,843	*813	*901	74	..	..	41	409	..	605
	2020	*2,703	*850	*815	75	..	..	50	305	..	608
	2021	*2,926	*850	*711	82	..	..	55	306	..	923
United Kingdom	2018	58,205	20,043	16,575	3,233	2,209	5,129	2,368	2,079	2,053	4,516
	2019	58,726	20,528	16,488	3,016	2,072	5,185	2,277	2,214	2,057	4,890
	2020	47,876	18,323	13,155	3,167	1,844	1,943	1,933	1,749	1,903	3,860
	2021	48,162	17,868	14,353	3,068	1,599	1,834	1,836	1,708	1,734	4,160

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
Latin America & Carib.	**2018**	**241,926**	**77,009**	**54,024**	**48,611**	**8,540**	**13,246**	**9,261**	**6,761**	**295**	**24,179**
	2019	**224,514**	**73,740**	**51,188**	**39,835**	**8,656**	**12,134**	**9,077**	**6,380**	**254**	**23,251**
	2020	**202,909**	**69,756**	**40,888**	**40,581**	**9,938**	**6,346**	**8,252**	**6,004**	**224**	**20,921**
	2021	**216,793**	**71,124**	**47,783**	**44,684**	**8,375**	**8,301**	**9,589**	**6,351**	**247**	**20,339**
Argentina	2018	24,053	9,397	6,575	1,878	400	1,461	1,072	921	9	2,340
	2019	24,127	9,484	6,481	2,138	640	1,466	925	773	8	2,212
	2020	21,892	9,159	4,986	2,683	1,157	520	876	629	9	*1,872
	2021	22,772	9,557	5,630	2,059	1,097	592	1,060	721	7	2,050
Bolivia (Plur. State of)	2018	2,326	724	997	..	0	179	98	134	18	175
	2019	2,020	582	916	..	0	177	89	111	20	123
	2020	1,964	623	963	..	0	85	95	108	14	76
	2021	1,980	543	1,038	..	0	111	92	106	17	73
Brazil	2018	91,463	36,396	17,550	10,761	2,944	5,200	4,264	4,016	5	10,327
	2019	91,193	35,557	17,684	11,626	3,250	4,916	4,022	3,926	5	10,207
	2020	94,945	36,687	16,068	16,643	4,486	2,703	4,058	3,971	4	10,325
	2021	95,718	35,980	18,808	16,352	3,347	3,260	4,430	3,984	4	9,553
Chile	2018	9,727	3,052	2,964	1,149	64	635	215	434	162	1,051
	2019	10,245	3,077	3,319	993	137	880	242	543	161	894
	2020	8,507	2,529	2,626	997	60	491	175	461	153	1,015
	2021	9,416	3,053	2,802	1,087	233	365	192	489	177	1,021
Colombia	2018	19,408	7,190	4,458	3,260	1,164	1,227	..	278	..	1,831
	2019	19,254	6,458	4,384	3,036	942	1,144	253	274	5	2,759
	2020	15,588	6,295	3,085	1,656	1,509	876	254	307	1	1,605
	2021	19,754	7,365	4,190	2,716	1,509	1,174	541	406	7	1,847
Cuba	2018	2,751	703	212	1,313	301	66	4	30	7	116
	2019	1,701	447	199	766	105	83	5	22	1	73
	2020	2,052	541	291	903	148	37	14	39	4	74
	2021	1,461	382	107	664	172	37	8	28	4	59
Curaçao	2018	3,060	641	843	1,037	48	215	52	18	..	208
	2019	0	0	0	0	0	0	0	0	..	0
	2020	..	..	..	..	..	..	..	..	..	..
	2021	..	..	..	..	..	..	..	..	..	..
Dominican Republic	2018	1,208	356	256	372	..	189	14	14	8	..
	2019	1,156	328	251	329	..	193	11	27	16	..
	2020	475	129	95	136	..	86	4	17	7	..
	2021	977	292	108	366	..	158	11	35	7	..
Ecuador	2018	8,136	1,820	1,335	3,572	..	365	51	145	..	848
	2019	7,158	1,741	1,230	2,866	..	360	50	88	..	824
	2020	5,949	1,310	943	2,607	..	192	40	100	..	757
	2021	7,400	1,679	1,089	3,380	..	277	44	102	..	829
Guatemala	2018	147	50	..	..	..	..	..	..	..	97
	2019	146	..	..	..	..	..	..	..	..	146
	2020	110	..	..	..	..	..	..	..	..	110
	2021	132	..	..	..	..	..	..	..	..	132
Jamaica	2018	1,032	102	119	729	0	61	..	11	..	*10
	2019	1,291	128	181	887	..	65	..	11	..	*20
	2020	1,167	183	138	785	..	41	..	9	..	11
	2021	1,011	162	120	680	..	33	..	4	..	11
Mexico	2018	33,417	5,966	8,654	10,550	2,046	1,589	1,816	317	..	2,479
	2019	32,418	6,972	8,213	8,472	2,201	1,234	2,319	222	..	2,785
	2020	32,360	6,427	7,993	10,019	1,747	796	2,162	172	..	3,044
	2021	38,144	5,960	9,488	13,874	1,554	1,297	2,709	267	..	2,995

Table 25

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
Nicaragua	2018	639	210	96	240	..	18	15	17	8	34
	2019	518	233	108	96	..	17	24	21	6	14
	2020	516	267	111	77	..	7	24	16	5	9
	2021	670	368	134	95	..	11	30	19	4	10
Peru	2018	8,012	2,716	1,276	2,780	..	625	139	201	..	276
	2019	7,581	2,560	1,409	2,316	..	686	149	214	..	248
	2020	4,660	2,415	1,107	570	..	206	50	46	..	266
	2021	5,449	2,087	1,743	574	..	619	56	47	..	323
Suriname	2018	671	301	66	300	..	..	..	..	..	4
	2019	637	311	61	255	..	..	..	..	..	10
	2020	618	292	59	262	..	..	..	..	..	5
	2021	686	333	71	278	..	..	..	..	..	*4
Trinidad and Tobago	2018	5,032	1,178	1,435	1,810	..	397	88	39	24	61
	2019	..	..	..	..	..	..	..	..	..	..
	2020	..	..	..	..	..	..	..	..	..	..
	2021	..	..	..	..	..	..	..	..	..	..
Uruguay	2018	2,073	883	533	242	..	105	58	106	5	141
	2019	1,991	850	549	225	..	100	54	102	4	108
	2020	1,845	845	511	214	..	42	61	96	6	70
	2021	2,041	960	556	237	..	45	57	111	4	72
Venezuela (Bolivar. Rep.)	2018	28,771	5,325	6,656	8,618	1,573	916	1,374	80	49	4,181
	2019	23,076	5,011	6,203	5,831	1,381	814	934	45	28	2,828
	2020	10,262	2,055	1,912	3,028	830	264	439	33	20	1,681
	2021	9,182	2,404	1,902	2,322	464	322	359	31	16	1,362
Northern America	**2018**	**945,712**	**275,001**	**395,695**	**28,808**	**11,235**	**89,096**	**18,536**	**11,318**	**1,162**	**114,861**
	2019	**938,811**	**275,036**	**387,503**	**24,709**	**9,405**	**88,736**	**18,238**	**11,238**	**718**	**123,228**
	2020	**809,904**	**255,407**	**339,689**	**15,039**	**8,221**	**50,012**	**16,574**	**9,851**	**789**	**114,322**
	2021	**847,312**	**248,478**	**362,621**	**16,250**	**8,233**	**63,934**	**17,189**	**11,311**	**637**	**118,661**
Canada	2018	89,859	29,953	30,891	5,196	1,939	5,540	2,948	1,362	728	11,302
	2019	106,285	32,358	31,089	4,994	1,166	5,560	3,411	1,559	245	25,902
	2020	95,557	31,695	28,715	3,642	963	2,642	2,991	1,406	218	23,285
	2021	98,359	31,559	29,363	3,784	900	3,116	2,915	1,478	194	25,050
United States	2018	855,853	245,048	364,804	23,612	9,296	83,556	15,588	9,956	434	103,559
	2019	832,525	242,678	356,414	19,715	8,239	83,176	14,827	9,679	473	97,326
	2020	714,347	223,712	310,974	11,398	7,258	47,370	13,583	8,446	571	91,037
	2021	748,953	216,919	333,258	12,466	7,333	60,818	14,274	9,833	442	93,611
Oceania	**2018**	**28,567**	**9,972**	**9,771**	**1,353**	**743**	**4,422**	**1,058**	**546**	**56**	**646**
	2019	**30,818**	**10,044**	**9,660**	**1,410**	**433**	**4,545**	**1,065**	**555**	**52**	**3,054**
	2020	**27,207**	**9,364**	**8,392**	**920**	**606**	**2,979**	**897**	**542**	**53**	**3,454**
	2021	**23,160**	**8,633**	**7,657**	**694**	**607**	**1,253**	**749**	**528**	**53**	**2,988**
Australia	2018	22,070	7,706	8,401	765	310	3,041	808	529	6	503
	2019	23,680	7,595	8,171	909	..	3,162	807	534	..	2,503
	2020	21,217	7,020	7,164	740	..	2,326	713	525	..	2,729
	2021	17,476	6,156	6,407	438	..	668	627	511	..	2,669
New Zealand	2018	5,330	1,790	1,370	465	..	1,325	250	..	..	130
	2019	6,053	2,028	1,489	422	..	1,330	258	..	..	527
	2020	4,637	1,803	1,229	80	..	638	184	..	..	704
	2021	4,269	1,913	1,250	155	..	531	122	..	..	300
Papua New Guinea	2018	1,167	475	..	122	433	56	..	17	51	14
	2019	1,085	422	..	80	433	53	..	21	52	25
	2020	1,352	541	..	101	606	15	..	17	53	20
	2021	*1,415	*564	..	*101	*607	*54	..	*17	*53	*20

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 68: Production of oil products by region, 1990-2021

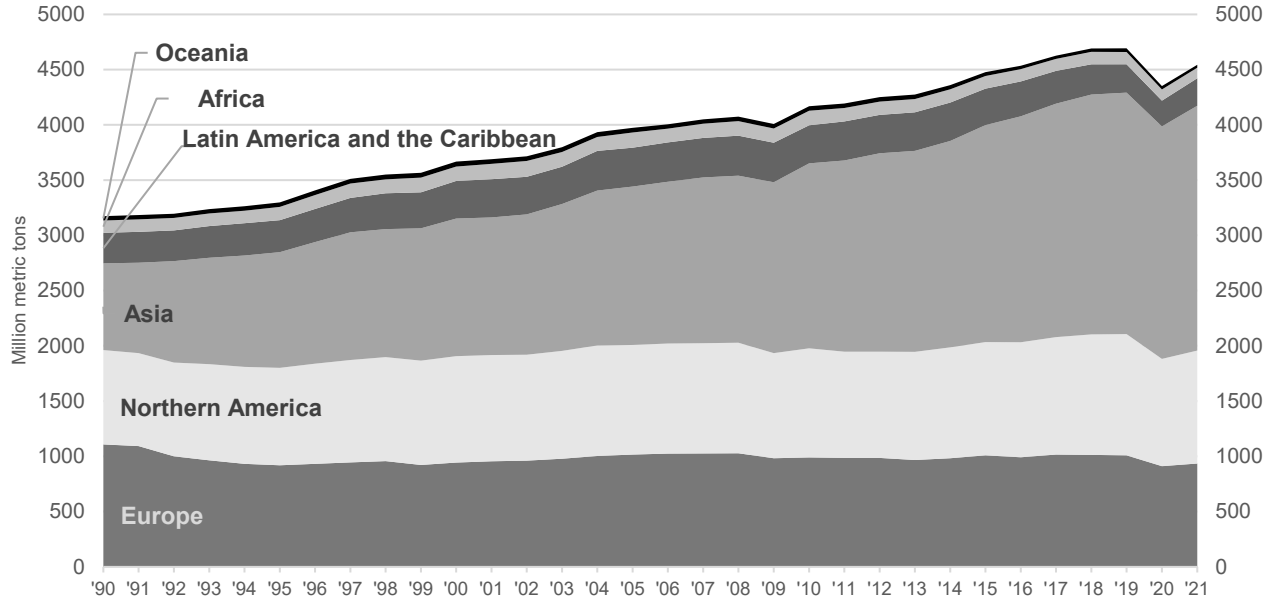


Table 26

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	**2018**	**4,691,201**	**1,431,656**	**1,494,976**	**405,228**	**6,612**	**4,216,041**	**549**
	2019	**4,693,116**	**1,415,046**	**1,438,282**	**404,672**	**6,124**	**4,259,083**	**549**
	2020	**4,351,005**	**1,274,310**	**1,305,630**	**292,820**	**32,561**	**3,994,305**	**509**
	2021	**4,543,877**	**1,363,798**	**1,379,982**	**306,934**	**-200**	**4,220,958**	**534**
Africa	**2018**	**112,338**	**112,552**	**38,620**	**13,984**	**-2,321**	**174,607**	**135**
	2019	**110,582**	**123,452**	**35,439**	**14,096**	**-524**	**185,024**	**139**
	2020	**100,230**	**111,524**	**39,277**	**10,204**	**-314**	**162,588**	**120**
	2021	**95,790**	**125,311**	**34,354**	**10,449**	**-847**	**177,145**	**127**
Algeria	2018	38,328	840	21,052	*648	566	16,902	403
	2019	36,622	1,940	20,079	*381	12	18,090	424
	2020	35,652	1,070	20,218	447	-35	16,093	370
	2021	36,365	5	19,492	450	16	16,412	372
Angola	2018	3,972	4,434	2,825	546	*-138	5,174	165
	2019	4,921	3,891	2,673	565	785	4,790	148
	2020	4,332	1,903	3,110	258	-3	2,870	86
	2021	3,868	2,879	2,508	262	81	3,896	113
Benin	2018	..	1,726	..	30	-11	1,708	143
	2019	..	1,489	..	22	-10	1,478	120
	2020	..	1,496	..	16	-3	1,483	117
	2021	..	1,653	..	18	13	1,622	125
Botswana	2018	..	1,019	..	14	..	1,004	410
	2019	..	972	..	16	..	957	383
	2020	..	880	..	4	..	876	344
	2021	..	913	..	6	..	908	351
Burkina Faso	2018	..	1,463	..	30	0	1,433	70
	2019	..	1,510	..	30	-6	1,485	71
	2020	..	*1,500	..	18	*4	*1,477	*69
	2021	..	*1,743	..	29	*47	*1,667	*75
Burundi	2018	..	*216	..	5	0	*211	*18
	2019	..	*219	..	5	0	*214	*18
	2020	..	252	..	2	..	250	20
	2021	..	*246	..	3	..	*244	*19
Cabo Verde	2018	..	*314	..	*124	0	*189	*332
	2019	..	*329	..	*118	..	*211	*365
	2020	..	*252	..	*79	..	*173	*297
	2021	..	*261	..	*79	..	*182	*309
Cameroon	2018	1,206	1,009	333	16	..	1,867	74
	2019	640	1,366	188	16	..	1,802	70
	2020	25	1,689	..	7	..	1,707	64
	2021	35	1,684	..	9	..	1,709	63
Central African Rep.	2018	..	*90	..	17	..	*73	*14
	2019	..	*92	..	*17	..	*75	*14
	2020	..	*97	..	*18	..	*79	*15
	2021	..	*99	..	*19	..	*80	*15
Chad	2018	*656	*8	*77	28	..	*559	*36
	2019	*680	*3	*79	27	..	*577	*36
	2020	*705	*2	*75	*27	..	*604	*36
	2021	*773	*2	*77	*27	..	*671	*39
Comoros	2018	..	*96	..	*6	*-3	*93	*120
	2019	..	*106	..	*7	*-3	*102	*129
	2020	..	*126	..	*6	*-1	*121	*150
	2021	..	*175	..	*7	*6	*162	*198

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	2018	725	200	348	32	..	545	100
	2019	735	202	352	32	..	553	99
	2020	713	171	255	28	..	601	105
	2021	738	182	258	29	..	633	108
Côte d'Ivoire	2018	3,371	1,244	1,491	231	..	2,893	113
	2019	3,717	1,072	1,741	258	..	2,791	107
	2020	3,335	1,177	1,573	147	..	2,792	104
	2021	4,154	1,356	1,660	196	..	3,653	133
Dem. Rep. of the Congo	2018	..	1,087	..	123	..	964	11
	2019	..	1,169	..	133	..	1,035	12
	2020	..	1,193	..	99	..	1,095	12
	2021	..	1,170	..	121	..	1,050	11
Djibouti	2018	..	229	..	*97	..	133	125
	2019	..	251	..	*100	..	151	141
	2020	..	220	..	*93	..	127	116
	2021	..	*229	..	*96	..	*133	*120
Egypt	2018	27,382	12,572	3,277	713	0	35,964	347
	2019	29,503	10,362	2,775	857	..	36,233	343
	2020	30,888	5,857	8,292	838	..	27,615	257
	2021	28,525	9,646	4,911	818	..	32,442	297
Equatorial Guinea	2018	606	*283	*584	45	..	*259	*173
	2019	528	*299	*506	46	..	*275	*177
	2020	478	*245	*456	31	..	*236	*148
	2021	376	*244	*353	29	..	*238	*146
Eritrea	2018	..	221	..	35	3	183	53
	2019	..	225	..	31	..	194	55
	2020	..	217	..	20	..	196	55
	2021	..	225	..	18	..	207	57
Eswatini	2018	..	286	..	2	..	284	245
	2019	..	*303	..	2	..	*301	*257
	2020	..	*303	..	*2	..	*301	*255
	2021	..	*266	..	*2	..	*265	*222
Ethiopia	2018	..	4,425	..	731	18	3,676	33
	2019	..	4,928	..	820	-6	4,114	36
	2020	..	4,143	..	379	12	3,752	32
	2021	..	4,357	..	493	..	3,865	32
Gabon	2018	671	317	211	174	16	587	268
	2019	619	324	208	204	1	531	237
	2020	818	265	474	182	-140	567	247
	2021	932	254	541	170	-157	632	270
Gambia	2018	..	233	*2	*19	..	211	86
	2019	..	*254	*2	*20	..	*232	*92
	2020	..	*247	*2	*18	..	*228	*89
	2021	..	*257	*2	*19	..	*236	*90
Ghana	2018	390	3,680	159	185	0	3,726	121
	2019	690	3,545	292	219	-12	3,735	118
	2020	580	3,973	186	126	214	4,028	125
	2021	378	4,196	97	198	-200	4,478	136
Guinea	2018	..	1,291	..	*30	170	1,091	87
	2019	..	1,549	..	*42	167	1,341	104
	2020	..	1,508	..	*26	-47	1,529	116
	2021	..	*1,484	..	*33	*43	*1,409	*104

Table 26

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	2018	..	*128	..	*13	..	*116	*60
	2019	..	*131	..	*13	..	*118	*60
	2020	..	*122	..	*13	..	*109	*54
	2021	..	*123	..	*13	..	*111	*54
Kenya	2018	..	5,378	26	723	..	4,629	93
	2019	..	5,762	23	718	..	5,021	99
	2020	..	5,767	29	398	..	5,339	103
	2021	..	5,591	*1	532	..	5,058	95
Lesotho	2018	*3	227	..	0	..	230	105
	2019	*3	237	..	0	0	241	108
	2020	*3	210	..	0	..	213	94
	2021	*3	231	..	0	0	234	103
Liberia	2018	..	113	..	*10	*-60	163	33
	2019	..	305	..	*10	29	266	53
	2020	..	213	..	*9	-3	207	41
	2021	..	82	..	*10	-122	195	37
Libya	2018	6,040	5,499	1,956	327	..	9,255	1,429
	2019	4,426	6,378	1,383	340	..	9,082	1,382
	2020	3,209	5,896	993	114	..	7,998	1,202
	2021	4,172	5,736	1,368	345	..	8,195	1,217
Madagascar	2018	..	833	0	47	-72	857	32
	2019	..	1,063	0	50	24	988	36
	2020	..	889	0	*27	*-9	871	31
	2021	..	1,009	..	*33	*-38	1,015	35
Malawi	2018	..	423	..	*8	*-44	459	25
	2019	..	433	..	*4	-28	458	24
	2020	..	507	..	*1	71	435	22
	2021	..	447	..	*3	-50	495	25
Mali	2018	..	1,636	..	68	..	1,568	79
	2019	..	1,770	..	62	0	1,707	83
	2020	..	1,948	..	61	0	1,887	89
	2021	..	*2,078	..	*62	0	*2,016	*92
Mauritania	2018	..	1,652	..	22	*128	1,501	352
	2019	..	1,758	..	20	*171	1,567	357
	2020	..	1,739	..	12	*126	1,602	356
	2021	..	*1,632	..	17	*112	*1,503	*326
Mauritius	2018	..	1,663	..	738	4	922	711
	2019	..	1,868	62	808	6	992	765
	2020	..	1,261	..	697	-178	742	572
	2021	..	1,408	..	649	18	741	571
Morocco	2018	..	13,012	..	871	14	12,126	333
	2019	..	12,906	..	912	-456	12,450	338
	2020	..	11,699	..	416	-64	11,347	305
	2021	..	12,781	..	513	-353	12,620	335
Mozambique	2018	..	1,678	..	33	..	1,645	56
	2019	..	1,652	..	35	..	1,617	53
	2020	..	1,389	..	19	..	1,370	44
	2021	..	1,867	..	23	..	1,844	58
Namibia	2018	..	1,274	4	56	..	1,213	504
	2019	..	1,254	4	55	..	1,194	488
	2020	..	1,101	4	*26	..	1,072	431
	2021	..	1,123	4	31	..	1,088	430

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	2018	763	51	337	*45	*36	397	18
	2019	634	53	101	*46	..	540	23
	2020	767	134	327	42	-6	537	22
	2021	722	73	199	*51	..	546	22
Nigeria	2018	2,389	12,651	246	982	-2,997	16,809	85
	2019	528	21,526	36	995	-1,306	22,329	110
	2020	136	21,180	0	561	-364	21,120	101
	2021	529	21,919	..	670	-388	22,166	104
Rwanda	2018	..	376	..	*30	*-3	349	28
	2019	..	557	..	*24	*160	372	29
	2020	..	388	..	*16	..	372	28
	2021	..	467	..	*24	..	443	33
Sao Tome and Principe	2018	..	50	..	*5	..	45	213
	2019	..	51	..	*3	..	48	222
	2020	..	*49	..	*4	..	*45	*207
	2021	..	*51	..	*4	..	*47	*210
Senegal	2018	981	2,101	*433	332	*120	2,197	141
	2019	886	2,605	*670	385	-25	2,460	154
	2020	757	1,767	41	371	-14	2,126	129
	2021	868	1,945	73	335	12	2,394	142
Seychelles	2018	..	366	..	*169	0	196	1,904
	2019	..	348	..	*154	0	193	1,854
	2020	..	*315	..	*117	*2	*196	*1,858
	2021	..	*353	..	*107	*46	*200	*1,878
Sierra Leone	2018	..	348	..	5	*3	340	43
	2019	..	396	..	4	*61	331	41
	2020	..	437	..	2	*96	339	41
	2021	..	490	..	3	*73	414	49
Somalia	2018	..	*279	..	71	..	*208	*13
	2019	..	*279	..	71	..	*208	*13
	2020	..	*251	..	*56	..	*195	*12
	2021	..	*269	..	*67	..	*202	*12
South Africa	2018	19,125	10,511	4,516	4,611	..	20,508	358
	2019	21,120	9,480	4,108	4,516	..	21,977	378
	2020	12,803	11,431	2,680	3,929	..	17,625	300
	2021	8,976	16,029	2,062	3,151	..	19,792	333
South Sudan	2018	..	571	..	74	..	497	48
	2019	..	580	..	83	..	497	48
	2020	..	529	..	54	..	474	45
	2021	110	461	..	73	..	497	46
St. Helena and Depend.	2018	..	4	..	..	..	4	727
	2019	..	4	..	..	..	4	820
	2020	..	3	..	..	..	3	640
	2021	..	*4	..	..	..	*4	*692
Sudan	2018	3,943	2,949	206	153	..	6,532	156
	2019	*3,427	3,519	79	92	..	6,776	157
	2020	3,483	2,288	18	53	..	5,700	128
	2021	*2,526	3,079	..	*146	..	5,459	120
Togo	2018	..	480	..	66	-17	431	54
	2019	..	464	..	58	-11	416	50
	2020	..	515	..	56	-9	468	55
	2021	..	565	..	74	..	491	57

Table 26

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	2018	1,192	4,247	531	294	-54	4,667	391
	2019	243	4,521	76	310	-78	4,456	370
	2020	1,200	3,636	543	108	30	4,155	342
	2021	1,686	3,691	750	138	-6	4,495	367
Uganda	2018	..	1,806	..	108	..	1,698	41
	2019	..	1,849	..	106	..	1,742	41
	2020	..	1,718	..	56	5	1,657	37
	2021	..	1,914	..	84	..	1,830	40
United Rep. of Tanzania	2018	..	2,889	..	161	..	2,727	47
	2019	..	3,133	..	172	..	2,962	49
	2020	..	3,135	..	81	..	3,054	49
	2021	..	3,507	..	104	..	3,403	54
Zambia	2018	595	637	5	29	..	1,198	67
	2019	658	853	2	29	..	1,480	81
	2020	344	1,178	..	17	..	1,505	80
	2021	54	1,599	..	23	..	1,630	84
Zimbabwe	2018	..	1,440	..	51	..	1,389	92
	2019	..	1,319	..	51	..	1,269	83
	2020	..	1,045	..	18	..	1,027	66
	2021	..	1,260	..	37	..	1,222	76
Asia	**2018**	**2,170,513**	**593,044**	**625,907**	**190,119**	**11,709**	**1,935,822**	**422**
	2019	**2,185,141**	**561,195**	**577,367**	**194,296**	**4,004**	**1,970,669**	**426**
	2020	**2,103,402**	**527,965**	**524,624**	**149,538**	**27,282**	**1,929,922**	**414**
	2021	**2,215,636**	**549,146**	**569,957**	**152,594**	**24,382**	**2,017,849**	**430**
Afghanistan	2018	*176	2,112	..	*54	*-41	2,275	62
	2019	*112	2,426	..	*10	*175	2,353	62
	2020	*46	2,425	..	*12	*-24	2,483	64
	2021	*50	*2,206	..	*13	*-28	*2,271	*57
Armenia	2018	..	386	0	62	14	310	109
	2019	..	487	1	69	31	386	137
	2020	..	607	2	37	30	538	192
	2021	..	645	0	*52	21	572	205
Azerbaijan	2018	5,995	320	1,294	152	171	4,700	463
	2019	6,077	280	1,141	344	38	4,834	472
	2020	5,832	259	1,297	368	59	4,368	425
	2021	6,607	286	1,748	447	-210	4,908	476
Bahrain	2018	13,227	*612	11,540	483	-184	2,000	1,345
	2019	13,386	*626	11,883	508	-346	1,967	1,316
	2020	11,200	*610	10,337	287	-582	1,768	1,196
	2021	11,517	*620	10,578	322	-651	1,888	1,290
Bangladesh	2018	1,403	7,036	19	520	..	7,900	48
	2019	1,593	7,234	37	552	..	8,239	50
	2020	1,238	6,814	0	468	..	7,584	45
	2021	1,604	9,301	19	377	..	10,510	62
Bhutan	2018	..	217	..	*4	..	213	280
	2019	..	210	..	*4	..	206	269
	2020	..	152	..	*1	..	151	195
	2021	..	147	..	*1	..	146	188
Brunei Darussalam	2018	337	354	0	81	-6	616	1,419
	2019	1,348	690	835	108	223	871	1,989
	2020	8,155	1,403	7,753	43	261	1,501	3,397
	2021	7,906	1,036	7,538	18	123	1,263	2,837

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
Cambodia	2018	..	2,517	..	140	..	2,378	148
	2019	..	3,146	..	156	..	2,991	185
	2020	..	3,099	..	42	..	3,057	186
	2021	..	3,108	..	20	..	3,088	186
China	2018	711,791	67,525	63,519	20,960	7,336	687,501	485
	2019	763,910	64,029	71,704	21,090	5,108	730,036	513
	2020	808,477	62,969	65,752	15,870	20,997	768,826	540
	2021	842,814	67,570	64,528	16,737	34,338	794,781	557
China, Hong Kong SAR	2018	..	21,605	224	17,869	-281	3,792	507
	2019	..	20,363	290	15,982	274	3,816	509
	2020	..	15,014	155	10,617	625	3,618	482
	2021	..	13,156	63	9,525	293	3,275	437
China, Macao SAR	2018	..	408	..	64	-8	352	541
	2019	..	348	..	44	-12	316	476
	2020	..	308	..	4	7	297	439
	2021	..	285	..	3	-4	286	416
Cyprus	2018	3	2,600	..	580	-22	2,046	1,678
	2019	4	2,600	..	575	0	2,028	1,651
	2020	15	2,265	..	368	35	1,877	1,517
	2021	13	2,275	33	404	-28	1,880	1,511
Georgia	2018	22	1,451	105	104	25	1,240	329
	2019	37	1,424	24	103	-22	1,356	360
	2020	37	1,350	17	59	24	1,287	342
	2021	50	1,427	26	97	-6	1,360	362
India	2018	277,047	41,702	71,763	*5,814	*98	241,074	176
	2019	266,575	43,789	68,920	*5,704	71	235,669	170
	2020	234,490	43,247	59,211	*2,755	*624	215,147	154
	2021	258,895	42,062	66,172	3,389	-63	231,459	164
Indonesia	2018	40,030	30,990	1,168	1,232	156	68,463	256
	2019	42,553	28,279	1,155	1,135	152	68,391	254
	2020	41,776	20,990	906	792	-1	61,068	225
	2021	41,710	22,546	1,319	476	..	62,462	228
Iran (Islamic Rep. of)	2018	100,034	4,958	24,855	2,225	..	77,912	910
	2019	99,388	6,407	25,989	1,887	384	77,535	896
	2020	96,929	3,736	25,862	1,774	141	72,888	835
	2021	101,184	3,692	27,546	1,892	..	75,438	858
Iraq	2018	29,807	4,195	2,135	517	..	31,351	772
	2019	31,311	4,468	5,260	513	..	30,005	722
	2020	27,360	3,675	7,992	396	..	22,647	532
	2021	26,984	4,911	9,373	554	..	21,968	505
Israel	2018	14,782	4,550	5,952	1,397	13	11,970	1,415
	2019	15,268	4,007	6,127	1,464	-59	11,743	1,364
	2020	12,832	2,507	5,090	806	157	9,286	1,060
	2021	13,411	2,680	5,593	934	-186	9,751	1,096
Japan	2018	156,276	42,463	17,177	11,236	-16	170,342	1,349
	2019	152,283	40,874	18,540	11,283	667	162,667	1,293
	2020	126,060	42,496	9,331	7,510	-1,077	152,793	1,220
	2021	134,149	43,070	12,690	8,548	-1,052	157,034	1,260
Jordan	2018	2,264	2,678	..	62	-33	4,913	470
	2019	2,174	2,859	..	*123	95	4,816	450
	2020	1,780	2,217	..	85	..	3,912	358
	2021	1,911	2,352	..	106	..	4,157	373

Table 26

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
Kazakhstan	2018	16,110	1,536	5,511	603	43	11,490	620
	2019	17,462	622	5,092	464	57	12,471	665
	2020	16,496	1,065	4,562	206	1,212	11,581	610
	2021	18,453	720	4,561	484	-994	15,123	788
Korea, Dem.Ppl's.Rep.	2018	515	415	..	..	..	930	36
	2019	515	502	..	..	..	1,017	40
	2020	515	463	..	..	..	978	38
	2021	515	275	..	..	..	790	30
Korea, Republic of	2018	169,765	40,413	68,700	14,375	798	126,305	2,444
	2019	169,264	40,002	67,173	13,476	-599	129,217	2,494
	2020	157,931	39,300	59,990	12,623	-283	124,900	2,409
	2021	162,499	45,884	57,012	12,852	-79	138,598	2,674
Kuwait	2018	41,454	217	25,077	1,953	-3,078	17,720	4,104
	2019	39,353	193	23,250	1,941	-1,676	16,030	3,609
	2020	35,882	278	21,033	1,379	-37	13,785	3,161
	2021	40,641	1,759	24,639	1,402	51	16,308	3,837
Kyrgyzstan	2018	544	1,653	134	4	23	2,036	327
	2019	318	1,243	136	*5	-44	1,464	232
	2020	162	1,308	108	*2	155	1,205	188
	2021	269	1,380	179	*4	59	1,407	216
Lao People's Dem. Rep.	2018	..	1,140	..	58	..	1,082	152
	2019	..	*1,128	..	*36	..	*1,092	*151
	2020	..	*1,105	..	*36	..	*1,070	*146
	2021	..	*1,108	..	*36	..	*1,072	*144
Lebanon	2018	..	8,055	..	*294	..	7,761	1,304
	2019	..	8,050	..	*300	..	7,749	1,340
	2020	..	*7,686	..	*288	*75	*7,323	*1,293
	2021	..	*6,094	..	*235	..	*5,860	*1,048
Malaysia	2018	27,008	19,084	15,714	2,838	424	27,116	837
	2019	24,083	16,708	9,664	2,825	-1,374	29,676	905
	2020	24,579	11,974	11,607	1,447	-648	24,148	727
	2021	22,462	17,756	18,713	1,386	-2,731	22,850	681
Maldives	2018	..	645	..	*78	..	567	1,157
	2019	..	724	..	*73	..	651	1,290
	2020	..	611	..	*63	..	548	1,065
	2021	..	719	..	*77	..	643	1,232
Mongolia	2018	..	1,328	..	37	..	1,291	408
	2019	..	1,672	..	43	..	1,628	504
	2020	..	1,635	..	18	..	1,617	491
	2021	..	1,591	..	26	..	1,565	468
Myanmar	2018	264	6,407	..	71	-114	6,714	127
	2019	218	6,612	..	73	..	6,757	127
	2020	242	5,859	..	16	..	6,085	114
	2021	190	4,590	..	10	-110	4,880	91
Nepal	2018	..	2,496	..	109	13	2,374	83
	2019	..	2,280	..	80	358	1,842	64
	2020	..	2,540	..	39	2	2,499	85
	2021	..	2,727	..	86	..	2,642	88
Oman	2018	12,381	287	4,536	461	0	7,671	1,667
	2019	12,313	294	4,458	702	0	7,447	1,618
	2020	10,667	301	3,989	*355	..	6,624	1,458
	2021	11,726	408	4,404	196	..	7,534	1,667

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
Other Asia	2018	52,018	18,087	19,688	4,523	251	45,641	1,924
	2019	51,519	15,862	20,758	4,770	-400	42,252	1,777
	2020	43,364	15,966	13,608	3,390	113	42,219	1,772
	2021	46,584	16,057	14,941	3,662	195	43,842	1,837
Pakistan	2018	12,887	10,639	290	*250	-5	22,992	105
	2019	10,299	11,370	150	*280	..	21,239	95
	2020	11,843	14,672	135	174	..	26,206	115
	2021	11,685	18,851	231	243	..	30,062	130
Philippines	2018	11,110	12,085	1,757	1,733	390	19,315	178
	2019	7,735	13,650	1,045	1,696	45	18,599	168
	2020	4,525	12,653	1,113	680	-499	15,884	142
	2021	3,743	14,545	625	616	-50	17,097	150
Qatar	2018	27,397	222	21,595	4,332	291	1,401	506
	2019	25,085	232	17,509	4,603	0	3,205	1,142
	2020	24,246	215	16,837	3,075	757	3,793	1,374
	2021	25,502	674	20,370	1,769	749	3,289	1,224
Saudi Arabia	2018	195,920	42,218	105,124	*6,939	*451	125,624	3,587
	2019	178,864	*17,682	*62,484	*6,730	*-900	128,232	3,579
	2020	159,007	*18,296	56,644	*3,831	712	116,115	3,226
	2021	183,466	*19,368	71,603	*4,034	*61	127,137	3,536
Singapore	2018	50,846	109,601	83,971	57,983	-102	18,595	3,198
	2019	49,843	111,702	83,185	55,893	-392	22,860	3,897
	2020	41,391	107,800	75,389	51,786	*817	21,198	3,587
	2021	41,906	102,603	73,645	51,981	*-1,331	20,214	3,402
Sri Lanka	2018	1,629	3,793	91	1,152	-98	4,277	198
	2019	1,825	3,822	37	1,103	-70	4,577	211
	2020	1,669	3,140	165	548	-8	4,104	189
	2021	1,219	4,000	146	707	-288	4,655	214
State of Palestine	2018	..	1,001	0	..	..	1,001	208
	2019	..	1,099	0	..	..	1,099	224
	2020	..	1,113	0	..	..	1,113	222
	2021	..	1,212	..	..	..	1,212	236
Syrian Arab Republic	2018	6,855	991	632	272	..	6,943	359
	2019	6,172	904	583	271	..	6,221	310
	2020	6,441	526	620	260	..	6,087	293
	2021	6,231	450	611	254	..	5,817	273
Tajikistan	2018	46	935	..	29	..	953	104
	2019	30	986	..	40	..	977	105
	2020	16	1,105	..	24	..	1,097	115
	2021	22	1,029	..	16	..	1,034	106
Thailand	2018	68,464	6,598	13,016	6,170	3,770	52,106	733
	2019	63,269	8,924	10,162	6,085	2,620	53,326	748
	2020	62,717	7,184	10,748	2,728	3,291	53,133	743
	2021	54,765	7,370	11,204	2,318	-3,936	52,548	734
Timor-Leste	2018	..	176	..	*3	..	172	137
	2019	..	213	..	*3	..	210	164
	2020	..	203	..	*3	..	200	154
	2021	..	199	..	*4	..	196	148
Türkiye	2018	30,160	27,480	5,004	4,633	739	47,264	571
	2019	38,348	20,804	8,491	5,202	-264	45,723	548
	2020	36,101	18,102	7,595	2,366	-187	44,429	528
	2021	39,296	18,558	7,514	3,193	-36	47,183	557

Table 26

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
Turkmenistan	2018	9,232	..	2,554	385	..	6,293	1,038
	2019	9,264	..	2,939	332	..	5,993	973
	2020	8,947	..	3,166	74	..	5,707	913
	2021	8,918	..	3,166	32	..	5,720	902
United Arab Emirates	2018	66,143	19,772	50,079	15,672	*-38	20,203	2,210
	2019	64,509	24,926	45,747	23,919	*-44	19,813	2,151
	2020	60,298	23,378	40,922	20,915	*-42	21,881	2,356
	2021	67,448	23,812	46,516	22,282	*-44	22,507	2,403
Uzbekistan	2018	3,847	163	6	*90	114	3,800	117
	2019	3,611	430	53	*133	-64	3,919	119
	2020	3,368	964	57	*111	-60	4,224	126
	2021	3,654	604	54	92	107	4,006	118
Viet Nam	2018	10,682	15,402	2,139	1,415	614	21,916	231
	2019	13,206	12,558	2,047	1,460	-30	22,287	233
	2020	15,260	10,944	2,284	713	636	22,571	234
	2021	14,298	9,952	2,297	592	211	21,151	217
Yemen	2018	2,040	1,524	538	102	..	2,923	95
	2019	2,018	1,454	498	104	..	2,870	91
	2020	1,509	1,436	346	95	..	2,504	78
	2021	1,336	1,475	303	94	..	2,414	73
Europe	**2018**	**1,012,401**	**411,994**	**517,792**	**122,447**	**-2,998**	**787,155**	**1,053**
	2019	**1,009,371**	**407,488**	**529,322**	**113,445**	**4,207**	**769,885**	**1,029**
	2020	**911,253**	**358,099**	**458,735**	**80,377**	**7,279**	**722,961**	**966**
	2021	**935,298**	**380,787**	**484,429**	**85,652**	**-15,702**	**761,707**	**1,019**
Albania	2018	416	1,075	145	37	84	1,225	426
	2019	453	1,135	184	40	71	1,294	450
	2020	231	1,004	103	47	70	1,015	354
	2021	278	1,025	120	45	47	1,091	382
Andorra	2018	..	162	..	0	..	162	2,157
	2019	..	158	..	0	..	158	2,069
	2020	..	121	..	0	..	121	1,562
	2021	..	132	..	0	..	132	1,673
Austria	2018	9,460	6,673	3,183	816	-90	12,224	1,383
	2019	9,841	6,734	2,944	943	12	12,677	1,428
	2020	8,705	6,234	2,879	321	300	11,440	1,284
	2021	8,675	6,130	3,030	409	-499	11,865	1,330
Belarus	2018	18,866	1,238	11,890	144	175	7,895	814
	2019	17,725	140	10,752	186	105	6,822	705
	2020	16,190	86	8,943	106	177	7,050	732
	2021	16,190	86	8,943	123	..	7,210	753
Belgium	2018	35,703	31,678	32,560	11,264	239	23,318	2,037
	2019	36,720	28,403	32,364	10,155	512	22,092	1,919
	2020	29,391	25,523	26,672	7,656	556	20,030	1,732
	2021	32,808	28,866	30,150	9,183	-898	23,238	2,001
Bosnia and Herzegovina	2018	704	1,132	242	7	-36	1,623	477
	2019	74	1,554	42	9	-37	1,614	480
	2020	13	1,519	11	4	-3	1,520	458
	2021	13	1,634	21	14	-64	1,676	512
Bulgaria	2018	6,390	2,169	3,537	331	-168	4,858	683
	2019	7,185	2,250	4,268	312	-25	4,879	692
	2020	5,268	2,267	2,849	220	-71	4,537	650
	2021	4,641	2,331	1,963	245	-55	4,819	700

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
Croatia	2018	3,994	2,189	2,426	196	90	3,472	834
	2019	2,982	2,808	2,167	215	5	3,404	824
	2020	2,652	2,456	1,773	72	-80	3,343	816
	2021	2,542	2,799	1,744	117	4	3,475	856
Czechia	2018	8,273	4,402	2,265	396	150	9,864	936
	2019	8,522	4,043	2,286	405	-36	9,910	941
	2020	6,941	4,214	1,854	110	17	9,174	871
	2021	8,017	4,381	2,244	119	-1	10,036	955
Denmark	2018	9,353	6,089	6,615	1,578	-452	7,702	1,336
	2019	8,908	7,211	6,528	1,750	775	7,065	1,219
	2020	8,493	6,985	7,062	876	709	6,830	1,172
	2021	8,500	4,737	7,147	883	-1,125	6,331	1,082
Estonia	2018	..	2,059	682	365	-64	1,076	814
	2019	..	1,862	508	236	60	1,059	798
	2020	..	2,232	808	304	79	1,041	783
	2021	..	2,061	817	330	-86	1,000	753
Faeroe Islands	2018	..	*275	..	39	..	*236	*4,632
	2019	..	*286	..	45	..	*241	*4,665
	2020	..	*301	..	53	..	*248	*4,723
	2021	..	*313	..	57	..	*256	*4,839
Finland	2018	15,438	4,813	8,807	1,086	-118	10,476	1,899
	2019	15,462	5,201	9,490	1,155	-253	10,271	1,860
	2020	14,281	5,420	8,732	588	261	10,120	1,830
	2021	10,834	5,060	6,461	551	-151	9,033	1,632
France	2018	60,773	42,347	19,969	7,784	-89	75,456	1,133
	2019	56,056	44,925	17,170	7,815	-126	76,122	1,141
	2020	41,381	42,881	12,597	3,596	-29	68,097	1,019
	2021	40,916	45,128	12,464	3,731	-730	70,579	1,055
Germany	2018	105,695	40,337	22,641	11,326	-494	112,559	1,358
	2019	107,107	42,136	22,050	10,906	280	116,007	1,395
	2020	102,675	34,834	22,345	5,749	-429	109,844	1,318
	2021	102,789	36,799	25,574	7,300	-223	106,937	1,282
Gibraltar	2018	..	4,428	..	4,178	..	250	7,652
	2019	..	4,528	..	4,280	..	248	7,581
	2020	..	4,542	..	4,344	..	198	6,039
	2021	..	4,435	..	4,239	..	197	6,022
Greece	2018	32,968	9,627	19,975	3,326	-76	19,370	1,822
	2019	30,375	9,595	18,100	3,711	-197	18,356	1,736
	2020	29,066	8,354	18,720	2,026	289	16,385	1,559
	2021	30,848	9,112	20,857	2,548	-436	16,992	1,627
Hungary	2018	8,198	4,133	3,554	267	-61	8,571	877
	2019	7,905	4,352	3,280	270	29	8,678	888
	2020	7,820	3,526	2,924	98	41	8,283	850
	2021	7,764	3,910	2,760	119	-15	8,810	907
Iceland	2018	15	1,130	..	484	63	598	1,694
	2019	12	893	..	368	-46	582	1,613
	2020	4	612	..	107	-23	531	1,449
	2021	..	753	..	170	29	554	1,496
Ireland	2018	3,183	5,980	1,693	1,210	-110	6,370	1,318
	2019	2,876	6,307	1,494	1,192	-107	6,605	1,349
	2020	3,053	5,078	1,519	526	129	5,956	1,204
	2021	3,195	5,344	1,605	588	-57	6,404	1,284

Table 26

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
Italy	2018	75,196	19,149	28,974	6,549	45	58,777	981
	2019	76,671	17,155	27,527	6,607	348	59,343	993
	2020	63,420	14,954	23,152	3,971	477	50,774	853
	2021	72,211	14,589	26,259	4,040	-3,019	59,519	1,004
Kosovo	2018	..	764	12	3	..	749	438
	2019	..	801	15	2	..	783	464
	2020	..	775	8	2	..	765	458
	2021	..	876	9	2	..	864	520
Latvia	2018	47	2,433	868	186	-21	1,446	747
	2019	44	2,285	479	442	11	1,397	729
	2020	60	1,978	288	260	114	1,376	725
	2021	60	1,903	337	281	-80	1,425	760
Lithuania	2018	9,894	1,092	7,532	328	34	3,093	1,075
	2019	9,718	1,096	7,464	318	-42	3,072	1,078
	2020	8,045	1,046	5,764	238	130	2,958	1,049
	2021	8,234	1,165	6,047	250	32	3,070	1,102
Luxembourg	2018	..	3,001	3	596	-8	2,409	3,963
	2019	..	3,067	5	583	11	2,467	3,980
	2020	..	2,518	3	531	-1	1,986	3,150
	2021	..	2,686	1	606	-4	2,083	3,258
Malta	2018	10	3,014	354	2,436	-66	300	610
	2019	11	3,135	383	2,500	-66	329	652
	2020	14	2,776	195	2,316	-17	296	574
	2021	11	2,426	107	2,077	-51	304	577
Montenegro	2018	..	414	29	26	-3	362	574
	2019	..	416	31	21	-14	378	599
	2020	..	321	11	5	-16	322	511
	2021	..	407	16	12	-3	382	609
Netherlands (Kingd. of the)	2018	65,758	87,696	109,524	15,234	-1,000	29,695	1,718
	2019	67,047	83,812	105,304	15,326	1,326	28,903	1,665
	2020	60,656	73,127	90,989	14,070	1,556	27,169	1,558
	2021	64,477	82,728	106,952	13,805	-2,822	29,270	1,672
North Macedonia	2018	0	1,243	158	..	22	1,062	502
	2019	0	1,251	159	..	20	1,072	507
	2020	0	1,162	109	..	40	1,012	480
	2021	0	1,263	154	..	15	1,094	520
Norway	2018	26,155	5,749	19,393	854	189	11,468	2,159
	2019	23,705	5,920	18,566	807	-150	10,402	1,945
	2020	21,943	5,912	16,844	415	158	10,437	1,940
	2021	20,138	6,124	16,523	418	-167	9,488	1,756
Poland	2018	29,896	9,263	5,915	1,247	142	31,855	827
	2019	30,207	8,799	5,242	1,320	124	32,319	840
	2020	28,844	7,924	4,606	743	24	31,395	817
	2021	28,239	10,261	4,038	893	255	33,313	870
Portugal	2018	14,589	3,781	5,290	2,164	336	10,579	1,028
	2019	13,243	4,875	4,802	2,405	-250	11,161	1,085
	2020	12,386	3,629	5,245	1,217	-51	9,603	932
	2021	11,743	4,968	5,007	1,322	-57	10,439	1,014
Republic of Moldova	2018	10	1,014	27	54	0	943	300
	2019	6	1,016	9	48	8	956	308
	2020	7	957	10	17	11	926	300
	2021	2	1,021	2	40	-28	1,009	330

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
Romania	2018	13,021	3,257	5,283	137	-151	11,009	561
	2019	13,838	3,280	5,393	164	-58	11,618	595
	2020	12,291	3,515	4,298	83	82	11,343	583
	2021	11,651	4,168	3,916	105	-75	11,872	614
Russian Federation	2018	285,776	1,187	*120,131	*17,258	292	149,282	1,025
	2019	297,661	1,365	154,398	8,060	176	136,392	936
	2020	280,926	1,531	123,994	11,451	158	146,855	1,008
	2021	290,268	1,101	123,446	11,573	1,233	155,117	1,069
Serbia	2018	4,013	1,002	924	152	54	3,885	523
	2019	3,634	1,217	789	154	-66	3,973	537
	2020	3,771	957	887	93	9	3,739	508
	2021	4,087	1,171	995	122	-17	4,158	570
Slovakia	2018	6,348	1,944	3,540	46	47	4,659	855
	2019	5,989	1,856	3,350	44	18	4,433	813
	2020	6,454	1,616	3,621	28	-4	4,425	811
	2021	6,461	1,652	3,446	22	-18	4,663	856
Slovenia	2018	74	4,752	2,112	263	-19	2,470	1,173
	2019	102	4,882	2,306	220	36	2,422	1,146
	2020	96	4,029	1,919	129	-11	2,088	986
	2021	106	3,863	1,604	99	-9	2,275	1,074
Spain	2018	69,593	20,871	25,500	11,706	-347	53,605	1,146
	2019	67,167	21,186	23,865	11,950	408	52,130	1,106
	2020	57,281	18,874	22,915	7,925	-30	45,345	957
	2021	59,680	20,214	22,349	9,067	-1,677	50,155	1,056
Sweden	2018	23,066	9,118	17,096	2,703	-793	13,179	1,297
	2019	19,334	8,461	11,609	2,916	668	12,602	1,227
	2020	21,067	8,437	13,215	2,894	2,005	11,391	1,099
	2021	22,843	7,264	16,646	2,893	-2,966	13,533	1,293
Switzerland	2018	3,272	6,907	441	1,798	-428	8,369	983
	2019	2,982	8,175	460	1,815	192	8,690	1,013
	2020	3,086	6,353	461	667	202	8,108	939
	2021	2,561	6,153	399	754	-303	7,863	905
Ukraine	2018	4,064	10,542	322	..	-68	14,352	323
	2019	*2,976	10,711	817	..	-106	12,976	293
	2020	*2,780	10,469	267	..	-24	13,006	296
	2021	*2,926	11,057	216	..	-63	13,830	318
United Kingdom	2018	62,192	41,866	24,180	13,872	-297	66,304	998
	2019	62,835	38,208	22,722	13,748	591	63,982	958
	2020	51,962	27,051	20,143	6,517	475	51,879	774
	2021	51,589	28,692	20,057	6,501	-1,621	55,343	823
Latin America & Carib.	**2018**	**274,685**	**158,216**	**54,838**	**22,297**	**-157**	**355,922**	**556**
	2019	**257,484**	**159,731**	**40,328**	**23,153**	**-2,014**	**355,748**	**551**
	2020	**234,445**	**132,411**	**42,874**	**14,290**	**399**	**309,292**	**475**
	2021	**248,391**	**150,408**	**42,415**	**16,994**	**134**	**339,256**	**518**
Anguilla	2018	..	41	..	*10	*-12	43	2,832
	2019	..	55	..	*12	*-4	47	3,056
	2020	..	43	..	*7	*-9	45	2,855
	2021	..	54	..	*12	*-4	46	2,901
Antigua and Barbuda	2018	..	*329	*4	*119	..	*206	*2,245
	2019	..	*339	*4	*122	..	*213	*2,316
	2020	..	*326	*3	*117	..	*206	*2,224
	2021	..	*342	*9	*121	..	*212	*2,273

Table 26

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
Argentina	2018	28,811	3,917	3,198	1,618	-50	27,962	630
	2019	29,178	2,987	3,586	1,339	-239	27,479	614
	2020	26,689	1,676	2,478	723	-307	25,472	566
	2021	26,898	4,330	1,962	522	-345	29,089	642
Aruba	2018	..	385	..	*100	..	285	2,686
	2019	..	*366	..	*95	..	*272	*2,553
	2020	..	*359	..	*90	..	*269	*2,521
	2021	..	*379	..	*98	..	*282	*2,644
Bahamas	2018	..	1,253	..	*410	47	796	1,981
	2019	..	1,286	..	*432	*32	821	2,029
	2020	..	1,026	..	*408	*-47	665	1,637
	2021	..	1,580	..	*601	*165	815	1,997
Barbados	2018	..	548	..	*128	-5	426	1,522
	2019	..	528	..	*127	-10	412	1,469
	2020	..	434	..	*62	7	364	1,297
	2021	..	410	..	*70	4	336	1,197
Belize	2018	1	200	..	14	..	187	489
	2019	1	249	..	25	..	225	579
	2020	1	196	..	24	..	173	437
	2021	*1	212	..	31	..	182	454
Bolivia (Plur. State of)	2018	2,745	1,381	283	64	2	3,778	325
	2019	2,489	1,748	198	64	20	3,954	336
	2020	2,397	1,008	138	26	8	3,233	271
	2021	2,486	1,740	210	29	-40	4,027	333
Bonaire, St Eustatius, Saba	2018	..	*84	..	*53	*-4	*35	*1,401
	2019	..	*87	..	*53	*-5	*38	*1,485
	2020	..	*75	..	*37	0	*39	*1,491
	2021	..	*75	..	*40	*-4	*38	*1,427
Brazil	2018	107,133	25,559	8,545	5,360	-420	119,207	567
	2019	107,105	28,073	8,560	5,762	545	120,311	568
	2020	110,780	23,020	13,833	4,812	64	115,091	540
	2021	112,844	28,150	12,568	4,062	701	123,663	577
British Virgin Islands	2018	..	*52	..	..	..	*52	*1,708
	2019	..	*59	..	..	..	*59	*1,934
	2020	..	*58	..	..	..	*58	*1,880
	2021	..	*59	..	..	..	*59	*1,905
Cayman Islands	2018	..	238	..	37	..	202	3,106
	2019	..	261	..	34	..	228	3,443
	2020	..	227	..	15	..	212	3,152
	2021	..	218	..	8	..	211	3,092
Chile	2018	9,727	8,130	811	772	52	16,222	867
	2019	10,245	7,542	536	823	217	16,210	851
	2020	8,507	7,772	612	418	-51	15,299	793
	2021	9,416	8,615	877	503	-59	16,710	857
Colombia	2018	20,278	5,947	5,441	90	34	20,660	419
	2019	20,651	5,209	5,414	1,455	-579	19,569	390
	2020	16,900	3,784	5,728	708	22	14,226	279
	2021	21,166	5,492	5,348	980	654	19,676	382
Costa Rica	2018	..	2,689	0	209	-87	2,566	509
	2019	..	2,781	0	224	90	2,468	485
	2020	..	2,220	0	97	-48	2,172	424
	2021	..	2,672	..	172	71	2,429	471

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
Cuba	2018	2,751	3,003	*691	*509	..	4,554	402
	2019	1,701	2,813	*496	*494	..	3,524	311
	2020	2,052	3,084	*393	*480	..	4,263	377
	2021	1,461	2,563	*67	*487	..	3,470	308
Curaçao	2018	3,087	3,170	2,819	2,126	..	1,311	7,098
	2019	0	2,911	0	2,055	..	856	4,435
	2020	..	2,345	..	1,652	..	693	3,659
	2021	..	2,507	..	1,750	..	756	3,973
Dominica	2018	..	*55	..	*2	*-1	*54	*765
	2019	..	*58	..	*2	*-1	*57	*797
	2020	..	*53	..	*2	0	*52	*720
	2021	..	*54	..	*2	0	*52	*724
Dominican Republic	2018	1,208	5,387	..	544	-20	6,072	564
	2019	1,156	6,084	..	457	-20	6,802	625
	2020	475	4,748	..	204	-36	5,055	460
	2021	977	4,997	..	355	-15	5,634	507
Ecuador	2018	8,382	6,137	3,138	977	14	10,391	611
	2019	7,402	6,703	2,996	832	26	10,251	591
	2020	6,151	5,773	2,933	286	7	8,697	494
	2021	7,640	6,481	3,095	1,082	-3	9,948	559
El Salvador	2018	..	2,110	17	174	..	1,919	306
	2019	..	2,517	7	183	..	2,327	370
	2020	..	2,121	8	68	..	2,046	325
	2021	..	2,488	3	127	..	2,358	373
Falkland Is. (Malvinas)	2018	..	11	..	..	..	11	3,064
	2019	..	12	..	..	..	12	3,137
	2020	..	12	..	..	..	12	3,268
	2021	..	12	..	..	..	12	3,155
Grenada	2018	..	107	..	8	-2	101	828
	2019	..	119	..	9	1	109	887
	2020	..	103	..	8	1	94	760
	2021	..	113	..	9	3	101	811
Guatemala	2018	147	4,727	255	528	-86	4,177	248
	2019	146	5,270	247	524	115	4,529	265
	2020	110	4,768	223	438	-40	4,257	245
	2021	132	5,573	306	553	8	4,838	275
Guyana	2018	..	778	..	17	-2	763	971
	2019	..	874	5	17	-1	853	1,068
	2020	..	894	31	5	-30	888	1,114
	2021	..	1,242	*39	*8	*137	1,058	1,315
Haiti	2018	..	1,114	..	22	..	1,091	99
	2019	..	1,015	..	22	..	993	89
	2020	..	1,081	..	22	..	1,060	94
	2021	..	1,143	..	21	..	1,122	98
Honduras	2018	..	3,462	428	..	90	2,943	301
	2019	..	3,843	444	..	-22	3,421	344
	2020	..	3,332	416	..	12	2,903	287
	2021	..	3,524	366	..	43	3,115	303
Jamaica	2018	1,032	1,893	289	254	-21	2,403	855
	2019	1,291	1,933	314	291	-6	2,625	933
	2020	1,167	1,217	631	149	5	1,599	567
	2021	1,011	1,232	503	167	37	1,535	543

Table 26

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
Mexico	2018	38,598	52,052	7,304	4,612	320	78,414	632
	2019	37,111	51,531	5,929	4,742	-1,491	79,462	635
	2020	36,759	42,339	7,498	1,924	657	69,019	548
	2021	41,839	45,711	9,493	3,226	-281	75,112	593
Montserrat	2018	..	11	..	*1	..	10	2,206
	2019	..	9	..	*1	..	8	1,782
	2020	..	9	..	*1	..	8	1,750
	2021	..	*9	..	*1	..	*8	*1,856
Nicaragua	2018	639	1,026	29	16	15	1,605	244
	2019	518	1,226	40	16	64	1,625	244
	2020	516	972	78	5	-34	1,439	213
	2021	670	951	100	9	-63	1,576	230
Panama	2018	..	3,184	0	592	67	2,524	606
	2019	..	3,287	1	597	-98	2,787	659
	2020	..	1,684	0	208	334	1,141	266
	2021	..	2,379	6	329	-164	2,208	507
Paraguay	2018	244	2,787	..	72	20	2,939	456
	2019	287	2,679	..	71	2	2,893	443
	2020	239	2,437	..	25	42	2,608	394
	2021	290	2,569	..	34	-82	2,907	434
Peru	2018	11,097	5,491	4,576	1,151	-245	11,106	345
	2019	10,693	5,129	3,597	1,116	-531	11,639	355
	2020	7,654	5,081	2,237	486	-202	10,213	307
	2021	8,386	5,552	2,629	713	-562	11,159	331
Sint Maarten (Dutch part)	2018	..	*491	..	*232	..	*259	*6,138
	2019	..	*495	..	*234	..	*261	*6,063
	2020	..	*467	..	*218	..	*249	*5,710
	2021	..	*492	..	*232	..	*259	*5,886
St. Kitts-Nevis	2018	..	*85	..	*5	..	*80	*1,680
	2019	..	*87	..	*5	..	*82	*1,710
	2020	..	*81	..	*5	..	*76	*1,602
	2021	..	*81	..	*5	..	*76	*1,586
St. Lucia	2018	..	200	..	33	..	168	943
	2019	..	198	..	*33	..	165	926
	2020	..	*189	..	*28	..	*161	*897
	2021	..	*196	..	*29	..	*167	*930
St. Vincent-Grenadines	2018	..	85	..	0	*5	80	758
	2019	..	65	..	0	*-8	73	698
	2020	..	72	..	0	*-7	78	748
	2021	..	*72	..	0	*-6	*78	*745
Suriname	2018	671	183	*350	*78	1	425	716
	2019	637	291	*279	*77	0	571	952
	2020	618	295	*194	*69	1	650	1,071
	2021	686	264	*246	*77	0	627	1,023
Trinidad and Tobago	2018	5,874	..	4,153	601	131	988	657
	2019	843	2,072	1,476	231	-31	1,239	815
	2020	710	1,895	1,324	160	13	1,109	731
	2021	608	1,877	1,263	172	14	1,036	679
Turks and Caicos Islands	2018	..	*144	..	*25	..	*119	*2,878
	2019	..	*145	..	*25	..	*121	*2,799
	2020	..	*143	..	*24	..	*119	*2,679
	2021	..	*146	..	*25	..	*121	*2,687

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
Uruguay	2018	2,168	202	1	248	-1	2,122	619
	2019	2,096	182	7	254	-82	2,099	612
	2020	1,949	340	7	140	39	2,103	613
	2021	2,145	482	21	132	-74	2,549	744
Venezuela (Bolivar. Rep.)	2018	30,093	9,568	12,506	488	..	26,667	894
	2019	23,934	6,613	6,191	297	..	24,059	830
	2020	10,770	4,652	4,108	137	..	11,177	392
	2021	9,735	3,371	3,306	202	..	9,599	340
Northern America	**2018**	**1,090,847**	**118,157**	**254,192**	**49,503**	**-1,002**	**906,311**	**2,454**
	2019	**1,097,224**	**126,059**	**251,772**	**52,321**	**266**	**918,924**	**2,470**
	2020	**970,902**	**107,588**	**235,140**	**33,211**	**-1,530**	**811,669**	**2,170**
	2021	**1,022,379**	**121,324**	**244,055**	**39,019**	**-8,088**	**868,717**	**2,315**
Bermuda	2018	..	256	..	*27	*2	227	3,578
	2019	..	215	..	*25	*-4	194	3,047
	2020	..	163	..	*21	..	142	2,221
	2021	..	183	..	*23	-9	169	2,632
Canada	2018	92,976	13,613	21,777	5,130	303	79,379	2,143
	2019	109,720	14,900	24,986	4,994	-257	94,896	2,529
	2020	98,772	9,409	22,157	2,338	-62	83,747	2,210
	2021	101,761	9,963	23,778	2,273	-210	85,883	2,251
Greenland	2018	..	189	..	21	*-13	180	3,221
	2019	..	204	..	20	*-1	186	3,317
	2020	..	188	..	20	*-10	178	3,176
	2021	..	194	..	12	*1	181	3,218
St. Pierre-Miquelon	2018	..	*25	..	*5	..	*20	*3,297
	2019	..	*27	..	*5	..	*21	*3,595
	2020	..	*23	..	*3	..	*20	*3,403
	2021	..	*20	..	*2	..	*18	*3,060
United States	2018	997,871	104,075	232,415	44,320	-1,294	826,505	2,488
	2019	987,504	110,713	226,786	47,276	528	823,626	2,464
	2020	872,130	97,804	212,983	30,828	-1,459	727,582	2,166
	2021	920,618	110,964	220,277	36,709	-7,870	782,466	2,322
Oceania	**2018**	**30,417**	**37,694**	**3,628**	**6,878**	**1,380**	**56,225**	**1,322**
	2019	**33,314**	**37,120**	**4,054**	**7,361**	**185**	**58,833**	**1,359**
	2020	**30,774**	**36,723**	**4,979**	**5,201**	**-554**	**57,872**	**1,317**
	2021	**26,381**	**36,822**	**4,771**	**2,226**	**-79**	**56,284**	**1,265**
American Samoa	2018	..	*154	..	*25	..	*129	*2,656
	2019	..	*154	..	*25	..	*129	*2,718
	2020	..	*147	..	*23	..	*124	*2,678
	2021	..	*147	..	*23	..	*124	*2,747
Australia	2018	23,732	30,129	2,733	5,022	1,010	45,098	1,805
	2019	26,000	29,888	3,125	5,503	315	46,944	1,851
	2020	24,607	30,098	4,156	4,315	-652	46,886	1,826
	2021	20,539	30,184	3,801	1,591	209	45,122	1,741
Cook Islands	2018	..	*35	..	*10	..	*26	*1,484
	2019	..	*36	..	*10	..	*26	*1,513
	2020	..	*25	..	*3	..	*22	*1,290
	2021	..	*26	..	*2	..	*24	*1,406
Fiji	2018	..	*899	*330	*96	*25	*449	*488
	2019	..	*887	*337	*91	*10	*450	*490
	2020	..	*535	*169	*33	..	*333	*361
	2021	..	*637	*220	*55	..	*362	*392

Table 26

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
French Polynesia	2018	..	298	..	..	9	289	972
	2019	..	295	..	..	3	293	977
	2020	..	278	..	..	5	274	906
	2021	..	296	..	..	10	286	942
Kiribati	2018	..	*24	..	*1	..	*23	*190
	2019	..	*24	..	*1	..	*23	*188
	2020	..	*24	..	*1	..	*23	*182
	2021	..	*24	..	*1	..	*23	*178
Marshall Islands	2018	..	*50	..	*2	..	*48	*1,046
	2019	..	*50	..	*2	..	*48	*1,078
	2020	..	*50	..	*2	..	*48	*1,096
	2021	..	*49	..	*2	..	*47	*1,127
Micronesia (Fed. States of)	2018	..	*59	..	*10	..	*49	*444
	2019	..	*59	..	*10	..	*49	*443
	2020	..	*59	..	*10	..	*49	*436
	2021	..	*58	..	*10	..	*48	*427
Nauru	2018	..	*25	..	*8	..	*18	*1,474
	2019	..	*25	..	*8	..	*17	*1,422
	2020	..	*24	..	*7	..	*17	*1,415
	2021	..	*26	..	*7	..	*18	*1,468
New Caledonia	2018	..	950	..	39	-12	923	3,240
	2019	..	903	..	36	4	863	3,023
	2020	..	840	..	21	33	787	2,746
	2021	..	680	..	23	-75	732	2,544
New Zealand	2018	5,518	3,122	205	1,528	336	6,571	1,358
	2019	6,229	2,764	128	1,543	-76	7,398	1,492
	2020	4,815	2,988	..	672	153	6,978	1,379
	2021	4,428	3,043	202	396	-197	7,070	1,378
Niue	2018	..	*2	..	0	..	*2	*1,010
	2019	..	*3	..	0	..	*2	*1,072
	2020	..	*3	..	0	..	*2	*1,054
	2021	..	*3	..	*1	..	*2	*1,073
Northern Mariana Islands	2018	..	*199	..	*23	..	*176	*3,499
	2019	..	*200	..	*23	..	*177	*3,550
	2020	..	*139	..	*13	..	*126	*2,541
	2021	..	*153	..	*16	..	*137	*2,769
Palau	2018	..	*77	..	*7	..	*71	*3,952
	2019	..	*79	..	*7	..	*72	*4,041
	2020	..	*76	..	*6	..	*70	*3,867
	2021	..	*76	..	*6	..	*70	*3,856
Papua New Guinea	2018	1,167	1,332	360	66	12	2,062	221
	2019	1,085	1,406	463	*63	*-68	2,034	213
	2020	1,352	1,108	653	*66	*-75	1,816	186
	2021	*1,415	*1,083	*548	*64	*-11	*1,896	*191
Samoa	2018	..	95	*1	*12	0	81	387
	2019	..	110	*1	*12	*6	91	429
	2020	..	*84	0	*5	*-3	*81	*379
	2021	..	*87	*1	*5	0	*81	*372
Solomon Islands	2018	..	*107	..	*9	..	*97	*148
	2019	..	*108	..	*9	..	*99	*146
	2020	..	*105	..	*8	..	*97	*141
	2021	..	*104	..	*8	..	*96	*136

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
Tonga	2018	..	49	..	*4	*1	44	419
	2019	..	44	..	*1	*-9	52	496
	2020	..	45	..	0	*-16	61	578
	2021	..	46	..	0	*-16	61	579
Tuvalu	2018	..	*3	..	0	..	*3	*288
	2019	..	*3	..	0	..	*3	*286
	2020	..	*3	..	0	..	*3	*271
	2021	..	*3	..	0	..	*3	*272
Vanuatu	2018	..	74	..	*16	..	58	195
	2019	..	71	..	*17	..	54	179
	2020	..	83	..	*16	..	67	216
	2021	..	88	..	*16	..	72	224
Wallis and Futuna Is.	2018	..	9	..	1	..	8	692
	2019	..	10	..	1	..	8	721
	2020	..	10	..	1	..	9	770
	2021	..	10	..	1	..	9	788

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 69: Production of natural gas liquids by region, 1990-2021

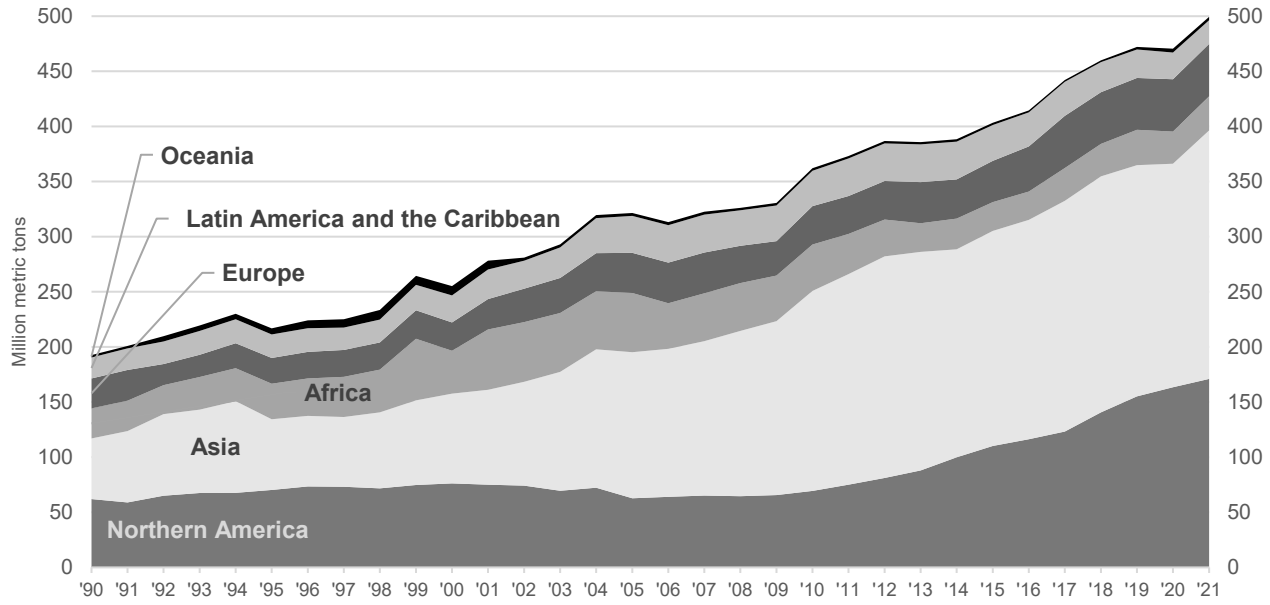


Figure 70: Production of natural gas liquids by end-use product, 2021

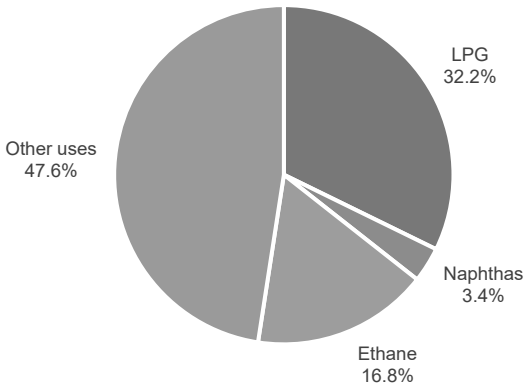


Table 27

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	**2018**	**459,924**	**156,301**	**15,075**	**75,324**	**7,674**	**-54,427**	**118,075**
	2019	**472,035**	**162,386**	**16,280**	**75,702**	**8,361**	**-63,832**	**105,232**
	2020	**470,433**	**164,270**	**15,143**	**81,264**	**7,109**	**-61,831**	**110,189**
	2021	**499,418**	**161,005**	**16,793**	**84,074**	**8,598**	**-68,560**	**105,601**
Africa	**2018**	**29,451**	**12,805**	**231**	**..**	**..**	**-10,366**	**4,662**
	2019	**32,053**	**12,810**	**240**	**..**	**..**	**-13,175**	**3,738**
	2020	**29,155**	**12,371**	**190**	**..**	**..**	**-10,564**	**4,285**
	2021	**30,919**	**12,813**	**216**	**..**	**..**	**-12,136**	**4,360**
Algeria	2018	17,220	8,314	81	..	..	-4,290	4,574
	2019	16,517	8,259	107	..	..	-4,374	3,650
	2020	15,444	7,741	96	..	..	-3,253	4,231
	2021	16,076	8,285	95	..	..	-3,145	4,305
Angola	2018	*2,493	2,075	..	..	..	*-449	..
	2019	*2,818	2,358	..	..	..	*-429	..
	2020	*2,827	2,337	..	..	..	*-477	..
	2021	*2,411	2,010	..	..	..	*-377	..
Cameroon	2018	16	16	..	..	..	..	..
	2019	24	24	..	..	..	..	..
	2020	25	25	..	..	..	..	..
	2021	35	35	..	..	..	..	..
Congo	2018	301	..	..	..	..	-276	25
	2019	301	..	..	..	..	-276	25
	2020	301	..	..	..	..	-277	24
	2021	301	..	..	..	..	-276	25
Côte d'Ivoire	2018	5	5	..	..	..	..	..
	2019	6	6	..	..	..	..	..
	2020	6	6	..	..	..	..	..
	2021	43	43	..	..	..	..	..
Egypt	2018	3,193	1,299	..	..	..	-451	..
	2019	3,218	1,193	..	..	..	-418	..
	2020	2,875	1,196	..	..	..	-287	..
	2021	2,656	1,193	..	..	..	-261	..
Equatorial Guinea	2018	606	606	..	..	..	..	..
	2019	528	528	..	..	..	..	..
	2020	478	478	..	..	..	..	..
	2021	376	376	..	..	..	..	..
Ghana	2018	80	80	..	..	..	..	..
	2019	66	66	..	..	..	..	..
	2020	84	84	..	..	..	..	..
	2021	93	93	..	..	..	..	..
Libya	2018	2,870	292	150	..	..	-2,428	..
	2019	3,420	273	133	..	..	-3,014	..
	2020	1,625	275	94	..	..	-1,256	..
	2021	3,707	279	121	..	..	-3,307	..
Mozambique	2018	8	..	..	..	..	-8	..
	2019	7	..	..	..	..	-7	..
	2020	6	..	..	..	..	-6	..
	2021	6	..	..	..	..	-6	..
Nigeria	2018	2,424	..	..	..	..	-2,413	..
	2019	4,943	..	..	..	..	-4,623	..
	2020	5,314	136	..	..	..	-4,969	..
	2021	5,034	406	..	..	..	-4,708	..

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		
South Africa	2018	63	..	..	..	..	..	63
	2019	63	..	..	..	..	..	63
	2020	30	..	..	..	..	..	30
	2021	30	..	..	..	..	..	30
Tunisia	2018	172	118	..	..	..	-51	..
	2019	142	102	..	..	..	-34	..
	2020	140	93	..	..	..	-39	..
	2021	151	93	..	..	..	-56	..
Asia	**2018**	**214,020**	**72,386**	**13,885**	**32,775**	**148**	**-39,332**	**48,388**
	2019	**209,736**	**69,537**	**15,196**	**31,580**	**178**	**-42,203**	**39,445**
	2020	**202,643**	**66,346**	**14,147**	**33,733**	**175**	**-44,752**	**44,410**
	2021	**225,295**	**61,646**	**15,806**	**33,764**	**59**	**-45,871**	**40,436**
Azerbaijan	2018	2,889	12	20	..	..	-2,510	347
	2019	3,904	12	20	..	..	-3,534	338
	2020	4,199	14	23	..	..	-3,544	619
	2021	5,343	13	23	..	..	-4,192	1,115
Bahrain	2018	385	..	..	..	..	-365	..
	2019	651	..	..	..	..	-693	..
	2020	636	..	..	..	..	-627	..
	2021	520	..	..	..	..	-505	..
Bangladesh	2018	407	6	..	..	148	..	243
	2019	392	7	..	..	178	..	189
	2020	361	5	..	..	175	..	162
	2021	309	1	..	..	59	..	244
Brunei Darussalam	2018	518	17	..	..	..	-392	126
	2019	524	18	..	..	..	-406	100
	2020	432	18	..	..	..	-388	27
	2021	382	17	..	..	..	-365	..
India	2018	*4,932	*2,086	*1,250	..	..	..	*1,596
	2019	*4,763	*2,100	*1,280	..	..	..	*1,383
	2020	*4,212	*1,859	975	..	..	..	*1,378
	2021	4,051	*1,649	*971	..	..	..	*1,425
Indonesia	2018	*969	1,143	..	..	..	241	67
	2019	*1,164	1,140	..	..	..	1,583	..
	2020	1,063	1,024	..	..	..	..	..
	2021	*1,039	1,039	..	..	..	..	..
Iran (Islamic Rep. of)	2018	29,353	2,656	..	10,013	..	-11,167	2,491
	2019	28,577	3,002	..	9,332	..	-10,872	2,425
	2020	29,086	2,834	..	9,719	..	-11,066	2,468
	2021	30,810	2,945	..	10,353	..	-11,722	2,615
Iraq	2018	1,978	1,540	..	..	..	..	438
	2019	2,019	1,573	..	..	..	..	447
	2020	1,977	1,540	..	..	..	..	437
	2021	2,076	1,617	..	..	..	..	459
Japan	2018	215	..	..	..	..	1,725	1,870
	2019	198	..	..	..	..	2,232	2,390
	2020	185	..	..	..	..	1,232	1,415
	2021	180	..	..	..	..	311	403
Kazakhstan	2018	12,863	1,493	..	..	..	-11,371	..
	2019	11,912	1,552	..	..	..	-10,360	..
	2020	12,649	1,571	..	..	..	-11,078	..
	2021	12,691	1,195	..	..	1	*-11,495	..

Table 27

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		
Kuwait	2018	9,004	6,849	..	2,155	..	..	..
	2019	8,026	5,871	..	2,155	..	..	..
	2020	8,403	6,248	..	2,155	..	..	..
	2021	7,070	5,106	..	1,964	..	..	..
Malaysia	2018	2,398	1,906	230	..	..	..	..
	2019	1,937	1,837	*191	..	..	..	..
	2020	1,837	1,891	*230	..	..	..	..
	2021	1,114	1,207	*163	..	..	..	..
Myanmar	2018	13	13	5	..	..	..	..
	2019	13	7	4	..	..	..	..
	2020	5	..	*5	..	..	..	..
	2021	5	..	5	..	..	..	..
Oman	2018	239	239	..	..	..	..	..
	2019	281	281	..	..	..	..	..
	2020	216	216	..	..	..	..	..
	2021	215	215	..	..	..	..	..
Pakistan	2018	270	270	..	..	..	..	..
	2019	255	255	..	..	..	..	..
	2020	277	277	..	..	..	..	..
	2021	284	284	..	..	..	..	..
Qatar	2018	42,758	10,523	..	1,006	..	-18,840	12,390
	2019	40,268	8,031	..	1,007	..	-18,840	12,390
	2020	39,788	7,056	..	2,618	..	-18,255	11,859
	2021	39,248	5,691	..	2,635	..	-17,111	13,811
Saudi Arabia	2018	57,207	28,099	8,717	13,356	..	4,341	8,494
	2019	55,889	26,872	9,533	*12,913	..	0	*871
	2020	49,228	25,267	8,631	*12,778	..	-157	7,559
	2021	67,772	24,071	8,588	*12,597	..	0	*19
Syrian Arab Republic	2018	76	76	..	..	..	..	..
	2019	86	86	..	..	..	..	..
	2020	95	95	..	..	..	..	..
	2021	95	95	..	..	..	..	..
Thailand	2018	6,861	4,309	..	2,388	..	-18	..
	2019	6,673	4,238	..	2,220	..	-33	..
	2020	6,151	3,526	..	1,911	..	-49	..
	2021	6,228	3,628	..	1,897	..	-22	..
Turkmenistan	2018	989	668	..	..	..	..	321
	2019	1,015	832	..	..	..	..	183
	2020	968	794	..	..	..	..	174
	2021	981	804	..	..	..	..	177
United Arab Emirates	2018	35,981	9,886	3,663	3,857	..	..	17,861
	2019	36,867	11,104	4,168	3,953	..	..	16,408
	2020	37,196	11,409	4,283	4,552	..	..	16,174
	2021	41,518	11,409	6,056	4,317	..	..	18,235
Uzbekistan	2018	2,145	..	..	..	..	0	2,145
	2019	2,310	..	..	..	..	11	2,321
	2020	2,028	..	..	..	..	108	2,136
	2021	*1,824	..	..	..	..	*110	*1,934
Viet Nam	2018	381	381	..	..	..	..	..
	2019	391	391	..	..	..	..	..
	2020	392	372	..	..	..	..	..
	2021	360	360	..	..	..	..	..

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		
Yemen	2018	214	214	..	..	..	..	..
	2019	328	328	..	..	..	..	..
	2020	329	329	..	..	..	..	..
	2021	301	301	..	..	..	..	..
Europe	**2018**	**46,944**	**6,691**	**939**	**2,563**	**640**	**7,024**	**38,220**
	2019	**47,025**	**6,465**	**843**	**1,835**	**824**	**3,298**	**36,404**
	2020	**47,528**	**6,363**	**807**	**1,707**	**305**	**5,085**	**38,329**
	2021	**47,665**	**5,290**	**771**	**1,314**	**682**	**3,091**	**38,688**
Austria	2018	18	..	..	..	..	..	18
	2019	16	..	..	..	..	..	16
	2020	14	..	..	..	..	..	14
	2021	11	..	..	..	..	..	11
Belarus	2018	100	97	..	..	3	..	..
	2019	102	98	..	..	4	..	..
	2020	107	103	..	..	4	..	..
	2021	107	103	..	..	4	..	..
Belgium	2018	..	..	..	..	..	21	..
	2019	..	..	..	..	..	..	..
	2020	..	..	..	..	..	..	..
	2021	..	..	..	..	..	..	..
Croatia	2018	58	38	..	..	..	..	19
	2019	59	40	..	..	..	..	13
	2020	51	34	17	..	..	..	..
	2021	50	33	17	..	..	..	..
Finland	2018	..	..	..	..	..	1,189	1,261
	2019	..	..	..	..	..	549	673
	2020	..	..	..	..	..	647	665
	2021	..	..	..	..	..	587	619
France	2018	..	..	..	..	335	335	..
	2019	..	..	..	..	186	186	..
	2020	..	..	..	..	..	..	..
	2021	..	..	..	..	..	24	..
Hungary	2018	242	75	..	..	..	..	159
	2019	184	43	..	..	..	..	137
	2020	145	35	..	..	..	..	110
	2021	168	39	..	..	..	..	124
Italy	2018	..	..	..	..	..	..	..
	2019	..	..	..	..	..	..	..
	2020	10	..	..	..	..	..	10
	2021	10	..	..	..	..	..	10
Montenegro	2018	..	..	..	..	..	4	..
	2019	..	..	..	..	..	5	..
	2020	..	..	..	..	..	4	..
	2021	..	..	..	..	..	4	..
Netherlands (Kingd. of the)	2018	204	..	..	..	302	6,053	3,202
	2019	132	..	..	..	634	4,759	2,365
	2020	112	..	..	..	301	6,502	3,606
	2021	98	..	..	..	678	4,618	2,021
Norway	2018	10,006	5,598	939	1,447	..	..	..
	2019	9,061	5,309	843	1,098	..	..	..
	2020	8,759	5,073	789	1,012	..	..	..
	2021	7,699	4,340	754	715	..	..	..

Table 27

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		
Romania	2018	91	..	..	..	..	-16	63
	2019	129	..	..	..	..	-30	78
	2020	123	..	..	..	..	-27	70
	2021	123	..	..	..	..	-27	87
Russian Federation	2018	32,199	..	..	..	..	-229	31,963
	2019	33,431	..	..	..	..	-1,838	31,589
	2020	34,099	..	..	..	..	-1,709	32,386
	2021	36,001	..	..	..	..	-1,509	34,492
Serbia	2018	34	..	..	..	..	2	36
	2019	31	..	..	..	..	31	61
	2020	32	..	..	..	..	23	54
	2021	28	..	..	..	..	27	53
Slovakia	2018	2	..	..	..	..	..	2
	2019	2	..	..	..	..	..	2
	2020	2	..	..	..	..	..	2
	2021	2	..	..	..	..	..	2
Slovenia	2018	1	..	..	..	..	-1	..
	2019	0	..	..	..	..	0	..
	2020	0	..	..	..	..	0	..
	2021	0	..	..	..	..	0	..
Ukraine	2018	669	..	..	..	..	44	704
	2019	735	..	..	..	..	1	737
	2020	746	..	..	..	..	..	746
	2021	744	..	..	..	..	..	738
United Kingdom	2018	3,320	883	..	1,116	..	-379	793
	2019	3,144	975	..	736	..	-365	733
	2020	3,327	1,119	..	695	..	-355	667
	2021	2,625	776	..	599	..	-633	530
Latin America & Carib.	**2018**	**27,191**	**10,215**	**20**	**2,869**	**3,665**	**-251**	**7,404**
	2019	**25,816**	**9,740**	**0**	**2,667**	**3,209**	**-286**	**6,541**
	2020	**24,271**	**8,960**	**0**	**2,851**	**3,074**	**-291**	**5,488**
	2021	**21,488**	**8,929**	**..**	**2,439**	**2,837**	**-275**	**4,455**
Argentina	2018	3,859	1,747	..	1,102	..	-263	747
	2019	4,106	1,995	..	1,074	..	-270	767
	2020	*4,129	1,723	..	1,379	..	-277	750
	2021	*4,218	1,928	..	1,296	..	-255	739
Belize	2018	*1	1	..	..	..	..	..
	2019	*1	1	..	..	..	..	..
	2020	1	1	..	..	..	..	..
	2021	*1	*1	..	..	..	..	..
Bolivia (Plur. State of)	2018	1,029	419	..	..	..	-15	595
	2019	1,034	469	..	..	..	-16	549
	2020	977	433	..	..	..	-14	530
	2021	1,111	506	..	..	..	-20	585
Brazil	2018	5,517	1,334	20	..	1,580	..	1,664
	2019	5,735	1,288	0	..	1,120	..	1,764
	2020	6,142	1,293	0	..	1,147	..	1,546
	2021	5,255	1,306	..	..	1,157	..	810
Chile	2018	224	..	..	..	..	..	..
	2019	307	..	..	..	..	..	..
	2020	285	..	..	..	..	..	..
	2021	254	..	..	..	..	..	..

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		
Colombia	2018	334	334	..	..	0	..	..
	2019	376	376	..	..	0	..	..
	2020	442	442	..	..	..	..	..
	2021	447	447	..	..	..	..	..
Curaçao	2018	..	27	..	..	..	27	..
	2019	..	0	..	..	..	0	..
	2020	..	..	..	..	..	..	..
	2021	..	..	..	..	..	..	..
Ecuador	2018	*178	100	..	..	71	..	8
	2019	*164	91	..	..	64	..	9
	2020	*151	79	..	..	64	..	8
	2021	*171	95	..	..	68	..	7
Mexico	2018	6,764	3,357	..	1,767	..	..	1,549
	2019	6,218	3,047	..	1,593	..	..	1,486
	2020	5,875	2,873	..	1,472	..	..	1,420
	2021	4,802	2,503	..	1,143	..	..	1,087
Peru	2018	3,362	1,210	..	..	1,537	..	..
	2019	3,411	1,262	..	..	1,534	..	..
	2020	3,350	1,273	..	..	1,487	..	..
	2021	2,594	1,313	..	..	1,281	..	..
Trinidad and Tobago	2018	805	454	..	..	388	..	..
	2019	801	436	..	..	408	..	..
	2020	673	360	..	..	350	..	..
	2021	574	303	..	..	305	..	..
Venezuela (Bolivar. Rep.)	2018	5,117	1,233	..	..	89	..	2,841
	2019	3,662	775	..	..	83	..	1,966
	2020	2,246	483	..	..	26	..	1,234
	2021	2,061	528	..	..	25	..	1,227
Northern America	**2018**	**140,659**	**52,545**	**..**	**37,116**	**3,221**	**-11,502**	**19,401**
	2019	**155,114**	**61,544**	**..**	**39,621**	**4,150**	**-11,466**	**19,104**
	2020	**163,441**	**66,835**	**..**	**42,973**	**3,556**	**-11,308**	**17,677**
	2021	**170,974**	**69,250**	**..**	**46,557**	**5,018**	**-13,369**	**17,662**
Canada	2018	17,550	..	..	..	..	-4,300	1,700
	2019	18,587	..	..	..	..	-4,719	2,440
	2020	18,042	..	..	..	..	-3,724	2,590
	2021	18,426	..	..	..	..	-5,622	2,559
United States	2018	123,109	52,545	..	37,116	3,221	-7,202	17,701
	2019	136,527	61,544	..	39,621	4,150	-6,748	16,664
	2020	145,399	66,835	..	42,973	3,556	-7,584	15,086
	2021	152,548	69,250	..	46,557	5,018	-7,747	15,104
Oceania	**2018**	**1,659**	**1,659**	**..**	**..**	**..**	**..**	**..**
	2019	**2,291**	**2,291**	**..**	**..**	**..**	**..**	**..**
	2020	**3,395**	**3,395**	**..**	**..**	**..**	**..**	**..**
	2021	**3,077**	**3,077**	**..**	**..**	**..**	**..**	**..**
Australia	2018	1,475	1,475	..	..	..	..	..
	2019	2,120	2,120	..	..	..	..	..
	2020	3,226	3,226	..	..	..	..	..
	2021	2,926	2,926	..	..	..	..	..
New Zealand	2018	184	184	..	..	..	..	..
	2019	172	172	..	..	..	..	..
	2020	169	169	..	..	..	..	..
	2021	151	151	..	..	..	..	..

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 71: Production of natural gas by region, 1990-2021

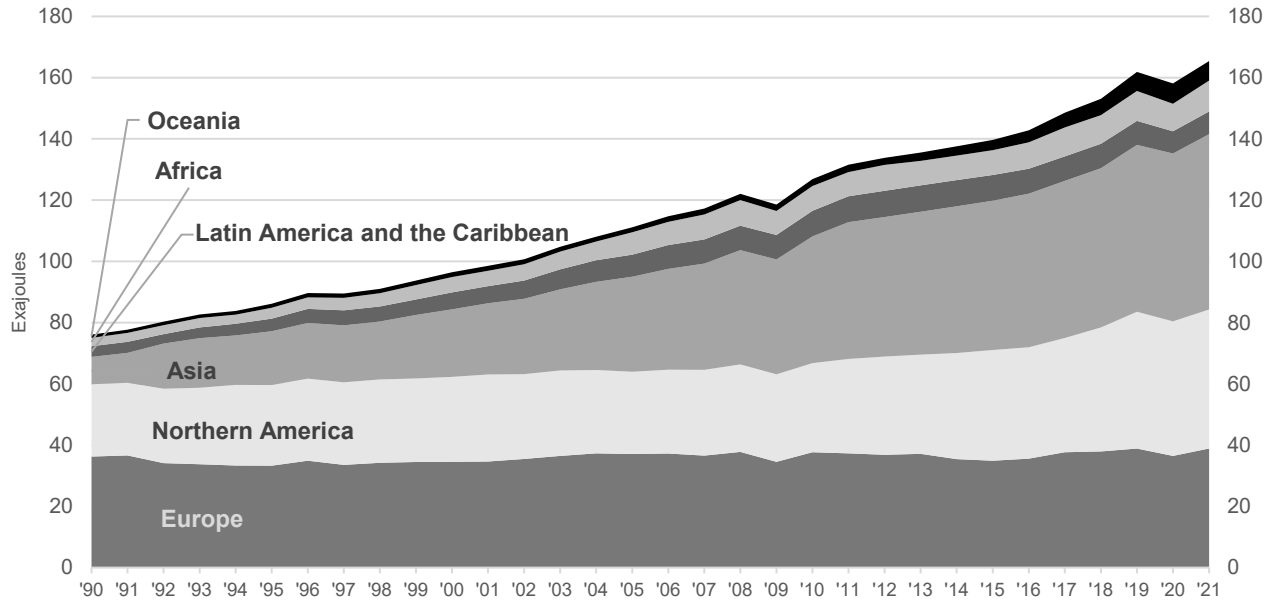


Figure 72: Major natural gas producing countries, 2021

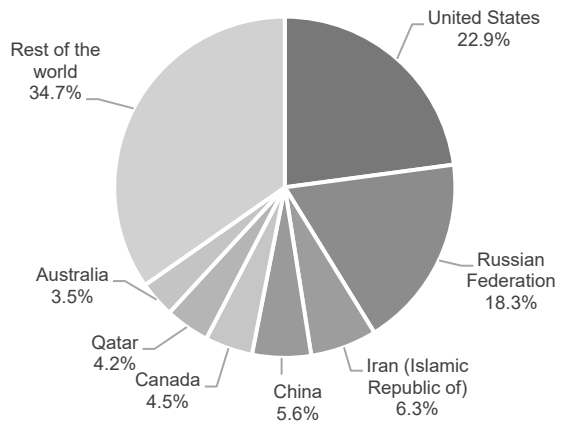


Figure 73: Major natural gas consuming countries, 2021

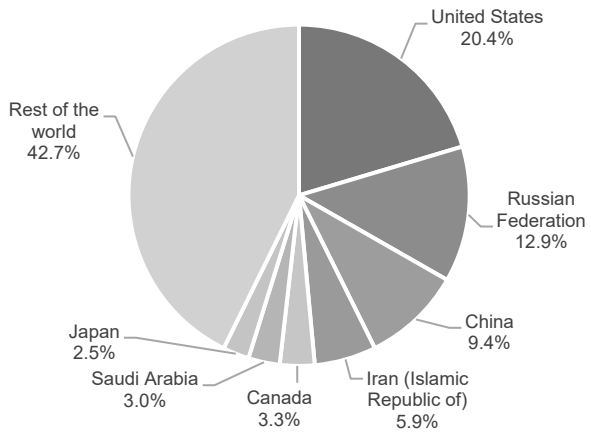


Table 28

Production, trade and supply of natural gas

Terajoules and megajoules per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
World	**2018**	**153,090,324**	**45,104,681**	**44,957,158**	**5,671**	**-517,044**	**153,749,220**	**20,010**
	2019	**161,860,437**	**46,870,475**	**48,427,977**	**11,312**	**1,737,263**	**158,554,360**	**20,419**
	2020	**158,099,280**	**45,389,409**	**47,058,729**	**14,778**	**-525,314**	**156,940,496**	**20,016**
	2021	**165,425,444**	**48,098,258**	**49,503,091**	**17,896**	**-1,246,860**	**165,249,576**	**20,893**
Africa	**2018**	**9,382,707**	**594,774**	**3,842,642**	**..**	**2,068**	**6,132,770**	**4,739**
	2019	**9,772,784**	**376,097**	**3,711,287**	**..**	**1,366**	**6,436,228**	**4,852**
	2020	**8,986,817**	**453,838**	**3,425,389**	**..**	**-7,297**	**6,022,563**	**4,430**
	2021	**10,065,130**	**544,224**	**4,046,015**	**..**	**2,302**	**6,561,037**	**4,712**
Algeria	2018	3,815,473	..	2,006,499	..	2,068	1,806,906	43,096
	2019	3,540,610	..	1,669,162	..	1,366	1,870,082	43,790
	2020	3,301,528	..	1,539,769	..	-7,297	1,769,056	40,713
	2021	4,105,517	..	2,146,467	..	2,302	1,956,747	44,292
Angola	2018	235,220	..	202,540	..	..	32,680	1,045
	2019	258,400	..	209,000	..	..	49,400	1,527
	2020	*286,900	..	*236,360	..	..	*50,540	*1,512
	2021	*231,040	..	180,880	..	..	*50,160	*1,454
Benin	2018	..	727	..	..	..	727	61
	2019	..	2,194	..	..	..	2,194	178
	2020	..	6,457	..	..	..	6,457	511
	2021	..	7,167	..	..	..	7,167	551
Cameroon	2018	60,800	..	31,160	..	..	29,640	1,182
	2019	89,680	..	62,700	..	..	26,980	1,046
	2020	90,440	..	55,860	..	..	34,580	1,305
	2021	88,540	..	60,040	..	..	28,500	1,048
Congo	2018	27,316	..	..	..	..	27,316	5,020
	2019	38,328	..	..	..	..	38,328	6,880
	2020	40,024	..	..	..	..	40,024	7,019
	2021	41,358	..	..	..	..	41,358	7,087
Côte d'Ivoire	2018	81,164	..	..	..	..	81,164	3,184
	2019	86,558	..	..	..	..	86,558	3,310
	2020	88,770	..	..	..	..	88,770	3,311
	2021	92,597	..	..	..	..	92,597	3,370
Egypt	2018	1,909,150	218,726	40,195	..	..	2,087,681	20,124
	2019	2,643,004	..	193,035	..	..	2,449,969	23,196
	2020	2,370,530	81,700	81,359	..	..	2,370,871	22,062
	2021	2,701,721	156,180	358,822	..	..	2,499,078	22,872
Equatorial Guinea	2018	302,441	..	193,701	..	..	108,740	72,392
	2019	243,285	..	164,363	..	..	78,922	50,818
	2020	235,023	..	141,422	..	..	93,602	58,646
	2021	274,981	..	160,482	..	..	114,499	70,053
Gabon	2018	19,981	..	..	..	..	19,981	9,115
	2019	17,493	..	..	..	..	17,493	7,800
	2020	18,925	..	..	..	..	18,925	8,255
	2021	17,116	..	..	..	..	17,116	7,311
Ghana	2018	41,224	27,470	..	..	..	68,693	2,225
	2019	58,367	25,073	..	..	..	83,440	2,647
	2020	100,406	25,786	..	..	..	126,192	3,921
	2021	113,776	19,739	..	..	..	133,515	4,066
Libya	2018	757,749	..	171,000	..	..	586,749	90,579
	2019	642,470	..	216,600	..	..	425,870	64,829
	2020	302,054	..	171,000	..	..	131,054	19,696
	2021	388,098	..	122,740	..	..	265,358	39,398

Production, trade and supply of natural gas

Terajoules and megajoules per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Morocco	2018	3,069	39,927	..	..	..	42,996	1,179
	2019	3,491	37,215	..	..	..	40,705	1,105
	2020	3,473	28,194	..	..	..	31,666	850
	2021	3,886	27,745	..	..	..	31,631	840
Mozambique	2018	191,890	..	159,007	..	..	32,883	1,118
	2019	190,410	..	155,227	..	..	35,183	1,162
	2020	185,337	..	151,580	..	..	33,757	1,083
	2021	187,558	..	150,944	..	..	36,614	1,141
Niger	2018	..	..	..	..	..	..	..
	2019	1,482	..	..	..	..	1,482	63
	2020	1,586	..	..	..	..	1,586	65
	2021	*1,487	..	..	..	..	*1,487	*59
Nigeria	2018	1,736,600	..	1,038,540	..	..	698,060	3,519
	2019	1,754,840	..	1,041,200	..	..	713,640	3,510
	2020	1,765,480	..	1,048,040	..	..	717,440	3,444
	2021	1,640,395	..	865,640	..	..	774,755	3,631
Rwanda	2018	*1,900	..	..	..	..	*1,900	*152
	2019	*1,870	..	..	..	..	*1,870	*146
	2020	*1,800	..	..	..	..	*1,800	*137
	2021	*1,850	..	..	..	..	*1,850	*137
Senegal	2018	461	..	..	..	..	461	30
	2019	559	..	..	..	..	559	35
	2020	553	..	..	..	..	553	34
	2021	283	..	..	..	..	283	17
South Africa	2018	39,122	146,278	..	..	..	185,400	3,233
	2019	44,827	140,242	..	..	..	185,069	3,186
	2020	42,790	153,262	..	..	..	196,052	3,334
	2021	1,459	168,981	..	..	..	170,440	2,870
Togo	2018	..	1,141	..	..	..	1,141	142
	2019	..	2,510	..	..	..	2,510	304
	2020	..	2,855	..	..	..	2,855	338
	2021	..	5,009	..	..	..	5,009	579
Tunisia	2018	95,274	160,505	..	..	..	255,779	21,435
	2019	88,184	168,864	..	..	..	257,048	21,333
	2020	89,547	155,584	..	..	..	245,131	20,156
	2021	103,353	159,403	..	..	..	262,756	21,427
United Rep. of Tanzania	2018	63,872	..	..	..	..	63,872	1,100
	2019	68,925	..	..	..	..	68,925	1,151
	2020	61,650	..	..	..	..	61,650	999
	2021	70,117	..	..	..	..	70,117	1,103
Asia	**2018**	**51,964,593**	**19,697,906**	**14,057,550**	**..**	**261,360**	**57,343,590**	**12,493**
	2019	**54,474,828**	**20,247,845**	**14,382,816**	**..**	**-45,562**	**60,385,418**	**13,045**
	2020	**54,797,670**	**20,991,243**	**13,881,528**	**..**	**-124,330**	**62,031,715**	**13,299**
	2021	**57,314,594**	**21,833,126**	**13,866,616**	**..**	**-88,976**	**65,370,080**	**13,925**
Afghanistan	2018	5,978	..	..	..	..	5,978	163
	2019	5,022	..	..	..	..	5,022	133
	2020	3,129	..	..	..	..	3,129	80
	2021	*3,185	..	..	..	..	*3,185	*79
Armenia	2018	..	94,283	..	..	-796	95,079	33,519
	2019	..	98,638	..	..	-721	99,359	35,226
	2020	..	99,896	..	..	289	99,607	35,503
	2021	..	108,534	..	..	-319	108,852	39,002

Table 28

Production, trade and supply of natural gas

Terajoules and megajoules per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Azerbaijan	2018	750,229	70,238	387,155	..	680	432,633	42,613
	2019	957,529	0	462,197	..	4,949	490,383	47,923
	2020	1,034,594	..	540,587	..	-664	494,672	48,097
	2021	1,272,508	..	745,202	..	14,609	512,698	49,714
Bahrain	2018	577,458	..	..	..	1	577,457	388,248
	2019	676,469	..	..	..	..	676,469	452,733
	2020	673,471	..	..	..	..	673,471	455,827
	2021	659,964	..	..	..	..	659,964	451,021
Bangladesh	2018	1,070,345	..	..	..	..	1,070,345	6,539
	2019	1,077,787	130,002	..	..	..	1,207,789	7,297
	2020	989,091	227,491	..	..	..	1,216,582	7,267
	2021	1,000,858	242,025	..	..	..	1,242,882	7,339
Brunei Darussalam	2018	452,350	..	307,980	..	1,567	142,803	328,831
	2019	426,639	..	304,995	..	247	121,396	277,129
	2020	414,523	..	306,167	..	4	108,352	245,294
	2021	378,317	..	269,915	..	0	108,403	243,397
China	2018	6,965,249	4,862,017	131,111	..	..	11,696,155	8,254
	2019	7,753,473	5,197,597	140,866	..	..	12,810,204	9,009
	2020	8,501,974	5,451,039	201,582	..	..	13,751,430	9,651
	2021	9,243,057	6,530,223	215,514	..	..	15,557,766	10,911
China, Hong Kong SAR	2018	..	123,197	..	..	..	123,197	16,467
	2019	..	127,799	..	..	..	127,799	17,049
	2020	..	191,705	..	..	..	191,705	25,557
	2021	..	191,557	..	..	..	191,557	25,559
China, Macao SAR	2018	..	3,634	..	..	..	3,634	5,582
	2019	..	5,218	..	..	..	5,218	7,863
	2020	..	2,824	..	..	..	2,824	4,176
	2021	..	3,329	..	..	..	3,329	4,848
Georgia	2018	403	94,744	..	..	..	95,147	25,222
	2019	385	107,419	..	..	..	107,804	28,589
	2020	356	107,834	..	..	..	108,190	28,729
	2021	641	111,505	..	..	..	112,145	29,842
India	2018	1,282,737	1,121,464	..	..	..	2,404,201	1,756
	2019	*1,179,996	*1,401,333	..	..	..	*2,581,329	*1,866
	2020	*1,083,578	*1,363,015	..	..	..	*2,446,593	*1,752
	2021	*1,292,122	*1,269,958	..	..	..	*2,562,080	*1,820
Indonesia	2018	2,541,308	..	830,711	..	..	1,710,597	6,405
	2019	2,374,248	..	587,224	..	..	1,787,024	6,629
	2020	2,462,373	..	811,361	..	..	1,651,012	6,073
	2021	2,453,147	..	750,448	..	..	1,702,699	6,220
Iran (Islamic Rep. of)	2018	8,409,186	83,273	547,354	..	..	7,945,104	92,798
	2019	9,399,279	15,658	687,793	..	..	8,727,143	100,817
	2020	10,114,852	12,200	667,745	..	..	9,459,306	108,366
	2021	10,418,297	10,079	751,370	..	..	9,677,005	110,062
Iraq	2018	422,940	161,880	..	..	..	584,820	14,408
	2019	438,520	232,180	..	..	..	670,700	16,137
	2020	280,060	433,580	..	..	..	713,640	16,769
	2021	364,420	370,120	..	..	..	734,540	16,873
Israel	2018	335,461	27,969	4,168	..	..	359,262	42,484
	2019	336,263	28,994	7,057	..	..	358,200	41,613
	2020	586,782	25,463	161,517	..	..	450,727	51,468
	2021	733,097	7,601	271,349	..	..	469,349	52,736

Production, trade and supply of natural gas

Terajoules and megajoules per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Japan	2018	182,015	4,406,588	..	..	55,468	4,533,134	35,904
	2019	175,023	4,185,466	..	..	3,129	4,357,360	34,639
	2020	167,889	4,178,883	..	..	-17,993	4,364,766	34,850
	2021	177,329	3,910,636	..	..	-34,568	4,122,533	33,083
Jordan	2018	3,624	167,881	11,589	..	..	159,916	15,289
	2019	3,464	167,883	11,589	..	..	159,759	14,933
	2020	5,820	155,393	11,589	..	..	149,624	13,691
	2021	5,808	129,076	11,584	..	..	123,300	11,060
Kazakhstan	2018	1,567,135	387,839	1,071,740	..	17,083	866,151	46,723
	2019	1,339,839	647,078	1,050,070	..	755	936,092	49,914
	2020	1,224,568	510,912	813,220	..	-16,204	938,465	49,447
	2021	1,067,817	93,175	393,469	..	-21,759	789,281	41,116
Korea, Republic of	2018	20,338	2,309,420	..	..	110,789	2,218,968	42,939
	2019	14,008	2,241,985	..	..	-21,454	2,277,446	43,963
	2020	12,393	2,235,706	..	..	-58,504	2,306,604	44,491
	2021	12,960	2,546,399	..	..	18,134	2,541,226	49,030
Kuwait	2018	680,200	189,240	..	..	..	869,440	201,390
	2019	742,900	197,600	..	..	..	940,500	211,772
	2020	817,000	233,700	..	..	..	1,050,700	240,962
	2021	807,120	292,600	..	..	..	1,099,720	258,751
Kyrgyzstan	2018	985	12,016	..	..	..	13,001	2,089
	2019	880	11,714	..	..	..	12,594	1,992
	2020	807	12,404	..	..	..	13,211	2,056
	2021	801	14,767	..	..	..	15,568	2,385
Malaysia	2018	2,565,169	291,035	1,143,335	..	..	1,712,869	52,868
	2019	2,858,440	338,626	1,372,332	..	..	1,824,734	55,625
	2020	2,580,523	393,450	1,271,606	..	..	1,702,367	51,276
	2021	2,815,809	374,253	1,206,078	..	..	1,983,985	59,093
Myanmar	2018	645,644	..	480,667	..	..	164,977	3,133
	2019	738,693	..	576,441	..	..	162,252	3,059
	2020	661,296	..	484,477	..	..	176,819	3,310
	2021	729,693	..	545,801	..	..	183,892	3,418
Oman	2018	1,523,605	66,240	547,104	..	..	1,042,741	226,626
	2019	1,541,267	82,800	560,031	..	..	1,064,036	231,173
	2020	1,511,302	66,240	534,177	..	..	1,043,365	229,644
	2021	1,651,861	62,100	557,112	..	..	1,156,849	255,913
Other Asia	2018	8,170	1,043,480	..	..	14,257	1,037,393	43,724
	2019	6,915	1,026,855	..	..	11,890	1,021,880	42,976
	2020	4,356	1,101,620	..	..	2,312	1,103,664	46,331
	2021	4,557	1,208,352	..	..	12,166	1,200,744	50,325
Pakistan	2018	1,250,705	376,544	..	..	..	1,627,249	7,406
	2019	1,231,511	380,214	..	..	..	1,611,725	7,218
	2020	991,762	442,516	..	..	..	1,434,278	6,313
	2021	1,151,083	279,223	..	..	..	1,430,306	6,181
Philippines	2018	170,850	..	..	..	..	170,850	1,574
	2019	172,032	..	..	..	..	172,032	1,559
	2020	156,009	..	..	..	..	156,009	1,391
	2021	133,795	..	..	..	..	133,795	1,175
Qatar	2018	6,855,840	..	5,084,334	..	..	1,771,506	640,288
	2019	6,939,054	..	5,161,752	..	..	1,777,302	633,115
	2020	6,903,036	..	5,138,154	..	..	1,764,882	639,361
	2021	6,965,136	..	5,126,148	..	..	1,838,988	684,088

Table 28

Production, trade and supply of natural gas

Terajoules and megajoules per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Saudi Arabia	2018	4,696,724	..	..	..	..	4,696,724	134,123
	2019	4,741,052	..	..	..	..	4,741,052	132,330
	2020	4,776,170	..	..	..	..	4,776,170	132,682
	2021	4,916,646	..	..	..	..	4,916,646	136,762
Singapore	2018	..	416,980	..	..	-1,438	418,418	71,961
	2019	..	424,860	..	..	218	424,642	72,385
	2020	..	427,414	..	..	-1,837	429,251	72,633
	2021	..	444,830	..	..	6,716	438,114	73,743
Syrian Arab Republic	2018	138,736	..	..	..	..	138,736	7,176
	2019	133,081	..	..	..	..	133,081	6,622
	2020	116,870	..	..	..	..	116,870	5,626
	2021	124,410	..	..	..	..	124,410	5,834
Tajikistan	2018	24	2,184	..	..	..	2,208	242
	2019	28	5,600	..	..	..	5,628	603
	2020	28	*9,000	..	..	..	*9,028	*946
	2021	28	9,410	..	..	..	9,438	968
Thailand	2018	1,063,777	588,243	..	..	..	1,652,020	23,226
	2019	1,122,001	582,542	..	..	..	1,704,544	23,904
	2020	1,193,772	581,639	..	..	..	1,775,411	24,839
	2021	1,156,524	613,269	..	..	..	1,769,793	24,717
Timor-Leste	2018	209,443	..	209,443	..	..	0	0
	2019	183,311	..	183,311	..	..	0	0
	2020	188,725	..	188,725	..	..	0	0
	2021	198,488	..	198,488	..	..	0	0
Türkiye	2018	16,343	1,925,967	25,789	..	8,384	1,908,137	23,043
	2019	18,129	1,731,656	29,216	..	-2,750	1,723,319	20,643
	2020	16,902	1,843,399	22,121	..	-9,325	1,847,506	21,959
	2021	15,108	2,248,584	14,665	..	-35,923	2,284,950	26,953
Turkmenistan	2018	3,199,347	..	2,416,246	..	..	783,101	129,117
	2019	3,284,976	..	2,466,286	..	..	818,690	132,938
	2020	3,133,420	..	2,282,688	..	..	850,733	136,108
	2021	3,174,075	..	2,323,342	..	..	850,733	134,146
United Arab Emirates	2018	1,871,750	871,551	353,193	..	..	2,390,108	261,495
	2019	2,149,940	878,129	365,783	..	..	2,662,286	289,013
	2020	2,148,616	883,920	342,049	..	..	2,690,487	289,696
	2021	2,051,782	761,520	279,955	..	..	2,533,347	270,508
Uzbekistan	2018	2,099,327	0	505,630	..	55,365	1,538,332	47,407
	2019	2,064,317	..	415,873	..	-41,825	1,690,269	51,256
	2020	1,692,208	..	103,763	..	-22,407	1,610,852	48,047
	2021	2,032,682	..	206,176	..	-48,032	1,874,538	55,002
Viet Nam	2018	377,189	..	..	..	..	377,189	3,974
	2019	384,348	..	..	..	..	384,348	4,013
	2020	344,201	..	..	..	..	344,201	3,561
	2021	293,453	..	..	..	..	293,453	3,011
Yemen	2018	4,009	..	..	..	..	4,009	130
	2019	4,009	..	..	..	..	4,009	127
	2020	5,212	..	..	..	..	5,212	161
	2021	8,018	..	..	..	..	8,018	243
Europe	**2018**	**37,932,381**	**17,536,132**	**14,724,106**	**4,471**	**-433,274**	**41,173,211**	**55,072**
	2019	**38,894,166**	**19,194,988**	**16,270,425**	**9,716**	**1,304,742**	**40,504,271**	**54,115**
	2020	**36,483,907**	**17,319,987**	**15,096,663**	**11,738**	**-710,957**	**39,406,449**	**52,644**
	2021	**38,924,328**	**18,104,897**	**15,254,427**	**15,661**	**-865,065**	**42,624,202**	**57,021**

Production, trade and supply of natural gas

Terajoules and megajoules per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Albania	2018	3,076	..	..	..	..	3,076	1,069
	2019	2,682	..	..	..	..	2,682	933
	2020	2,061	..	..	..	..	2,061	719
	2021	2,059	..	..	..	..	2,059	721
Andorra	2018	..	79	..	..	..	79	1,053
	2019	..	100	..	..	..	100	1,310
	2020	..	101	..	..	..	101	1,300
	2021	..	143	..	..	..	143	1,809
Austria	2018	39,964	301,956	..	..	-587	342,507	38,743
	2019	36,367	438,713	..	..	117,417	357,663	40,278
	2020	29,926	249,840	..	..	-61,205	340,971	38,278
	2021	26,989	183,498	..	..	-149,688	360,175	40,369
Belarus	2018	5,948	785,185	..	..	-3,553	794,686	81,964
	2019	5,952	753,709	..	..	221	759,440	78,503
	2020	5,865	696,631	..	..	816	701,680	72,836
	2021	6,125	711,035	..	..	..	717,160	74,874
Belgium	2018	2	755,523	53,180	402	3,850	698,093	60,976
	2019	149	894,124	174,114	423	12,850	706,887	61,412
	2020	266	832,259	134,703	131	-5,899	703,590	60,855
	2021	497	823,299	117,538	271	-565	706,552	60,850
Bosnia and Herzegovina	2018	..	9,261	..	..	1	9,260	2,723
	2019	..	8,745	..	..	..	8,745	2,602
	2020	..	7,977	..	..	..	7,977	2,404
	2021	..	9,615	..	..	2	9,613	2,939
Bulgaria	2018	1,328	120,455	482	..	-217	121,517	17,073
	2019	1,506	114,341	296	..	1,958	113,593	16,107
	2020	2,224	113,217	401	..	-1,965	117,005	16,765
	2021	1,228	127,190	..	..	-3,743	132,161	19,193
Croatia	2018	47,345	61,167	4,361	..	-2,483	106,633	25,630
	2019	39,601	77,109	2,783	..	2,001	111,926	27,102
	2020	32,800	82,818	2,028	..	-3,883	117,472	28,674
	2021	29,007	89,079	4,908	..	171	113,007	27,833
Czechia	2018	8,355	307,194	..	..	-1,676	317,225	30,113
	2019	8,026	365,476	..	..	40,504	332,999	31,603
	2020	7,593	291,223	..	..	-39,695	338,512	32,144
	2021	7,807	334,153	..	..	-20,783	362,744	34,512
Denmark	2018	180,146	16,184	64,077	..	-7	132,261	22,935
	2019	139,274	46,506	54,936	..	2,510	128,335	22,142
	2020	71,434	103,034	66,268	..	-6,092	114,292	19,619
	2021	80,686	96,489	71,521	..	-6,148	111,801	19,097
Estonia	2018	..	19,241	..	..	..	19,241	14,553
	2019	..	18,642	..	947	..	17,695	13,334
	2020	..	17,202	..	1,006	..	16,196	12,183
	2021	..	19,454	..	1,107	..	18,347	13,808
Finland	2018	407	101,361	..	58	256	101,454	18,394
	2019	382	99,553	..	20	557	99,358	17,995
	2020	394	98,580	..	67	288	98,619	17,835
	2021	543	98,689	..	61	-371	99,542	17,981
France	2018	2,930	1,944,155	149,818	..	81,161	1,716,105	25,772
	2019	5,110	2,203,852	379,379	..	78,659	1,750,924	26,238
	2020	8,674	1,875,672	338,073	..	-84,990	1,631,263	24,406
	2021	16,548	1,878,358	223,335	..	-65,702	1,737,274	25,963

Table 28

Production, trade and supply of natural gas

Terajoules and megajoules per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Germany	2018	219,329	3,281,120	..	..	78,810	3,421,640	41,276
	2019	203,460	3,520,265	..	..	205,863	3,517,861	42,308
	2020	187,515	3,092,273	..	..	-190,602	3,470,390	41,647
	2021	217,078	3,256,079	..	..	-197,379	3,670,537	44,007
Gibraltar	2018	..	..	..	..	..	..	..
	2019	..	2,691	..	653	1,306	732	22,407
	2020	..	2,379	..	637	-403	2,145	65,583
	2021	..	3,083	..	696	57	2,331	71,340
Greece	2018	589	192,807	..	..	1,863	191,534	18,013
	2019	445	207,358	634	..	-1,672	208,840	19,750
	2020	311	232,185	1,320	..	1,902	229,274	21,810
	2021	189	252,594	622	..	-1,310	253,471	24,266
Hungary	2018	68,457	300,002	..	..	-16,643	385,102	39,391
	2019	62,010	453,637	..	..	121,663	393,984	40,318
	2020	61,645	308,326	..	..	-37,970	407,941	41,838
	2021	55,028	290,618	..	..	-86,979	432,625	44,556
Ireland	2018	127,802	80,961	..	..	..	208,763	43,182
	2019	99,718	112,418	..	..	..	212,136	43,328
	2020	76,828	135,059	..	..	..	211,887	42,839
	2021	58,773	144,856	..	..	..	203,629	40,836
Isle of Man	2018	..	4,642	..	..	..	4,642	55,410
	2019	..	5,454	..	..	..	5,454	64,980
	2020	..	5,285	..	..	..	5,285	62,886
	2021	..	3,630	..	..	..	3,630	43,079
Italy	2018	208,644	2,585,940	14,878	..	10,067	2,769,640	46,228
	2019	184,780	2,707,586	12,399	..	42,713	2,837,254	47,475
	2020	156,739	2,529,567	12,023	..	-40,991	2,715,274	45,608
	2021	127,669	2,781,130	58,807	..	-60,624	2,910,615	49,104
Latvia	2018	..	53,750	..	..	-634	54,384	28,096
	2019	..	51,343	..	..	17	51,327	26,781
	2020	..	42,387	..	..	42	42,345	22,322
	2021	..	44,843	..	..	-15	44,858	23,938
Liechtenstein	2018	..	986	..	..	..	986	25,811
	2019	..	998	..	..	..	998	25,939
	2020	..	962	..	..	..	962	24,827
	2021	..	1,073	..	..	..	1,073	27,490
Lithuania	2018	..	88,715	7,001	..	-892	82,606	28,721
	2019	..	106,877	20,175	..	-30	86,732	30,442
	2020	..	110,833	20,089	..	-982	91,726	32,524
	2021	..	93,171	5,168	..	719	87,284	31,322
Luxembourg	2018	241	31,803	..	..	..	32,044	52,711
	2019	153	31,822	..	..	..	31,976	51,576
	2020	233	28,901	..	..	..	29,135	46,216
	2021	198	31,159	..	..	..	31,357	49,048
Malta	2018	..	14,919	..	..	1,292	13,627	27,720
	2019	..	14,761	..	..	516	14,245	28,284
	2020	..	14,237	..	..	-568	14,805	28,727
	2021	..	15,362	..	..	517	14,845	28,183
Netherlands (Kingd. of the)	2018	1,304,311	1,041,945	828,106	606	82,756	1,434,788	83,003
	2019	1,115,827	1,198,118	805,904	2,766	7,861	1,497,414	86,240
	2020	811,777	1,216,575	555,662	5,287	-3,842	1,471,245	84,387
	2021	731,023	1,035,962	562,698	5,520	-212,738	1,411,504	80,650

Production, trade and supply of natural gas

Terajoules and megajoules per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
North Macedonia	2018	..	8,748	..	..	5	8,743	4,137
	2019	..	10,216	..	..	-3	10,220	4,834
	2020	..	11,697	..	..	-1	11,698	5,541
	2021	..	14,848	..	..	-4	14,852	7,061
Norway	2018	4,966,982	361	4,710,681	2,326	-2,021	256,357	48,257
	2019	4,692,661	1,057	4,462,085	2,446	-2,540	231,727	43,327
	2020	4,560,755	1,326	4,348,404	2,691	-352	211,337	39,283
	2021	4,689,683	6,295	4,454,252	2,689	5,753	233,284	43,177
Poland	2018	161,378	608,367	26,278	..	-6,627	750,093	19,472
	2019	159,408	672,988	51,161	..	26,313	754,922	19,612
	2020	158,002	673,201	53,833	..	-18,445	795,815	20,709
	2021	155,371	713,103	4,389	..	15,994	848,091	22,139
Portugal	2018	..	236,115	..	..	2,469	233,646	22,706
	2019	..	245,615	..	..	-171	245,786	23,886
	2020	..	239,448	..	..	-1,733	241,180	23,420
	2021	..	230,624	..	..	103	230,521	22,402
Republic of Moldova	2018	4	38,250	..	..	97	38,157	12,145
	2019	3	35,201	..	..	-52	35,256	11,338
	2020	0	35,764	..	..	-106	35,870	11,628
	2021	2	41,145	..	..	70	41,077	13,417
Romania	2018	394,323	56,210	1,143	..	-8,504	457,894	23,354
	2019	381,054	99,373	487	..	53,251	426,689	21,854
	2020	340,414	79,480	5,310	..	-31,413	445,997	22,940
	2021	341,973	132,122	27,683	..	-11,718	458,131	23,702
Russian Federation	2018	27,755,267	358,750	8,433,194	..	-706,326	20,387,149	139,971
	2019	29,376,729	348,390	9,934,021	..	344,146	19,446,951	133,434
	2020	27,603,132	343,522	9,128,691	..	-194,550	19,012,514	130,565
	2021	30,344,123	311,850	9,268,360	..	113,757	21,273,856	146,612
Serbia	2018	16,653	81,431	..	..	-1,091	99,175	13,341
	2019	16,247	83,812	..	..	7,333	92,726	12,529
	2020	15,133	73,709	..	..	-3,707	92,550	12,578
	2021	13,414	87,606	..	..	-10,373	111,393	15,266
Slovakia	2018	3,609	169,857	..	..	-16,199	189,665	34,822
	2019	4,795	259,722	..	..	74,428	190,089	34,854
	2020	2,544	167,459	..	..	-20,180	190,183	34,853
	2021	2,271	198,621	52,453	..	-63,276	211,715	38,864
Slovenia	2018	634	33,515	436	..	..	33,714	16,009
	2019	273	34,027	79	..	..	34,220	16,196
	2020	213	34,004	..	..	..	34,217	16,158
	2021	202	35,859	..	..	..	36,061	17,015
Spain	2018	3,850	1,409,177	131,408	84	21,391	1,260,144	26,931
	2019	5,767	1,506,011	45,514	1,657	26,925	1,437,682	30,504
	2020	2,320	1,314,814	47,433	992	-30,863	1,299,572	27,438
	2021	1,944	1,496,250	122,261	4,504	2,601	1,368,828	28,825
Sweden	2018	..	48,205	661	995	..	46,549	4,581
	2019	..	45,695	1,039	804	..	43,851	4,271
	2020	1,408	60,378	1,162	928	..	59,696	5,757
	2021	1,461	49,904	2,263	812	..	48,289	4,613
Switzerland	2018	1,300	132,791	..	..	..	134,091	15,749
	2019	1,443	136,238	..	..	..	137,681	16,055
	2020	1,476	132,590	..	..	..	134,066	15,519
	2021	1,481	144,167	..	..	..	145,649	16,758

Table 28

Production, trade and supply of natural gas

Terajoules and megajoules per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Ukraine	2018	766,963	393,516	..	..	-32,894	1,193,373	26,849
	2019	759,092	442,225	..	..	113,552	1,087,764	24,604
	2020	737,611	343,593	..	..	28,014	1,053,190	23,985
	2021	677,297	298,949	5,713	..	-109,249	1,079,782	24,805
United Kingdom	2018	1,642,544	1,861,490	298,401	..	83,062	3,122,571	47,003
	2019	1,591,252	1,840,221	325,420	..	26,647	3,079,406	46,114
	2020	1,604,614	1,721,478	381,263	..	38,418	2,906,411	43,341
	2021	1,333,657	2,018,992	272,455	..	-4,142	3,084,336	45,843
Latin America & Carib.	**2018**	**7,979,304**	**3,073,669**	**1,452,316**	**1,201**	**-13,326**	**9,612,783**	**15,015**
	2019	**7,878,686**	**2,881,882**	**1,381,975**	**1,596**	**-9,640**	**9,386,638**	**14,536**
	2020	**7,289,813**	**2,770,721**	**1,262,419**	**3,040**	**-7,987**	**8,803,062**	**13,528**
	2021	**7,396,607**	**3,326,001**	**1,063,567**	**2,235**	**-23,776**	**9,680,583**	**14,780**
Argentina	2018	1,644,456	324,728	14,845	..	318	1,954,021	43,996
	2019	1,725,250	226,780	9,194	..	-716	1,943,553	43,436
	2020	1,577,341	240,423	6,111	..	760	1,810,893	40,210
	2021	1,583,066	345,519	36,617	..	0	1,891,968	41,787
Barbados	2018	1,002	..	..	..	..	1,002	3,583
	2019	892	..	..	..	..	892	3,183
	2020	386	223	..	..	..	609	2,169
	2021	285	260	..	..	..	544	1,936
Belize	2018	51	..	..	..	11	40	105
	2019	41	..	..	..	15	26	66
	2020	32	..	..	..	12	20	52
	2021	29	..	..	..	12	17	42
Bolivia (Plur. State of)	2018	724,259	..	547,362	..	..	176,897	15,241
	2019	631,583	..	466,515	..	..	165,069	14,016
	2020	608,826	..	474,460	..	..	134,366	11,257
	2021	626,657	..	473,833	..	..	152,824	12,652
Brazil	2018	940,384	410,360	..	..	..	1,350,744	6,427
	2019	962,178	379,714	..	..	..	1,341,892	6,336
	2020	860,787	372,221	..	..	..	1,233,008	5,783
	2021	1,010,761	690,032	..	..	-8,188	1,708,981	7,974
Chile	2018	48,866	160,701	6,270	..	377	202,920	10,850
	2019	59,692	187,447	..	..	2,155	244,984	12,867
	2020	45,717	176,962	..	..	-1,796	224,476	11,631
	2021	46,615	197,959	..	..	-1,051	245,626	12,601
Colombia	2018	477,797	506	..	..	..	478,303	9,706
	2019	486,362	6,072	..	..	..	492,434	9,812
	2020	473,372	13,531	..	..	..	486,903	9,560
	2021	440,611	1,734	..	..	..	442,345	8,586
Cuba	2018	37,854	..	..	..	..	37,854	3,342
	2019	37,113	..	..	..	..	37,113	3,279
	2020	34,916	..	..	..	..	34,916	3,090
	2021	33,695	..	..	..	..	33,695	2,993
Curaçao	2018	..	*2,100	..	..	..	*2,100	*11,368
	2019	..	0	..	..	..	0	0
	2020	..	..	..	..	..	..	..
	2021	..	..	..	..	..	..	..
Dominican Republic	2018	..	45,029	..	1,201	-581	44,409	4,125
	2019	..	52,335	..	1,596	523	50,217	4,615
	2020	..	53,237	..	3,040	559	49,638	4,513
	2021	..	75,655	..	*2,235	-9	73,430	6,605

Production, trade and supply of natural gas

Terajoules and megajoules per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Ecuador	2018	27,591	..	..	..	..	27,591	1,622
	2019	24,637	..	..	..	..	24,637	1,421
	2020	20,929	..	..	..	..	20,929	1,190
	2021	22,075	..	..	..	..	22,075	1,240
El Salvador	2018	..	..	..	..	..	..	..
	2019	..	..	..	..	..	..	..
	2020	..	..	..	..	..	..	..
	2021	..	88	..	..	..	88	14
Guyana	2018	..	2	..	..	..	2	2
	2019	..	13	..	..	-1	14	18
	2020	..	49	..	..	5	45	56
	2021	..	125	..	..	-16	141	175
Jamaica	2018	..	3,789	..	..	..	3,789	1,348
	2019	..	9,918	..	..	-1,516	11,434	4,063
	2020	..	28,299	..	..	167	28,132	9,974
	2021	..	29,121	..	..	107	29,014	10,261
Mexico	2018	1,314,583	2,046,929	484	..	-13,452	3,374,480	27,211
	2019	1,285,121	1,908,243	436	..	-10,100	3,203,028	25,607
	2020	1,465,063	1,810,399	379	..	-7,693	3,282,776	26,054
	2021	1,483,669	1,882,815	315	..	-14,633	3,380,802	26,682
Panama	2018	..	10,878	..	..	..	10,878	2,612
	2019	..	33,835	..	..	..	33,835	7,994
	2020	..	18,243	..	..	..	18,243	4,248
	2021	..	21,785	..	..	..	21,785	5,007
Peru	2018	514,329	..	210,406	..	..	303,923	9,437
	2019	542,941	..	224,255	..	..	318,686	9,709
	2020	487,281	..	219,514	..	..	267,767	8,040
	2021	541,875	..	192,051	..	..	349,824	10,376
Puerto Rico	2018	..	66,336	..	..	..	66,336	19,985
	2019	..	74,140	..	..	..	74,140	22,515
	2020	..	54,629	..	..	..	54,629	16,698
	2021	..	78,042	..	..	..	78,042	23,968
Suriname	2018	195	..	..	..	..	195	329
	2019	232	..	..	..	..	232	387
	2020	269	..	..	..	..	269	443
	2021	248	..	..	..	..	248	404
Trinidad and Tobago	2018	1,400,178	..	672,949	..	..	727,229	483,302
	2019	1,421,840	..	681,576	..	..	740,265	487,031
	2020	1,192,151	..	561,955	..	..	630,196	415,109
	2021	1,025,640	..	360,752	..	..	664,888	435,803
Uruguay	2018	..	2,311	..	..	..	2,311	674
	2019	..	3,384	..	..	..	3,384	987
	2020	..	2,505	..	..	..	2,505	730
	2021	..	2,866	..	..	..	2,866	836
Venezuela (Bolivar. Rep.)	2018	847,757	..	..	..	..	847,757	28,424
	2019	700,803	..	..	..	..	700,803	24,189
	2020	522,742	..	..	..	..	522,742	18,348
	2021	581,381	..	..	..	..	581,381	20,616
Northern America	**2018**	**40,504,944**	**4,015,685**	**7,071,566**	**..**	**-326,581**	**37,775,644**	**102,290**
	2019	**44,650,845**	**3,967,682**	**8,091,355**	**..**	**472,853**	**40,054,319**	**107,682**
	2020	**43,912,403**	**3,673,878**	**8,567,187**	**..**	**292,038**	**38,727,056**	**103,560**
	2021	**45,328,249**	**4,082,437**	**10,544,375**	**..**	**-253,929**	**39,120,240**	**104,243**

Table 28

Production, trade and supply of natural gas

Terajoules and megajoules per capita

Country or area	Year	Production	Imports	Exports	Bunkers	Changes in stocks	Supply	
							Total	Per capita
Canada	2018	7,677,882	910,408	3,128,354	..	27,889	5,432,047	146,672
	2019	7,385,473	1,017,915	2,991,778	..	-58,473	5,470,083	145,781
	2020	7,208,996	928,662	2,786,185	..	128,285	5,223,188	137,856
	2021	7,491,900	950,868	3,125,074	..	-110,599	5,428,293	142,269
United States	2018	32,827,062	3,105,277	3,943,212	..	-354,470	32,343,597	97,379
	2019	37,265,372	2,949,767	5,099,577	..	531,326	34,584,236	103,447
	2020	36,703,407	2,745,216	5,781,002	..	163,753	33,503,868	99,731
	2021	37,836,349	3,131,569	7,419,301	..	-143,330	33,691,947	99,977
Oceania	**2018**	**5,326,395**	**186,515**	**3,808,979**	**..**	**-7,290**	**1,711,221**	**40,228**
	2019	**6,189,128**	**201,980**	**4,590,118**	**..**	**13,504**	**1,787,487**	**41,304**
	2020	**6,628,670**	**179,742**	**4,825,542**	**..**	**33,220**	**1,949,650**	**44,379**
	2021	**6,396,535**	**207,573**	**4,728,090**	**..**	**-17,416**	**1,893,434**	**42,559**
Australia	2018	4,707,645	186,515	3,379,971	..	-460	1,514,649	60,636
	2019	5,488,747	201,980	4,095,657	..	14,173	1,580,897	62,345
	2020	5,921,342	179,742	4,338,571	..	32,644	1,729,869	67,389
	2021	5,711,322	207,573	4,240,632	..	-21,511	1,699,774	65,575
New Zealand	2018	172,251	..	..	..	-6,830	179,081	37,011
	2019	185,498	..	..	..	-669	186,167	37,541
	2020	181,094	..	..	..	576	180,518	35,668
	2021	158,453	..	..	..	4,094	154,359	30,091
Papua New Guinea	2018	446,499	..	429,007	..	..	17,492	1,875
	2019	514,883	..	494,461	..	..	20,422	2,140
	2020	526,234	..	486,971	..	..	39,263	4,027
	2021	*526,760	..	*487,458	..	..	*39,302	*3,950

Table 29

International trade of natural gas
(Principal importers/exporters)

Terajoules

2020

Importers	Exporters							
	World	Algeria	Australia	Canada	Indonesia	Iran (Islamic Rep. of)	Kazakhstan	Malaysia
Argentina	240,423	2,014	..	..	..	..	..	..
Austria	249,840	..	..	..	..	..	..	..
Belarus	696,631	..	..	..	..	..	..	..
Belgium	832,259	..	..	..	..	..	..	..
Brazil	372,221	..	..	..	..	..	..	..
Canada	928,662	..	..	..	..	..	..	..
China	5,451,039	3,067	1,611,745	222	276,414	..	150,989	331,803
Czechia	291,223	..	..	..	..	..	..	..
France	1,875,672	151,297	..	..	..	..	..	..
Germany	3,092,273	..	..	..	..	..	..	..
Hungary	308,326	..	..	..	..	..	..	..
India	1,363,015	10,351	45,488	..	..	..	..	..
Italy	2,529,567	575,992	..	..	..	..	..	..
Japan	4,178,883	..	1,556,579	..	117,074	..	..	572,933
Kazakhstan	510,912	..	..	..	..	..	..	..
Korea, Republic of	2,235,706	..	434,095	..	151,711	..	..	268,093
Malaysia	393,450	..	115,248	..	*16,462	..	..	..
Mexico	1,810,399	..	425	9,476	1,624	..	..	..
Netherlands (Kingd. of the)	1,216,575	..	..	..	..	..	..	..
Poland	673,201	..	..	..	..	..	..	..
Portugal	239,448	22,250	..	..	..	..	..	..
Russian Federation	343,522	..	..	..	..	..	343,522	..
Singapore	427,414	..	122,654	..	236,043	..	..	..
Slovakia	167,459	..	..	..	..	..	..	..
Spain	1,314,814	382,340	..	..	..	..	..	..
Thailand	581,639	..	42,849	..	10,602	..	..	49,298
Türkiye	1,843,399	213,474	..	..	..	203,817	..	..
Ukraine	343,593	..	..	..	..	..	..	..
United Arab Emirates	883,920	..	4,143	..	..	..	..	..
United Kingdom	1,721,478	1,755	..	..	..	..	..	..
United States	2,745,216	..	..	2,688,367	..	..	..	..

International trade of natural gas
(Principal importers/exporters)

Terajoules

2020

Exporters							
Netherlands (Kingd. of the)	Nigeria	Norway	Qatar	Russian Federation	Trinidad and Tobago	Turkmenistan	United States
..	..	..	32,985	4,097	12,925	..	18,854
..	..	..	..	..	..	..	..
..	..	..	..	696,631	..	..	..
110,997	..	428,122	98,598	115,208	..	..	22,966
..	1,577	..	..	..	13,540	..	122,443
..	..	..	..	..	34,225	..	894,437
..	131,042	..	438,562	349,286	9,694	960,087	234,584
..	..	..	..	291,223	..	..	..
109,601	142,881	672,210	28,990	318,819	..	..	46,930
258,768	..	642,701	..	2,045,449	..	..	..
..	..	..	..	292,910	..	..	..
..	151,235	..	566,078	33,759	25,800	..	136,113
34,829	6,888	281,841	264,570	1,094,083	6,282	..	66,838
..	81,367	..	499,066	349,737	..	..	337,569
..	..	..	..	473,976	..	4,565	..
..	18,312	..	514,479	108,129	3,691	..	329,300
..	3,029	..	..	..	..	..	..
..	967	..	..	..	3,055	..	1,793,653
..	12,152	354,933	8,171	505,620	10,505	..	86,875
27	3,095	13,397	90,041	368,989	3,016	..	38,872
..	125,877	3,263	5,504	27,090	3,267	..	45,077
..	..	..	..	..	..	..	..
..	..	..	20,994	2,640	3,036	..	31,009
..	..	..	..	143,086	..	..	..
..	159,104	65,918	116,093	137,090	86,691	..	205,621
..	9,669	..	109,805	..	6,247	..	35,693
..	72,050	3,281	124,415	619,688	24,280	..	114,026
..	..	..	..	..	..	..	..
..	10,440	..	704,916	10,554	6,525	..	11,062
39,861	13,276	958,160	348,854	88,685	40,284	..	192,381
..	8,088	3,455	..	..	43,506	..	..

Table 29

International trade of natural gas
(Principal importers/exporters)

Terajoules

2021

Importers	Exporters							
	World	Algeria	Australia	Canada	Indonesia	Iran (Islamic Rep. of)	Kazakhstan	Malaysia
Argentina	345,519	..	..	..	..	..	..	..
Austria	183,498	..	..	..	..	..	..	..
Belarus	711,035	..	..	..	..	..	..	..
Belgium	823,299	3,332	..	..	..	..	..	..
Brazil	690,032	..	..	..	..	..	..	..
Canada	950,868	..	..	..	..	..	..	..
China	6,530,223	12,378	1,666,419	54	246,183	..	*91,312	*366,320
Czechia	334,153	..	..	..	..	..	..	..
France	1,878,358	158,576	..	..	..	..	..	..
Germany	3,256,079	..	..	..	..	..	..	..
Hungary	290,618	..	..	..	..	..	..	..
India	1,269,958	8,778	34,942	..	..	..	..	..
Italy	2,781,130	855,717	..	..	..	..	..	..
Japan	3,910,636	1,935	1,496,271	..	118,771	..	..	535,614
Kazakhstan	93,175	..	..	..	..	..	..	..
Korea, Republic of	2,546,399	..	528,156	..	128,356	..	..	214,409
Malaysia	374,253	..	79,132	..	16,133	..	..	..
Mexico	1,882,815	..	..	..	..	..	..	..
Netherlands (Kingd. of the)	1,035,962	2,779	..	..	..	..	..	..
Poland	713,103	..	..	..	..	..	..	..
Portugal	230,624	3,025	..	..	..	..	..	..
Russian Federation	311,850	..	..	..	..	..	*302,157	..
Singapore	444,830	..	116,422	..	237,671	..	..	32,851
Slovakia	198,621	..	..	..	..	..	..	..
Spain	1,496,250	640,765	..	..	..	..	..	..
Thailand	613,269	..	23,173	..	..	..	..	56,883
Türkiye	2,248,584	229,326	..	..	..	361,342	..	..
Ukraine	298,949	..	..	..	..	..	..	..
United Arab Emirates	761,520	..	..	..	..	..	..	..
United Kingdom	2,018,992	29,502	..	..	..	..	..	..
United States	3,131,569	..	..	3,105,762	..	..	..	..

International trade of natural gas
(Principal importers/exporters)

Terajoules

2021

Exporters							
Netherlands (Kingd. of the)	Nigeria	Norway	Qatar	Russian Federation	Trinidad and Tobago	Turkmenistan	United States
..	..	..	52,272	..	2,087	..	93,066
..	..	..	..	..	..	..	..
..	..	..	..	711,035	..	..	..
117,823	..	471,205	100,749	97,677	..	..	5,862
..	..	..	..	..	14,410	..	343,177
..	..	..	..	..	22,908	..	925,036
..	79,805	..	496,847	430,815	22,955	1,167,409	505,546
..	..	..	..	334,153	..	..	..
133,849	124,194	606,388	20,187	414,384	..	..	110,678
..	..	630,028	..	2,161,623	..	..	..
..	..	..	..	276,087	..	..	..
..	128,252	..	480,051	28,628	21,879	..	218,831
10,958	10,120	75,521	261,531	1,111,404	..	..	42,670
..	29,580	..	386,270	372,068	5,919	..	306,768
..	..	..	..	93,175	..	..	..
6,601	39,137	..	638,260	130,829	2,982	..	473,078
..	3,682	..	..	..	..	..	..
..	..	..	..	..	..	..	1,882,815
..	9,829	350,450	4,444	357,763	3,288	..	124,843
207	..	..	93,314	402,694	..	..	62,240
..	118,257	..	..	31,415	..	..	75,799
..	..	..	..	..	..	..	..
..	3,705	..	8,299	2,640	..	..	23,329
..	..	..	..	136,879	..	..	..
..	171,685	42,342	94,209	130,308	44,173	..	218,325
..	38,675	..	130,535	..	11,567	..	16,224
..	54,791	..	11,461	1,009,017	7,455	..	181,543
..	..	..	..	..	..	..	..
..	10,625	..	704,683	10,741	6,641	..	..
93,325	3,179	1,277,971	223,055	121,531	6,013	..	152,254
..	..	..	..	..	23,891	..	..

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 74: Production of manufactured and recovered gases by region, 1990-2021

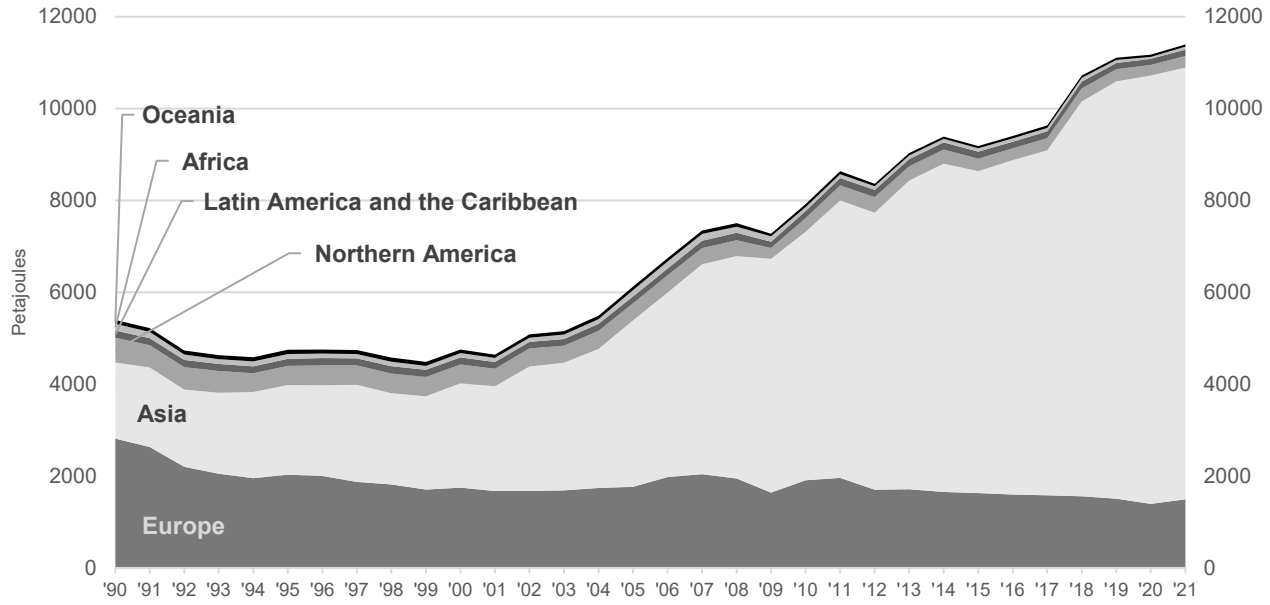


Figure 75: World production of manufactured and recovered gases by type, 2021

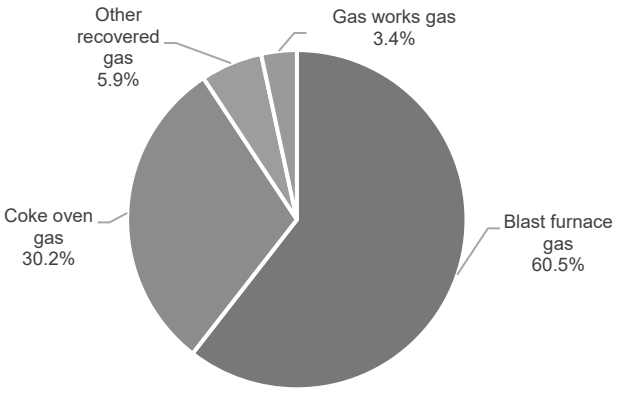


Table 30

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	**2018**	**10,718,934**	**703,512**	**3,237,055**	**6,604,822**	**173,546**
	2019	**11,107,962**	**446,909**	**3,298,185**	**6,733,807**	**629,060**
	2020	**11,173,600**	**376,869**	**3,327,016**	**6,808,927**	**660,788**
	2021	**11,396,244**	**384,583**	**3,440,839**	**6,898,225**	**672,596**
Africa	**2018**	**80,680**	**22,812**	**25,355**	**32,513**	**..**
	2019	**67,641**	**20,600**	**21,110**	**25,930**	**..**
	2020	**42,949**	**13,748**	**12,484**	**16,717**	**..**
	2021	**60,450**	**17,711**	**20,147**	**22,592**	**..**
Algeria	2018	5,844	..	..	5,844	..
	2019	5,108	..	..	5,108	..
	2020	2,564	..	..	2,564	..
	2021	4,624	..	..	4,624	..
Egypt	2018	4,764	88	..	4,676	..
	2019	2,825	128	..	2,697	..
	2020	4,152	15	..	4,137	..
	2021	4,137	..	..	4,137	..
South Africa	2018	69,208	22,724	24,491	21,993	..
	2019	58,780	20,472	20,183	18,125	..
	2020	34,933	13,733	11,184	10,016	..
	2021	46,987	17,711	15,445	13,832	..
Zimbabwe	2018	864	..	864	..	..
	2019	927	..	927	..	..
	2020	1,300	..	1,300	..	..
	2021	4,702	..	4,702	..	..
Asia	**2018**	**8,596,474**	**599,543**	**2,362,199**	**5,532,895**	**101,837**
	2019	**9,081,146**	**354,562**	**2,455,828**	**5,712,691**	**558,065**
	2020	**9,325,896**	**293,726**	**2,537,174**	**5,900,095**	**594,900**
	2021	**9,398,435**	**307,425**	**2,584,378**	**5,899,968**	**606,664**
China	2018	6,443,917	568,826	1,586,583	4,288,508	..
	2019	6,913,797	324,677	1,680,918	4,452,352	455,851
	2020	7,354,793	264,677	1,816,220	4,765,796	508,100
	2021	7,248,195	278,668	1,826,211	4,635,216	*508,100
China, Hong Kong SAR	2018	29,550	29,550	..	..	..
	2019	28,712	28,712	..	..	..
	2020	27,947	27,947	..	..	..
	2021	27,677	27,677	..	..	..
India	2018	*620,684	*1,167	*193,217	*426,300	..
	2019	*639,222	*1,173	203,658	*434,391	..
	2020	*587,392	*1,102	*188,003	*398,287	..
	2021	*666,318	*1,080	*216,252	*448,986	..
Iran (Islamic Rep. of)	2018	25,796	..	9,815	15,981	..
	2019	25,894	..	9,753	16,140	..
	2020	25,620	..	10,072	15,548	..
	2021	26,921	..	10,130	16,791	..
Japan	2018	779,347	..	295,366	423,160	60,820
	2019	765,977	..	294,493	412,431	59,053
	2020	646,861	..	266,508	331,130	49,224
	2021	710,978	..	274,366	381,045	55,567
Kazakhstan	2018	39,530	..	16,668	22,862	..
	2019	35,479	..	14,455	21,025	..
	2020	32,370	..	12,135	20,234	..
	2021	30,688	..	11,317	19,371	..

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
Korea, Dem.Ppl's.Rep.	2018	1,222	..	..	1,222	..
	2019	1,026	..	..	1,026	..
	2020	1,067	..	..	1,067	..
	2021	902	..	..	902	..
Korea, Republic of	2018	401,861	..	157,103	215,927	28,831
	2019	407,029	..	149,818	225,779	31,432
	2020	387,939	..	142,777	219,137	26,025
	2021	401,275	..	145,899	225,328	30,049
Malaysia	2018	1,986	..	..	1,986	..
	2019	15,799	..	..	15,799	..
	2020	17,342	..	..	17,342	..
	2021	22,093	..	..	22,093	..
Other Asia	2018	160,266	..	67,189	80,891	12,186
	2019	159,396	..	67,187	80,479	11,729
	2020	153,332	..	65,159	76,621	11,552
	2021	163,528	..	66,942	83,639	12,947
Philippines	2018	3,466	..	..	3,466	..
	2019	3,010	..	..	3,010	..
	2020	2,931	..	..	2,931	..
	2021	*3,000	..	..	*3,000	..
Syrian Arab Republic	2018	3	..	..	3	..
	2019	3	..	..	3	..
	2020	3	..	..	3	..
	2021	3	..	..	3	..
Thailand	2018	589	..	..	589	..
	2019	390	..	..	390	..
	2020	..	..	..	..	..
	2021	..	..	..	..	..
Türkiye	2018	88,258	..	36,258	52,000	..
	2019	85,411	..	35,546	49,865	..
	2020	88,300	..	36,300	52,000	..
	2021	96,855	..	33,261	63,594	..
Europe	**2018**	**1,560,035**	**17,159**	**635,124**	**836,339**	**71,412**
	2019	**1,508,565**	**15,917**	**620,018**	**801,937**	**70,692**
	2020	**1,394,637**	**11,969**	**593,665**	**723,387**	**65,617**
	2021	**1,492,997**	**2,646**	**632,398**	**792,313**	**65,640**
Austria	2018	38,954	..	10,321	25,239	3,393
	2019	41,769	..	10,428	27,616	3,725
	2020	39,647	..	10,217	25,967	3,462
	2021	44,332	..	10,250	30,007	4,075
Belgium	2018	37,292	..	10,020	23,607	3,665
	2019	37,978	..	9,906	24,319	3,754
	2020	30,070	..	8,921	18,252	2,896
	2021	35,248	..	10,347	21,796	3,106
Bosnia and Herzegovina	2018	12,246	..	7,632	4,614	..
	2019	12,060	..	6,978	5,082	..
	2020	10,020	..	6,285	3,735	..
	2021	10,762	..	6,810	3,952	..
Czechia	2018	60,382	13,932	20,673	19,796	5,982
	2019	55,016	12,670	18,950	17,571	5,824
	2020	49,358	9,358	18,243	17,847	3,910
	2021	44,913	..	20,860	20,140	3,914

Table 30

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
Estonia	2018	14,132	3,228	10,905	..	..
	2019	14,370	3,247	11,123	..	..
	2020	13,707	2,610	11,096	..	..
	2021	12,252	2,646	9,606	..	..
Finland	2018	23,649	..	8,277	11,526	3,846
	2019	20,213	..	7,719	8,413	4,081
	2020	20,136	..	7,095	9,048	3,993
	2021	23,853	..	7,584	12,183	4,086
France	2018	86,218	..	..	86,218	..
	2019	81,667	..	..	81,667	..
	2020	62,309	..	..	62,309	..
	2021	72,964	..	..	72,964	..
Germany	2018	250,530	..	64,646	160,885	24,999
	2019	241,116	..	64,151	151,471	25,494
	2020	209,468	..	62,418	125,509	21,542
	2021	223,105	..	63,963	136,376	22,766
Hungary	2018	17,669	..	9,109	8,560	..
	2019	15,242	..	8,162	7,080	..
	2020	13,787	..	7,386	6,401	..
	2021	11,174	..	7,024	4,150	..
Italy	2018	34,808	..	15,150	18,007	1,651
	2019	33,246	..	14,586	17,071	1,590
	2020	23,857	..	11,506	10,825	1,526
	2021	27,704	..	11,906	14,764	1,034
Netherlands (Kingd. of the)	2018	54,642	..	18,118	36,524	..
	2019	51,719	..	17,657	34,062	..
	2020	48,690	..	17,093	31,597	..
	2021	53,549	..	17,038	36,511	..
Norway	2018	4,197	..	..	4,197	..
	2019	3,611	..	..	3,611	..
	2020	3,064	..	..	3,064	..
	2021	3,565	..	..	3,565	..
Poland	2018	107,821	..	78,254	26,377	3,191
	2019	102,427	..	74,779	24,327	3,322
	2020	88,378	..	65,419	19,443	3,516
	2021	101,193	..	78,034	20,336	2,823
Romania	2018	10,137	..	..	10,137	..
	2019	10,354	..	..	10,354	..
	2020	9,743	..	..	9,743	..
	2021	10,757	..	..	10,757	..
Russian Federation	2018	481,163	..	261,597	219,566	..
	2019	477,585	..	260,383	217,202	..
	2020	481,713	..	261,111	220,602	..
	2021	496,967	..	268,806	228,161	..
Serbia	2018	12,281	..	..	12,281	..
	2019	12,231	..	..	12,231	..
	2020	8,310	..	..	8,310	..
	2021	8,640	..	..	8,640	..
Slovakia	2018	40,606	..	13,427	22,696	4,483
	2019	31,861	..	11,619	17,065	3,177
	2020	27,117	..	9,640	14,880	2,597
	2021	38,780	..	12,490	22,473	3,817

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
Spain	2018	30,055	..	10,510	19,545	..
	2019	26,696	..	9,424	17,272	..
	2020	18,514	..	5,513	13,001	..
	2021	29,037	..	11,085	17,952	..
Sweden	2018	21,732	..	7,692	12,149	1,891
	2019	22,895	..	8,096	13,448	1,351
	2020	22,710	..	7,926	13,159	1,625
	2021	20,771	..	6,964	12,553	1,254
Ukraine	2018	175,545	..	75,559	81,674	18,312
	2019	168,849	..	72,116	78,358	18,375
	2020	168,217	..	71,040	76,627	20,550
	2021	175,393	..	77,827	78,801	18,765
United Kingdom	2018	45,975	..	13,234	32,741	..
	2019	47,658	..	13,941	33,717	..
	2020	45,822	..	12,755	33,067	..
	2021	48,036	..	11,806	36,231	..
Latin America & Carib.	**2018**	**150,567**	**3,392**	**99,745**	**47,430**	**..**
	2019	**134,916**	**3,261**	**89,947**	**41,708**	**..**
	2020	**130,649**	**3,300**	**85,037**	**42,312**	**..**
	2021	**145,682**	**3,272**	**98,091**	**44,319**	**..**
Argentina	2018	30,601	..	4,775	25,826	..
	2019	24,922	..	3,263	21,660	..
	2020	24,070	..	3,592	20,478	..
	2021	29,117	..	4,415	24,701	..
Brazil	2018	80,329	..	80,329	..	..
	2019	73,223	..	73,223	..	..
	2020	67,308	..	67,308	..	..
	2021	78,939	..	78,939	..	..
Chile	2018	6,727	73	3,745	2,909	..
	2019	6,944	..	3,772	3,172	..
	2020	7,048	..	3,676	3,372	..
	2021	7,469	37	3,831	3,601	..
Colombia	2018	2,220	..	1,189	1,031	..
	2019	2,570	..	1,531	1,040	..
	2020	1,583	..	762	821	..
	2021	1,725	..	831	895	..
Cuba	2018	3,333	3,319	..	14	..
	2019	3,275	3,261	..	14	..
	2020	3,311	3,300	..	11	..
	2021	3,249	3,235	..	14	..
Mexico	2018	27,357	..	9,707	17,650	..
	2019	23,981	..	8,158	15,823	..
	2020	27,330	..	9,700	17,630	..
	2021	25,184	..	10,076	15,108	..
Northern America	**2018**	**281,750**	**60,567**	**89,617**	**131,566**	**..**
	2019	**266,902**	**52,531**	**86,408**	**127,963**	**..**
	2020	**230,943**	**54,087**	**73,018**	**103,838**	**..**
	2021	**248,945**	**53,482**	**80,029**	**115,434**	**..**
Canada	2018	46,322	..	24,703	21,619	..
	2019	46,506	..	23,969	22,537	..
	2020	42,243	..	22,789	19,454	..
	2021	42,221	..	19,163	23,058	..

Table 30

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 States	2018	235,428	60,567	64,914	109,947	..
	2019	220,396	52,531	62,439	105,426	..
	2020	188,700	54,087	50,229	84,384	..
	2021	206,724	53,482	60,866	92,376	..
Oceania	**2018**	**49,429**	**38**	**25,016**	**24,078**	**296**
	2019	**48,793**	**38**	**24,874**	**23,578**	**303**
	2020	**48,526**	**39**	**25,639**	**22,577**	**271**
	2021	**49,734**	**47**	**25,796**	**23,599**	**292**
Australia	2018	38,161	38	20,687	17,436	..
	2019	35,774	38	19,023	16,713	..
	2020	36,675	39	20,169	16,467	..
	2021	36,667	47	20,012	16,608	..
New Zealand	2018	11,268	..	4,329	6,642	296
	2019	13,019	..	5,851	6,865	303
	2020	11,851	..	5,470	6,110	271
	2021	13,067	..	5,784	6,991	292

Net installed capacity of electric plants - by type

Megawatts

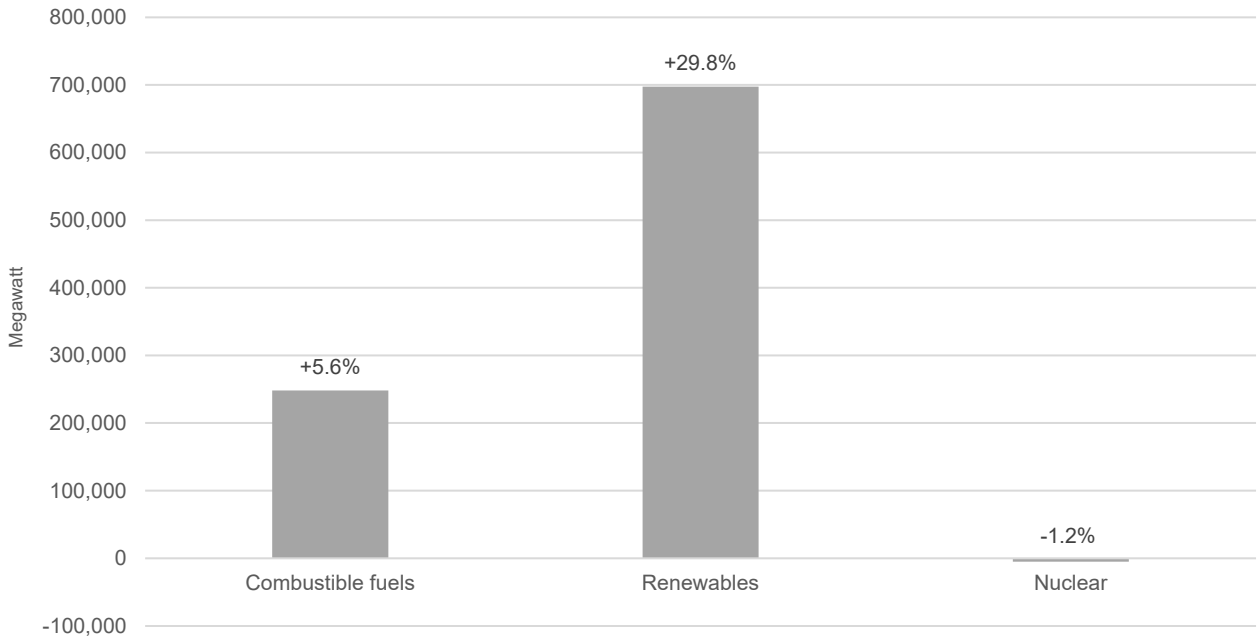
Table Notes

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 76: Change in net installed capacity of electricity generating plants* by source, 2018-2021



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

Table 31

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
World	**2018**	**7,163,336**	**4,419,109**	**1,286,986**	**405,596**	**566,984**	**448,955**	**35,707**
	2019	**7,432,112**	**4,517,536**	**1,305,180**	**404,128**	**625,917**	**541,648**	**37,702**
	2020	**7,781,572**	**4,605,346**	**1,325,922**	**400,399**	**737,275**	**669,897**	**42,732**
	2021	**8,106,092**	**4,667,290**	**1,357,276**	**400,581**	**830,667**	**806,756**	**43,522**
Africa	**2018**	**225,597**	**176,422**	**35,698**	**1,940**	**5,596**	**4,866**	**1,075**
	2019	**234,811**	**183,489**	**36,087**	**1,940**	**5,856**	**6,118**	**1,321**
	2020	**239,323**	**184,700**	**37,760**	**1,940**	**6,623**	**6,945**	**1,356**
	2021	**245,537**	**188,882**	**38,438**	**1,940**	**7,313**	**7,612**	**1,353**
Algeria	2018	21,166	20,480	228	..	10	448	..
	2019	*21,653	*20,967	228	..	10	448	..
	2020	*21,634	*20,967	209	..	*10	448	..
	2021	*22,448	*21,861	129	..	10	448	..
Angola	2018	5,010	*2,298	2,699	..	..	13	..
	2019	*6,156	*3,444	2,699	..	..	13	..
	2020	7,217	*3,510	3,694	..	..	13	..
	2021	7,217	*3,510	3,694	..	..	*13	..
Benin	2018	*383	*312	*66	..	..	5	..
	2019	*512	*439	*66	..	..	7	..
	2020	*512	*439	*66	..	..	7	..
	2021	*512	*439	*66	..	..	7	..
Botswana	2018	756	752	..	..	..	4	..
	2019	758	752	..	..	..	6	..
	2020	758	752	..	..	..	6	..
	2021	758	752	..	..	..	6	..
Burkina Faso	2018	519	463	32	..	..	*24	..
	2019	554	467	32	..	..	55	..
	2020	593	505	32	..	..	55	..
	2021	620	532	32	..	..	56	..
Burundi	2018	88	35	48	..	..	5	..
	2019	108	55	48	..	..	5	..
	2020	108	55	48	..	..	5	..
	2021	112	55	48	..	..	9	..
Cabo Verde	2018	179	148	..	..	24	7	..
	2019	187	156	..	..	24	7	..
	2020	174	144	..	..	24	7	..
	2021	172	141	..	..	24	7	..
Cameroon	2018	1,664	*918	732	..	..	14	..
	2019	1,744	*918	812	..	..	14	..
	2020	1,749	*923	812	..	..	14	..
	2021	1,749	*923	812	..	..	14	..
Central African Rep.	2018	*44	*19	*25	..	..	0	..
	2019	*44	*19	*25	..	..	0	..
	2020	*44	*19	*25	..	..	0	..
	2021	*44	*19	*25	..	..	0	..
Chad	2018	163	162	..	..	1	0	..
	2019	163	162	..	..	1	0	..
	2020	163	162	..	..	1	0	..
	2021	163	162	..	..	1	0	..
Comoros	2018	*28	*27	1	..	..	..	..
	2019	*28	*27	1	..	..	..	..
	2020	*28	*27	1	..	..	..	..
	2021	32	27	*1	..	..	4	..
Congo	2018	*660	*445	214	..	..	1	..
	2019	*660	*445	214	..	..	1	..
	2020	*830	*615	214	..	..	1	..
	2021	*830	*615	214	..	..	1	..

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
584,037	**464,935**	**18,726**	**100,376**	**6,579,299**	**3,954,174**	**1,268,260**	**405,596**	**951,269**
622,644	**488,308**	**18,783**	**115,553**	**6,809,468**	**4,029,228**	**1,286,397**	**404,128**	**1,089,715**
632,321	**476,456**	**18,980**	**136,885**	**7,149,250**	**4,128,891**	**1,306,942**	**400,399**	**1,313,019**
676,207	**475,584**	**20,026**	**180,596**	**7,429,886**	**4,191,706**	**1,337,250**	**400,581**	**1,500,349**
28,179	**21,924**	**224**	**6,032**	**197,417**	**154,499**	**35,474**	**1,940**	**5,505**
28,306	**22,406**	**259**	**5,642**	**206,504**	**161,083**	**35,828**	**1,940**	**7,654**
28,610	**22,396**	**259**	**5,954**	**210,713**	**162,303**	**37,500**	**1,940**	**8,970**
29,011	**22,208**	**264**	**6,539**	**216,526**	**166,674**	**38,174**	**1,940**	**9,738**
6,079	6,079	..	..	15,087	14,401	228	..	458
*6,567	*6,567	..	..	*15,086	*14,400	228	..	458
*6,567	*6,567	..	..	*15,067	*14,400	209	..	458
*6,265	*6,265	..	..	*16,183	*15,596	129	..	458
*250	*250	..	..	4,760	*2,048	2,699	..	13
*300	*300	..	..	*5,856	*3,144	2,699	..	13
*310	*310	..	..	6,907	*3,200	3,694	..	13
*310	*310	..	..	6,907	*3,200	3,694	..	*13
*45	*45	..	..	*338	*267	*66	..	5
*47	*45	..	2	*465	*394	*66	..	5
*47	*45	..	2	*465	*394	*66	..	5
*47	*45	..	*2	*465	*394	*66	..	5
*20	*20	..	..	736	732	..	..	4
*20	*20	..	..	738	732	..	..	6
*20	*20	..	..	738	732	..	..	6
*20	*20	..	..	738	732	..	..	6
*170	*170	..	..	349	293	32	..	*24
*172	*172	..	..	382	295	32	..	55
*154	*154	..	..	438	351	32	..	55
*181	*181	..	..	439	351	32	..	56
4	4	..	..	84	31	48	..	5
4	4	..	..	104	51	48	..	5
4	4	..	..	104	51	48	..	5
4	4	..	..	108	51	48	..	9
*1	*1	..	..	178	147	..	..	31
*1	*1	..	..	186	155	..	..	31
*1	*1	..	..	174	143	..	..	31
*1	*1	..	..	171	140	..	..	31
*650	*650	..	..	1,014	268	732	..	14
*650	*650	..	..	1,094	268	812	..	14
*650	*650	..	..	1,099	273	812	..	14
*650	*650	..	..	1,099	273	812	..	14
..	..	..	..	*44	*19	*25	..	0
..	..	..	..	*44	*19	*25	..	0
..	..	..	..	*44	*19	*25	..	0
..	..	..	..	*44	*19	*25	..	0
..	..	..	..	163	162	..	..	1
..	..	..	..	163	162	..	..	1
..	..	..	..	163	162	..	..	1
..	..	..	..	163	162	..	..	1
1	..	1	..	*27	*27	..	..	..
1	..	1	..	*27	*27	..	..	..
1	..	1	..	*27	*27	..	..	..
*1	..	*1	..	31	27	..	..	4
*404	*404	..	..	256	*41	214	..	1
*404	*404	..	..	256	*41	214	..	1
*574	*574	..	..	256	*41	214	..	1
*574	*574	..	..	256	*41	214	..	1

Table 31

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	2018	2,169	1,282	879	..	..	8	..
	2019	2,210	1,323	879	..	..	8	..
	2020	2,227	1,335	879	..	..	13	..
	2021	2,282	1,390	879	..	..	13	..
Dem. Rep. of the Congo	2018	2,634	56	2,577	..	..	*1	..
	2019	2,610	32	2,577	..	..	*1	..
	2020	2,820	32	2,787	..	..	1	..
	2021	*2,973	*32	*2,939	..	..	1	..
Djibouti	2018	130	130	..	..	..	0	..
	2019	130	130	..	..	..	0	..
	2020	130	130	..	..	..	0	..
	2021	130	130	..	..	..	0	..
Egypt	2018	56,574	52,585	2,832	..	967	190	..
	2019	58,353	53,394	2,832	..	1,127	1,000	..
	2020	59,530	53,802	2,832	..	1,385	1,511	..
	2021	58,819	52,971	2,832	..	1,385	1,631	..
Equatorial Guinea	2018	*554	*222	*327	..	..	*5	..
	2019	*554	*222	*327	..	..	*5	..
	2020	*554	*222	*327	..	..	*5	..
	2021	*554	*222	*327	..	..	*5	..
Eritrea	2018	*224	*205	..	..	1	18	..
	2019	*226	*205	..	..	1	20	..
	2020	*230	*207	..	..	1	22	..
	2021	242	217	..	..	1	24	..
Eswatini	2018	181	119	62	..	..	0	..
	2019	173	109	62	..	..	*2	..
	2020	*171	*107	62	..	..	*2	..
	2021	*182	*108	62	..	..	12	..
Ethiopia	2018	4,286	130	3,814	..	324	11	7
	2019	4,293	134	3,817	..	324	11	7
	2020	4,556	*134	4,071	..	324	20	7
	2021	4,569	*145	4,071	..	324	21	7
Gabon	2018	751	418	332	..	..	*1	..
	2019	*784	*451	332	..	..	*1	..
	2020	*784	*451	332	..	..	*1	..
	2021	*784	*451	332	..	..	*1	..
Gambia	2018	*126	*123	..	..	1	2	..
	2019	*137	*134	..	..	1	3	..
	2020	142	138	..	..	*1	3	..
	2021	*162	*158	..	..	*1	3	..
Ghana	2018	5,099	3,476	1,580	..	..	43	0
	2019	5,382	3,759	1,580	..	..	43	0
	2020	5,288	3,649	1,580	..	..	59	0
	2021	5,449	3,753	1,584	..	..	112	0
Guinea	2018	660	*293	367	..	..	..	..
	2019	659	*297	362	..	..	..	..
	2020	963	*376	587	..	..	..	..
	2021	1,037	*225	812	..	..	..	..
Guinea-Bissau	2018	*27	*26	..	..	..	1	..
	2019	*28	*27	..	..	..	1	..
	2020	*28	*27	..	..	..	1	..
	2021	*28	*27	..	..	..	1	..
Kenya	2018	3,043	1,209	821	..	336	51	627
	2019	3,155	1,113	826	..	336	51	828
	2020	3,173	1,087	834	..	336	53	863
	2021	*3,384	*1,088	850	..	436	147	*863

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	..	..	2,146	1,259	879	..	8
*23	*23	..	..	2,187	1,300	879	..	8
*23	*23	..	..	2,204	1,312	879	..	13
*23	*23	..	..	2,259	1,367	879	..	13
*25	*25	..	..	2,609	32	2,577	..	*1
..	..	..	..	2,610	32	2,577	..	*1
..	..	..	..	2,820	32	2,787	..	1
..	..	..	..	*2,973	*32	*2,939	..	1
..	..	..	..	130	130	..	..	0
..	..	..	..	130	130	..	..	0
..	..	..	..	130	130	..	..	0
..	..	..	..	130	130	..	..	0
2,048	2,048	..	..	54,526	50,537	2,832	..	1,157
2,048	2,048	..	..	56,305	51,346	2,832	..	2,127
2,048	2,048	..	..	57,482	51,754	2,832	..	2,896
2,048	2,048	..	..	56,771	50,923	2,832	..	3,016
..	..	..	..	*554	*222	*327	..	*5
..	..	..	..	*554	*222	*327	..	*5
..	..	..	..	*554	*222	*327	..	*5
..	..	..	..	*554	*222	*327	..	*5
*10	*10	..	..	*214	*195	..	..	19
*10	*10	..	..	*216	*195	..	..	21
*12	*12	..	..	*218	*195	..	..	23
*12	*12	..	..	230	205	..	..	25
110	109	*1	0	71	*10	61	..	..
112	109	*1	*2	61	..	61	..	..
*110	*107	*1	*2	61	..	61	..	..
*111	*108	*1	*2	71	..	61	..	10
26	26	..	..	4,260	104	3,814	..	342
30	30	..	..	4,263	104	3,817	..	342
30	30	..	..	4,526	*104	4,071	..	351
*30	*30	..	..	4,539	*115	4,071	..	352
88	85	*2	*1	663	333	330	..	..
*88	*85	*2	*1	*696	*366	330	..	..
*88	*85	*2	*1	*696	*366	330	..	..
*88	*85	*2	*1	*696	*366	330	..	..
*36	*36	..	..	*90	*87	..	..	3
*36	*36	..	..	*102	*98	..	..	4
*36	*36	..	..	106	102	..	..	4
*36	*36	..	..	*126	*122	..	..	4
*210	*210	..	..	4,889	3,266	1,580	..	43
*210	*210	..	..	5,172	3,549	1,580	..	43
..	..	..	..	5,288	3,649	1,580	..	59
..	..	..	..	5,449	3,753	1,584	..	112
*194	*194	..	..	466	*100	367	..	..
*204	*204	..	..	455	*93	362	..	..
*272	*272	..	..	691	*104	587	..	..
*107	*107	..	..	931	*119	812	..	..
*5	*5	..	..	*22	*21	..	..	1
*5	*5	..	..	*22	*21	..	..	1
*5	*5	..	..	*22	*21	..	..	1
*5	*5	..	..	*22	*21	..	..	1
364	364	..	..	2,679	845	821	..	1,014
364	364	..	..	2,791	749	826	..	1,216
338	338	..	..	2,835	749	834	..	1,252
*343	*338	*5	..	*3,041	*750	845	..	*1,446

Table 31

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Lesotho	2018	75	1	74	..	..	0	..
	2019	75	1	74	..	..	0	..
	2020	75	1	74	..	..	0	..
	2021	76	1	75	..	..	0	..
Liberia	2018	*195	*100	*92	..	..	*3	..
	2019	*195	*100	*92	..	..	*3	..
	2020	185	*102	80	..	..	*3	..
	2021	161	*98	60	..	..	*3	..
Libya	2018	10,516	10,511	..	..	..	5	..
	2019	10,516	10,511	..	..	..	5	..
	2020	*10,516	*10,511	..	..	..	5	..
	2021	*10,517	*10,511	..	..	..	6	..
Madagascar	2018	706	521	165	..	0	20	..
	2019	592	407	165	..	0	20	..
	2020	*649	*465	164	..	0	20	..
	2021	*695	*511	164	..	0	20	..
Malawi	2018	593	*211	356	..	..	26	..
	2019	647	*211	356	..	..	80	..
	2020	664	*211	373	..	..	80	..
	2021	743	*211	392	..	..	140	..
Mali	2018	*1,098	629	*450	..	..	19	..
	2019	*1,100	629	*450	..	..	21	..
	2020	*1,204	629	*453	..	..	122	..
	2021	*1,204	629	*453	..	..	*122	..
Mauritania	2018	*571	*449	..	..	34	88	..
	2019	*608	*486	..	..	34	*88	..
	2020	*626	*504	..	..	34	*88	..
	2021	*626	*504	..	..	34	*88	..
Mauritius	2018	873	732	60	..	11	67	3
	2019	844	681	60	..	11	89	3
	2020	862	681	61	..	11	106	3
	2021	863	684	61	..	11	108	..
Morocco	2018	12,785	9,151	1,770	..	1,196	261	*407
	2019	14,412	10,276	1,770	..	1,248	711	*407
	2020	14,432	10,046	1,770	..	1,458	751	*407
	2021	*14,548	*10,046	1,770	..	1,471	854	*407
Mozambique	2018	2,719	*460	2,204	..	..	55	..
	2019	2,789	*490	2,204	..	..	95	..
	2020	2,789	*490	2,204	..	..	95	..
	2021	2,776	*490	2,191	..	..	*95	..
Namibia	2018	582	143	347	..	5	88	..
	2019	600	113	347	..	5	135	..
	2020	616	113	347	..	5	151	..
	2021	628	120	351	..	5	151	..
Niger	2018	311	291	..	..	..	20	..
	2019	*324	*297	..	..	..	27	..
	2020	*324	*297	..	..	..	27	..
	2021	*324	*297	..	..	..	*27	..
Nigeria	2018	*12,275	*10,142	*2,111	..	3	19	..
	2019	11,681	9,539	*2,111	..	3	28	..
	2020	12,004	9,862	*2,111	..	*3	28	..
	2021	13,247	11,103	*2,111	..	..	33	..
Rwanda	2018	226	121	92	..	..	12	..
	2019	228	122	95	..	..	12	..
	2020	238	122	105	..	..	12	..
	2021	*239	*122	*105	..	..	*12	..

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	75	1	74	..	0
..	..	..	..	75	1	74	..	0
..	..	..	..	75	1	74	..	0
..	..	..	..	76	1	75	..	0
*73	*70	..	*3	*122	*30	*92	..	..
*73	*70	..	*3	*122	*30	*92	..	..
*73	*70	..	*3	112	32	80	..	..
*73	*70	..	*3	88	28	60	..	0
..	..	..	..	10,516	10,511	..	..	5
..	..	..	..	10,516	10,511	..	..	5
..	..	..	..	*10,516	*10,511	..	..	5
..	..	..	..	*10,517	*10,511	..	..	6
*108	*108	..	..	598	413	165	..	20
*106	*106	..	..	486	301	165	..	20
*102	*102	..	..	*547	*363	164	..	20
*103	*103	..	..	*592	*408	164	..	20
*215	*210	*5	..	378	*1	351	..	26
*215	*210	*5	..	432	*1	351	..	80
*215	*210	*5	..	449	*1	368	..	80
*215	*210	*5	..	528	*1	387	..	140
*277	*260	..	17	*821	369	*450	..	2
*279	*260	..	19	*821	369	*450	..	2
*330	*260	..	70	*874	369	*453	..	52
*330	*260	..	*70	*874	369	*453	..	52
*92	*85	..	7	*479	*364	..	..	115
*97	*90	..	7	*511	*396	..	..	*115
*102	*95	..	7	*524	*409	..	..	*115
*102	*95	..	7	*524	*409	..	..	*115
357	281	..	76	516	450	60	..	5
329	230	..	98	516	450	60	..	5
346	230	..	116	516	450	61	..	5
346	234	..	112	517	450	61	..	7
*3,728	*3,300	..	*428	9,057	5,851	1,770	..	1,436
*3,728	*3,300	..	*428	10,684	6,976	1,770	..	1,938
*3,728	*3,300	..	*428	10,704	6,746	1,770	..	2,188
*3,728	*3,300	..	*428	*10,820	*6,746	1,770	..	2,304
*50	*50	..	..	2,669	*410	2,204	..	55
*50	*50	..	..	2,739	*440	2,204	..	95
*50	*50	..	..	2,739	*440	2,204	..	95
*50	*50	..	..	2,726	*440	2,191	..	*95
..	..	..	..	582	143	347	..	93
..	..	..	..	600	113	347	..	140
..	..	..	..	616	113	347	..	157
..	..	..	..	628	120	351	..	157
73	53	..	20	238	238	..	..	..
*80	*53	..	27	*244	*244	..	..	..
*80	*53	..	27	*244	*244	..	..	..
*80	*53	..	*27	*244	*244	..	..	..
*3,242	*3,180	*40	22	*9,033	*6,962	*2,071	..	..
*3,251	*3,180	*40	31	8,430	6,359	*2,071	..	..
*3,251	*3,180	*40	31	8,753	6,682	*2,071	..	..
*3,405	*3,332	*40	33	9,842	7,771	*2,071	..	..
*1	*1	..	..	225	120	92	..	12
*1	*1	..	..	227	121	95	..	12
*1	*1	..	..	237	121	105	..	12
*1	*1	..	..	*238	*121	*105	..	*12

Table 31

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	2018	*29	*26	2	..	..	0	..
	2019	*30	*27	2	..	..	0	..
	2020	*30	*27	2	..	..	0	..
	2021	*30	*27	*2	..	..	0	..
Senegal	2018	1,174	1,001	..	..	..	143	*30
	2019	1,321	1,024	..	..	55	*166	*75
	2020	1,481	1,082	..	..	159	*166	*75
	2021	1,649	1,189	..	..	159	*226	*75
Seychelles	2018	*156	*146	..	..	6	4	..
	2019	*157	*147	..	..	6	4	..
	2020	143	133	..	..	6	4	..
	2021	152	133	..	..	6	12	..
Sierra Leone	2018	*142	*77	61	..	..	4	..
	2019	143	78	61	..	..	4	..
	2020	99	*34	61	..	..	4	..
	2021	99	*34	61	..	..	4	..
Somalia	2018	111	100	..	..	4	7	..
	2019	111	100	..	..	4	7	..
	2020	119	100	..	..	4	16	..
	2021	133	106	..	..	4	24	..
South Africa	2018	*56,305	*45,497	3,479	1,940	*2,430	2,959	..
	2019	*58,783	*48,380	*3,479	1,940	*2,423	2,561	..
	2020	*58,982	*48,380	*3,485	1,940	*2,616	2,561	..
	2021	61,962	50,780	*3,485	1,940	*3,196	*2,561	..
South Sudan	2018	*131	*120	*3	..	..	*8	..
	2019	*131	*120	*3	..	..	*8	..
	2020	*131	*120	*3	..	..	*8	..
	2021	*131	*120	*3	..	..	*8	..
St. Helena and Depend.	2018	12	8	..	..	3	2	..
	2019	12	8	..	..	*3	*2	..
	2020	12	8	..	..	*3	*2	..
	2021	10	5	..	..	3	*2	..
Sudan	2018	3,979	2,013	1,907	..	..	59	..
	2019	3,937	*1,944	1,913	..	..	80	..
	2020	3,944	*1,944	1,883	..	..	117	..
	2021	3,946	*1,944	1,885	..	..	*117	..
Togo	2018	227	157	67	..	..	4	..
	2019	230	158	67	..	..	5	..
	2020	*259	*185	67	..	..	7	..
	2021	*317	*193	67	..	..	57	..
Tunisia	2018	4,840	4,474	62	..	240	64	..
	2019	5,926	5,539	62	..	240	85	..
	2020	6,249	5,820	62	..	240	127	..
	2021	6,316	5,822	62	..	240	192	..
Uganda	2018	984	198	744	..	..	42	..
	2019	1,255	199	1,004	..	..	52	..
	2020	1,270	197	1,011	..	..	62	..
	2021	1,349	214	1,074	..	..	62	..
United Rep. of Tanzania	2018	1,607	1,015	567	..	..	25	..
	2019	1,530	931	574	..	..	26	..
	2020	*1,608	*1,000	574	..	2	*32	..
	2021	*1,736	*1,126	575	..	2	*32	..
Zambia	2018	2,933	533	2,398	..	..	1	..
	2019	3,016	528	2,399	..	..	89	..
	2020	3,046	558	2,399	..	..	89	..
	2021	3,436	645	2,703	..	..	89	..

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	*29	*26	2	..	0
..	..	..	..	*30	*27	2	..	0
..	..	..	..	*30	*27	2	..	0
..	..	..	..	*30	*27	*2	..	0
503	330	..	173	671	671	..	..	..
461	330	..	*131	860	694	..	..	*165
*463	*330	..	*133	1,018	752	..	..	267
*465	*330	..	*135	1,184	859	..	..	*325
*29	*29	..	..	*126	*116	..	..	10
*29	*29	..	..	*128	*118	..	..	10
*29	*29	..	..	114	104	..	..	10
*29	*29	..	..	123	104	..	..	18
2	2	..	..	*140	*75	61	..	4
2	2	..	..	141	76	61	..	4
2	2	..	..	97	*32	61	..	4
*2	*2	..	..	97	*32	61	..	4
..	..	..	..	111	100	..	..	11
..	..	..	..	111	100	..	..	11
..	..	..	..	119	100	..	..	19
..	..	..	..	133	106	..	..	27
*7,650	*2,400	*61	5,189	*48,655	*43,097	3,418	1,940	*200
*7,245	*2,400	*61	4,784	*51,538	*45,980	*3,418	1,940	*200
*7,438	*2,400	*61	4,977	*51,544	*45,980	*3,424	1,940	*200
*7,918	*2,400	*61	*5,457	54,044	48,380	*3,424	1,940	*300
*41	*40	..	*1	*90	*80	*3	..	*7
*41	*40	..	*1	*90	*80	*3	..	*7
*41	*40	..	*1	*90	*80	*3	..	*7
*41	*40	..	*1	*90	*80	*3	..	*7
..	..	..	..	12	8	..	..	4
..	..	..	..	12	8	..	..	*4
..	..	..	..	12	8	..	..	*4
..	..	..	..	10	5	..	..	4
199	199	..	..	3,780	1,814	1,907	..	59
*199	*199	..	..	3,738	*1,745	1,913	..	80
*199	*199	..	..	3,745	*1,745	1,883	..	117
*199	*199	..	..	3,747	*1,745	1,885	..	*117
*12	*8	..	4	216	149	67	..	..
*13	*8	..	5	217	150	67	..	..
*15	*8	..	7	*244	*177	67	..	..
65	*8	..	57	*252	*185	67	..	..
*262	*198	..	64	4,578	4,276	62	..	240
*273	*198	..	75	5,653	5,341	62	..	250
*315	*198	..	117	5,934	5,622	62	..	250
*372	*200	..	172	5,944	5,622	62	..	260
211	96	114	*1	772	102	630	..	41
248	97	149	*1	1,007	102	855	..	51
246	96	149	1	1,023	101	862	..	61
246	96	149	1	1,103	118	925	..	61
211	186	..	25	1,396	829	567	..	..
*212	*186	..	26	1,318	745	574	..	..
*214	*182	..	*32	*1,394	*818	574	..	2
221	188	..	*32	*1,515	*938	575	..	2
*34	*34	..	..	2,898	499	2,398	..	1
*34	*34	..	..	2,981	494	2,399	..	89
*34	*34	..	..	3,011	524	2,399	..	89
*120	*120	..	..	3,316	525	2,703	..	89

Table 31

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Zimbabwe	2018	2,324	1,265	1,050	..	..	9	..
	2019	*2,357	*1,265	1,080	..	..	12	..
	2020	*2,359	*1,265	1,080	..	..	14	..
	2021	*2,373	*1,265	1,080	..	..	28	..
Asia	**2018**	**3,677,559**	**2,461,066**	**589,041**	**118,698**	**240,472**	**247,072**	**21,211**
	2019	**3,852,984**	**2,544,508**	**599,082**	**118,583**	**269,164**	**299,657**	**21,992**
	2020	**4,127,559**	**2,639,648**	**616,851**	**120,073**	**346,199**	**377,472**	**27,317**
	2021	**4,346,253**	**2,695,651**	**642,993**	**123,598**	**403,441**	**452,724**	**27,846**
Afghanistan	2018	*541	*135	*384	..	..	22	..
	2019	*550	*135	*384	..	..	31	..
	2020	*550	*135	*384	..	..	31	..
	2021	*558	*135	*392	..	..	31	..
Armenia	2018	3,591	1,827	1,336	408	3	18	..
	2019	3,621	1,827	1,340	408	4	43	..
	2020	3,687	1,832	1,350	408	4	94	..
	2021	4,070	2,086	1,345	448	4	187	..
Azerbaijan	2018	7,829	6,597	1,131	..	66	35	..
	2019	7,639	6,395	1,145	..	66	33	..
	2020	7,622	6,371	1,149	..	66	35	..
	2021	7,965	6,694	1,157	..	66	48	..
Bahrain	2018	6,977	6,971	..	..	*1	*5	..
	2019	*6,977	*6,971	..	..	*1	*5	..
	2020	*6,982	*6,971	..	..	*1	10	..
	2021	*6,982	*6,971	..	..	*1	*10	..
Bangladesh	2018	*15,293	*14,927	230	..	*1	135	..
	2019	18,054	17,541	230	..	3	280	..
	2020	19,531	18,955	230	..	3	343	..
	2021	21,252	20,512	230	..	4	506	..
Bhutan	2018	1,623	8	1,614	..	1	0	..
	2019	2,342	7	2,334	..	1	0	..
	2020	2,343	8	2,334	..	1	0	..
	2021	2,335	8	2,326	..	1	0	..
Brunei Darussalam	2018	993	992	..	..	..	1	..
	2019	1,109	1,108	..	..	..	1	..
	2020	*1,127	*1,126	..	..	..	1	..
	2021	1,138	1,133	..	..	..	*5	..
Cambodia	2018	2,187	847	1,330	..	..	10	..
	2019	2,443	1,007	1,330	..	..	105	..
	2020	2,991	1,365	1,330	..	..	297	..
	2021	3,033	1,325	1,332	..	..	377	..
China	2018	1,952,038	1,195,998	352,590	44,660	184,270	174,330	190
	2019	2,065,020	1,244,540	358,040	48,740	209,150	204,180	370
	2020	2,258,630	1,302,840	370,280	49,890	281,650	253,560	410
	2021	2,424,060	1,343,670	390,920	53,260	328,710	306,560	940
China, Hong Kong SAR	2018	12,282	12,282	..	..	..	..	..
	2019	12,225	12,225	..	..	..	..	..
	2020	13,129	13,129	..	..	..	..	..
	2021	13,240	13,240	..	..	..	..	..
China, Macao SAR	2018	397	397	..	..	..	0	..
	2019	397	397	..	..	..	0	..
	2020	397	397	..	..	..	0	..
	2021	397	397	..	..	..	0	..
Cyprus	2018	1,794	1,517	..	..	158	119	..
	2019	1,819	1,510	..	..	158	151	..
	2020	1,897	1,510	..	..	158	229	..
	2021	1,983	1,511	..	..	158	315	..

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	..	..	2,279	1,220	1,050	..	9
*45	*45	..	..	*2,312	*1,220	1,080	..	12
*45	*45	..	..	*2,314	*1,220	1,080	..	14
*45	*45	..	..	*2,328	*1,220	1,080	..	28
288,883	**260,812**	**3,441**	**24,630**	**3,388,676**	**2,200,254**	**585,599**	**118,698**	**484,125**
315,312	**284,143**	**3,447**	**27,722**	**3,537,672**	**2,260,365**	**595,634**	**118,583**	**563,090**
303,738	**270,063**	**3,518**	**30,157**	**3,823,822**	**2,369,585**	**613,334**	**120,073**	**720,831**
306,957	**267,545**	**4,568**	**34,844**	**4,039,296**	**2,428,106**	**638,426**	**123,598**	**849,166**
*215	*65	*130	20	*326	*70	*254	..	2
*214	*65	*130	19	*336	*70	*254	..	12
*214	*65	*130	19	*336	*70	*254	..	12
*214	*65	*130	19	*344	*70	*262	..	12
10	..	..	10	3,581	1,827	1,336	408	11
33	..	..	33	3,588	1,827	1,340	408	14
77	..	..	77	3,610	1,832	1,350	408	21
136	..	..	136	3,934	2,086	1,345	448	55
852	852	..	0	6,977	5,746	1,131	..	101
818	818	..	0	6,821	5,578	1,145	..	99
795	794	1	0	6,827	5,578	1,149	..	101
737	732	1	4	7,229	5,962	1,156	..	110
*3,050	*3,050	..	..	3,927	3,921	..	..	*6
*3,050	*3,050	..	..	*3,927	*3,921	..	..	*6
*3,050	*3,050	..	..	*3,932	*3,921	..	..	11
*3,050	*3,050	..	..	*3,932	*3,921	..	..	*11
*4,636	*4,636	..	..	*10,657	*10,291	230	..	136
6,503	6,503	..	..	11,551	11,038	230	..	283
7,332	7,332	..	..	12,199	11,623	230	..	346
8,141	8,141	..	..	13,111	12,371	230	..	510
..	..	..	..	1,623	8	1,614	..	1
..	..	..	..	2,342	7	2,334	..	1
..	..	..	..	2,343	8	2,334	..	1
..	..	..	..	2,335	8	2,326	..	1
117	117	..	..	876	875	..	..	1
*234	*234	..	..	875	874	..	..	1
*234	*234	..	..	*893	*892	..	..	1
*238	*234	..	*4	900	899	..	..	*1
..	..	..	..	2,187	847	1,330	..	10
..	..	..	..	2,443	1,007	1,330	..	105
..	..	..	..	2,991	1,365	1,330	..	297
..	..	..	..	3,033	1,325	1,332	..	377
*51,190	*51,190	..	..	1,900,848	1,144,808	352,590	44,660	358,790
54,970	54,970	..	..	2,010,050	1,189,570	358,040	48,740	413,700
56,600	56,600	..	..	2,202,030	1,246,240	370,280	49,890	535,620
46,280	46,280	..	..	2,377,780	1,297,390	390,920	53,260	636,210
..	..	..	..	12,282	12,282	..	..	..
..	..	..	..	12,225	12,225	..	..	..
..	..	..	..	13,129	13,129	..	..	..
..	..	..	..	13,240	13,240	..	..	..
29	29	..	0	368	368	..	..	..
29	29	..	0	368	368	..	..	..
29	29	..	0	368	368	..	..	..
29	29	..	0	368	368	..	..	..
78	37	..	41	1,716	1,481	..	..	236
93	30	..	63	1,726	1,481	..	..	246
122	30	..	92	1,775	1,481	..	..	295
157	30	..	127	1,826	1,480	..	..	346

Table 31

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Georgia	2018	3,591	876	2,695	..	20	..	..
	2019	3,712	1,108	2,583	..	21	..	..
	2020	3,739	990	2,727	..	21	..	..
	2021	4,272	1,001	3,250	..	21	..	..
India	2018	427,794	298,316	45,502	6,780	38,825	28,455	9,916
	2019	442,320	305,307	45,830	6,780	40,490	33,912	10,001
	2020	458,430	307,076	46,341	6,780	*42,808	*40,315	*15,110
	2021	478,860	312,209	46,858	6,780	*46,633	*50,795	*15,585
Indonesia	2018	63,913	56,013	5,587	..	*143	*37	2,132
	2019	65,097	57,079	5,617	..	*154	*118	2,129
	2020	65,491	57,225	5,717	..	*155	*119	2,275
	2021	66,770	57,494	6,139	..	*155	*186	2,795
Iran (Islamic Rep. of)	2018	78,794	65,253	11,953	1,020	282	286	..
	2019	80,467	66,752	12,026	1,020	302	367	..
	2020	83,506	69,590	12,192	1,020	*303	*402	..
	2021	85,432	71,449	12,193	1,020	*310	*459	..
Iraq	2018	27,234	25,400	1,797	..	..	37	..
	2019	27,234	25,400	1,797	..	..	37	..
	2020	*27,234	*25,400	1,797	..	..	37	..
	2021	*27,234	*25,400	1,797	..	..	37	..
Israel	2018	18,020	16,617	9	..	35	1,358	..
	2019	19,139	16,837	9	..	35	2,257	..
	2020	20,006	16,982	309	..	35	2,680	..
	2021	21,358	17,437	309	..	21	3,591	..
Japan	2018	310,227	200,893	50,037	38,042	3,498	14,974	*2,783
	2019	302,288	195,898	50,033	33,083	3,951	16,522	*2,801
	2020	307,082	198,255	50,033	33,083	4,119	19,028	*2,564
	2021	306,545	195,455	50,009	33,083	4,262	21,042	*2,695
Jordan	2018	4,891	3,796	6	..	280	809	..
	2019	5,269	3,796	6	..	370	1,097	..
	2020	6,561	4,250	6	..	518	*1,787	..
	2021	6,811	4,247	4	..	622	*1,938	..
Kazakhstan	2018	26,192	22,640	2,756	..	121	675	..
	2019	24,827	20,281	2,778	..	284	1,485	..
	2020	25,976	20,652	2,785	..	486	2,054	..
	2021	26,803	21,956	*2,806	..	672	1,369	..
Korea, Dem.Ppl's.Rep.	2018	8,188	3,360	4,790	..	1	38	..
	2019	8,192	3,360	4,790	..	1	42	..
	2020	8,267	*3,360	4,865	..	1	42	..
	2021	8,278	*3,360	4,865	..	1	52	..
Korea, Republic of	2018	128,299	89,014	6,490	21,850	1,420	8,921	603
	2019	132,870	88,174	6,509	23,250	1,494	12,717	725
	2020	139,145	89,555	6,506	23,250	1,645	17,323	866
	2021	143,886	90,109	6,541	23,250	1,724	21,264	998
Kuwait	2018	18,778	18,723	..	..	12	43	..
	2019	18,779	18,723	..	..	12	43	..
	2020	20,209	20,153	..	..	12	43	..
	2021	20,236	20,180	..	..	12	43	..
Kyrgyzstan	2018	*3,869	*734	*3,135	..	..	..	..
	2019	3,869	734	3,135	..	..	..	..
	2020	3,869	734	3,135	..	..	..	..
	2021	3,869	734	3,135	..	..	..	..
Lao People's Dem. Rep.	2018	7,187	1,909	5,256	..	..	22	..
	2019	8,014	*1,909	6,083	..	..	22	..
	2020	9,998	*2,600	7,376	..	..	*22	..
	2021	11,630	*2,817	8,791	..	..	*22	..

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	3,591	876	2,695	..	20
..	..	..	..	3,712	1,108	2,583	..	21
..	..	..	..	3,739	990	2,727	..	21
..	..	..	..	4,272	1,001	3,250	..	21
75,615	72,037	103	*3,475	352,179	226,279	45,399	6,780	73,721
78,023	74,707	131	*3,185	364,297	230,600	45,699	6,780	81,218
76,279	72,348	132	*3,799	382,151	234,728	46,209	6,780	*94,434
80,805	76,100	135	*4,570	398,055	236,109	46,723	6,780	*108,443
11,567	11,249	152	*166	52,346	44,763	5,436	..	2,146
12,480	12,056	170	*254	52,616	45,022	5,447	..	2,147
12,453	11,993	204	*256	53,039	45,231	5,513	..	2,294
13,164	12,430	478	*256	53,606	45,064	5,661	..	2,881
*5,905	*5,905	..	..	72,889	59,348	11,953	1,020	568
*6,000	*6,000	..	..	74,467	60,752	12,026	1,020	669
*6,000	*6,000	..	..	77,506	63,590	12,192	1,020	*704
*6,000	*6,000	..	..	79,432	65,449	12,193	1,020	*770
37	..	..	37	27,197	25,400	1,797	..	..
37	..	..	37	27,197	25,400	1,797	..	..
37	..	..	37	*27,197	*25,400	1,797	..	..
37	..	..	37	*27,197	*25,400	1,797	..	..
2,018	653	7	1,358	16,001	15,964	2	..	35
2,678	656	7	2,015	16,460	16,181	2	..	277
3,188	743	7	2,438	16,818	16,239	302	..	277
4,103	748	7	3,349	17,255	16,690	302	..	263
34,347	25,187	455	8,705	275,879	175,706	49,582	38,042	12,550
33,735	24,654	398	8,682	268,553	171,244	49,635	33,083	14,592
34,609	25,128	398	9,084	272,472	173,127	49,635	33,083	16,627
34,327	24,403	396	9,527	272,218	171,052	49,612	33,083	18,471
610	*250	..	360	4,281	3,546	6	..	729
710	*250	..	460	4,559	3,546	6	..	1,007
*1,150	*250	..	*900	5,411	4,000	6	..	1,405
*1,270	*270	..	*1,000	5,541	3,977	4	..	1,560
*923	*738	..	*185	25,269	21,902	2,756	..	611
*537	*202	..	*335	24,291	20,079	2,778	..	1,434
*908	*573	..	*335	25,068	20,079	2,785	..	2,205
*3,847	*2,500	*1,000	*347	22,956	19,456	*1,806	..	1,694
..	..	..	..	8,188	3,360	4,790	..	38
..	..	..	..	8,192	3,360	4,790	..	42
..	..	..	..	8,267	*3,360	4,865	..	42
..	..	..	..	8,278	*3,360	4,865	..	53
10,556	8,875	..	1,681	117,742	80,138	6,490	21,850	9,263
10,028	7,963	..	2,065	122,842	80,211	6,509	23,250	12,871
10,394	7,963	..	2,431	128,751	81,592	6,506	23,250	17,403
10,727	7,963	..	2,764	133,159	82,146	6,541	23,250	21,222
..	..	..	..	18,778	18,723	..	..	55
..	..	..	..	18,779	18,723	..	..	56
..	..	..	..	20,209	20,153	..	..	56
..	..	..	..	20,236	20,180	..	..	56
*6	*6	..	..	*3,863	*728	*3,135	..	..
6	6	..	..	3,863	728	3,135	..	..
*6	*6	..	..	3,863	728	3,135	..	..
*6	*6	..	..	3,863	728	3,135	..	..
..	..	..	..	7,187	1,909	5,256	..	22
..	..	..	..	8,014	*1,909	6,083	..	22
..	..	..	..	9,998	*2,600	7,376	..	*22
..	..	..	..	11,630	*2,817	8,791	..	*22

Table 31

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Lebanon	2018	3,736	3,409	282	..	3	42	..
	2019	3,773	3,409	282	..	3	79	..
	2020	*3,773	*3,409	282	..	3	79	..
	2021	*4,070	*3,600	282	..	3	185	..
Malaysia	2018	34,389	26,432	6,168	..	..	1,004	786
	2019	*34,153	*26,260	6,245	..	..	882	766
	2020	*35,863	*27,257	6,275	..	..	1,556	*775
	2021	36,985	28,168	6,190	..	..	1,860	*766
Maldives	2018	*304	*286	..	..	1	16	..
	2019	410	388	..	..	1	21	..
	2020	*414	*386	..	..	1	27	..
	2021	*419	*387	..	..	1	31	..
Mongolia	2018	*1,461	*1,210	31	..	156	64	..
	2019	*1,486	*1,210	31	..	156	89	..
	2020	*1,507	*1,230	31	..	156	90	..
	2021	*1,507	*1,230	31	..	156	90	..
Myanmar	2018	5,838	2,536	3,262	..	..	40	..
	2019	7,129	3,827	3,262	..	..	40	..
	2020	6,830	3,527	3,262	..	..	41	..
	2021	7,174	3,841	3,262	..	..	71	..
Nepal	2018	1,229	53	1,129	..	*6	*41	..
	2019	1,238	53	1,129	..	*14	*41	..
	2020	1,395	53	1,278	..	*14	*50	..
	2021	2,204	53	2,082	..	*14	55	..
Oman	2018	8,450	8,442	..	..	..	8	..
	2019	11,567	11,508	..	..	50	9	..
	2020	11,960	11,798	..	..	50	112	..
	2021	11,920	11,733	..	..	49	138	..
Other Asia	2018	52,484	39,510	4,694	4,508	1,016	2,756	0
	2019	55,958	41,960	4,695	3,872	1,157	4,274	0
	2020	57,738	41,919	4,695	3,872	1,157	6,094	0
	2021	59,401	43,019	4,696	2,887	1,094	7,700	5
Pakistan	2018	37,847	24,386	9,757	1,430	1,242	505	527
	2019	39,885	26,273	9,858	1,430	1,242	555	527
	2020	40,606	26,600	9,912	1,770	1,242	555	527
	2021	42,166	26,092	10,733	*2,870	1,692	555	224
Philippines	2018	24,464	17,480	3,717	..	427	896	1,944
	2019	26,187	19,135	3,776	..	427	921	1,928
	2020	26,899	19,713	3,795	..	443	1,019	1,928
	2021	24,639	17,893	3,532	..	427	1,034	1,753
Qatar	2018	*10,590	*10,590	..	..	..	..	..
	2019	*10,590	*10,590	..	..	..	..	..
	2020	*10,590	*10,590	..	..	..	..	..
	2021	10,576	10,576	..	..	..	..	..
Saudi Arabia	2018	96,259	96,172	..	..	3	84	..
	2019	110,085	109,972	..	..	3	109	..
	2020	113,376	113,264	..	..	3	109	..
	2021	117,172	116,632	..	..	*100	*439	..
Singapore	2018	13,966	13,805	..	..	..	161	..
	2019	12,859	12,587	..	..	..	272	..
	2020	12,320	11,987	..	..	..	333	..
	2021	12,474	11,987	..	..	..	487	..
Sri Lanka	2018	4,097	2,069	1,793	..	128	*108	..
	2019	*4,267	*2,182	1,809	..	128	*147	..
	2020	*4,457	*2,182	1,793	..	252	*230	..
	2021	4,700	2,025	1,799	..	252	*624	..

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
*1,142	*1,100	..	42	2,594	2,309	282	..	3
*1,179	*1,100	..	79	2,594	2,309	282	..	3
*1,179	*1,100	..	79	*2,594	*2,309	282	..	3
*1,285	*1,100	..	185	*2,785	*2,500	282	..	3
2,676	1,952	0	723	31,714	24,479	6,168	..	1,066
2,454	1,762	0	692	*31,699	*24,498	6,245	..	956
*2,453	*1,760	0	*693	*33,410	*25,497	6,275	..	1,638
*2,453	*1,760	0	*693	34,532	26,408	6,190	..	1,933
*125	*125	..	..	*179	*161	..	..	18
210	210	..	..	*200	*178	..	..	22
*210	*210	..	..	*204	*176	..	..	28
*210	*210	..	..	*209	*177	..	..	32
41	*10	31	..	*1,420	*1,200	..	..	220
41	*10	31	..	*1,445	*1,200	..	..	245
41	*10	31	..	*1,466	*1,220	..	..	246
41	*10	31	..	*1,466	*1,220	..	..	246
2,694	1,543	1,111	40	3,144	993	2,151	..	..
3,719	2,568	1,111	40	3,410	1,259	2,151	..	..
3,596	2,444	1,111	41	3,234	1,083	2,151	..	..
3,938	2,757	1,111	70	3,236	1,084	2,151	..	1
*164	..	*124	*40	1,065	53	1,005	..	*7
*164	..	*124	*40	1,074	53	1,005	..	*15
*208	..	*168	*40	1,187	53	1,110	..	*24
511	..	478	33	1,693	53	1,604	..	36
..	..	..	..	8,450	8,442	..	..	8
..	..	..	..	11,567	11,508	..	..	59
..	..	..	..	11,960	11,798	..	..	162
..	..	..	..	11,920	11,733	..	..	187
19,028	15,577	..	3,451	33,456	23,933	4,694	4,508	321
20,529	15,534	..	4,995	35,429	26,426	4,695	3,872	436
22,241	15,578	1	6,662	35,498	26,341	4,695	3,872	590
24,788	16,677	2	8,109	34,613	26,341	4,694	2,887	690
1,017	490	..	527	36,830	23,896	9,757	1,430	1,747
1,024	497	..	527	38,861	25,776	9,858	1,430	1,797
977	450	..	527	39,629	26,150	9,912	1,770	1,797
728	504	..	224	41,438	25,588	10,733	*2,870	2,247
*649	*633	*16	..	23,815	16,847	3,701	..	3,267
*656	*640	*16	..	25,531	18,495	3,760	..	3,276
*649	*633	*16	..	26,250	19,080	3,779	..	3,390
*649	*633	*16	..	23,990	17,260	3,516	..	3,214
*9,038	*9,038	..	..	*1,553	*1,553	..	..	..
*9,038	*9,038	..	..	*1,553	*1,553	..	..	..
*9,038	*9,038	..	..	*1,553	*1,553	..	..	..
9,023	9,023	..	..	1,553	1,553	..	..	..
*19,235	*19,235	..	..	77,024	76,937	..	..	87
33,600	33,600	..	..	76,485	76,372	..	..	112
*33,600	*33,600	..	..	79,776	79,664	..	..	112
*33,600	*33,600	..	..	83,572	83,032	..	..	*539
569	569	..	..	13,397	13,236	..	..	161
552	552	..	..	12,307	12,035	..	..	272
552	552	..	..	11,768	11,435	..	..	333
552	552	..	..	11,922	11,435	..	..	487
482	*32	394	*56	3,615	2,037	1,399	..	179
534	*34	410	*90	*3,733	*2,148	1,399	..	186
540	*34	410	*96	*3,917	*2,148	1,383	..	386
*715	*38	*416	*261	3,986	1,987	1,383	..	*616

Table 31

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
State of Palestine	2018	200	160	..	..	..	40	..
	2019	240	160	..	..	..	80	..
	2020	278	160	..	..	..	118	..
	2021	338	160	..	..	..	178	..
Syrian Arab Republic	2018	10,059	8,567	1,490	..	1	1	..
	2019	10,060	8,567	1,490	..	1	2	..
	2020	*10,069	*8,567	1,490	..	1	12	..
	2021	*9,602	*8,079	1,490	..	1	33	..
Tajikistan	2018	*6,577	*719	*5,858	..	..	..	..
	2019	6,451	718	5,733	..	..	..	..
	2020	6,626	718	5,908	..	..	..	..
	2021	6,626	718	5,908	..	..	..	..
Thailand	2018	45,179	35,426	*3,682	..	*1,103	*4,967	0
	2019	45,260	35,082	*3,682	..	*1,507	*4,988	0
	2020	49,550	41,959	3,106	..	1,528	2,957	0
	2021	52,110	44,459	3,109	..	1,544	2,998	0
Timor-Leste	2018	283	283	0	..	..	1	..
	2019	283	283	0	..	..	1	..
	2020	284	283	0	..	..	1	..
	2021	277	276	0	..	..	1	..
Türkiye	2018	88,551	46,712	28,291	..	7,005	5,063	1,480
	2019	91,267	47,284	28,503	..	7,591	5,995	1,894
	2020	95,891	47,396	30,984	..	8,832	6,667	2,011
	2021	99,820	47,820	31,493	..	10,607	7,816	2,084
Turkmenistan	2018	6,511	6,510	1	..	..	..	..
	2019	6,511	6,510	1	..	..	..	..
	2020	6,511	6,510	1	..	..	..	..
	2021	6,511	6,510	1	..	..	..	..
United Arab Emirates	2018	*30,934	*30,349	..	..	..	585	..
	2019	*33,042	*31,287	..	..	..	1,755	..
	2020	34,901	32,846	..	..	..	2,055	..
	2021	35,678	33,106	..	..	..	2,572	..
Uzbekistan	2018	15,046	12,276	1,915	..	1	4	*850
	2019	16,798	14,032	1,908	..	*5	4	*850
	2020	17,502	14,620	2,023	..	*5	4	*850
	2021	16,699	14,543	2,052	..	1	104	..
Viet Nam	2018	*44,815	*26,125	18,341	..	243	106	..
	2019	57,444	30,690	20,678	..	381	5,695	..
	2020	78,066	39,713	21,169	..	524	16,660	..
	2021	82,431	*39,713	21,934	..	4,124	16,660	..
Yemen	2018	*1,769	*1,519	..	..	..	*250	..
	2019	*1,769	*1,519	..	..	..	250	..
	2020	*1,753	*1,500	..	..	..	253	..
	2021	*1,757	*1,500	..	..	..	257	..
Europe	**2018**	**1,448,042**	**703,198**	**271,886**	**166,808**	**181,684**	**121,349**	**3,115**
	2019	**1,494,168**	**713,854**	**274,291**	**166,683**	**196,092**	**139,506**	**3,743**
	2020	**1,521,169**	**707,254**	**274,281**	**163,907**	**208,321**	**164,138**	**3,269**
	2021	**1,553,341**	**698,358**	**275,599**	**161,518**	**222,375**	**192,011**	**3,479**
Albania	2018	2,229	123	2,105	..	..	1	..
	2019	2,361	123	2,223	..	..	15	..
	2020	2,401	123	2,260	..	..	18	..
	2021	2,722	123	2,507	..	..	92	..
Andorra	2018	53	7	46	..	..	*1	..
	2019	53	7	46	..	..	1	..
	2020	54	7	46	..	..	1	..
	2021	54	7	46	..	..	1	..

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
40	20	..	20	160	140	..	..	20
60	20	..	40	180	140	..	..	40
79	20	..	59	199	140	..	..	59
109	20	..	89	229	140	..	..	89
972	972	..	..	9,087	7,595	1,490	..	2
972	972	..	..	9,088	7,595	1,490	..	3
*972	*972	..	..	*9,097	*7,595	1,490	..	12
*972	*972	..	..	*8,630	*7,107	1,490	..	34
..	..	..	..	*6,577	*719	*5,858	..	..
..	..	..	..	6,451	718	5,733	..	..
..	..	..	..	6,626	718	5,908	..	..
..	..	..	..	6,626	718	5,908	..	..
*16,964	*14,949	*15	*2,000	28,215	20,477	*3,667	..	*4,071
16,964	14,949	*15	*2,000	28,296	20,133	*3,667	..	*4,495
..	..	..	..	49,550	41,959	3,106	..	4,485
..	..	..	..	52,110	44,459	3,109	..	4,542
..	..	..	..	283	283	0	..	1
..	..	..	..	283	283	0	..	1
..	..	..	..	284	283	0	..	1
..	..	..	..	277	276	0	..	1
6,437	4,450	551	1,436	82,113	42,262	27,740	..	12,112
7,588	5,222	552	1,814	83,679	42,062	27,951	..	13,666
8,074	5,284	558	2,233	87,817	42,113	30,426	..	15,278
8,156	5,363	15	2,779	91,664	42,457	31,478	..	17,729
..	..	..	..	6,511	6,510	1	..	..
..	..	..	..	6,511	6,510	1	..	..
..	..	..	..	6,511	6,510	1	..	..
..	..	..	..	6,511	6,510	1	..	..
..	..	..	..	*30,934	*30,349	..	..	585
..	..	..	..	*33,042	*31,287	..	..	1,755
..	..	..	..	34,901	32,846	..	..	2,055
..	..	..	..	35,678	33,106	..	..	2,572
..	..	..	..	15,046	12,276	1,915	..	*854
..	..	..	..	16,798	14,032	1,908	..	*859
..	..	..	..	17,502	14,620	2,023	..	*859
*103	*103	..	..	16,596	14,440	2,052	..	104
*5,483	*5,125	*352	*6	*39,332	*21,000	17,989	..	343
*5,483	*5,125	*352	*6	51,961	25,565	20,326	..	6,070
*5,483	*5,125	*352	*6	72,583	34,588	20,817	..	17,178
*5,483	*5,125	*352	*6	76,948	*34,588	21,582	..	20,778
*367	*117	..	*250	*1,402	*1,402	..	..	..
367	*117	..	250	*1,402	*1,402	..	..	..
370	*117	..	253	*1,383	*1,383	..	..	..
374	*117	..	257	*1,383	*1,383	..	..	..
127,735	**92,169**	**3,449**	**32,117**	**1,320,307**	**611,029**	**268,438**	**166,808**	**274,032**
133,597	**92,980**	**3,472**	**37,145**	**1,360,571**	**620,874**	**270,819**	**166,683**	**302,196**
141,790	**92,992**	**3,571**	**45,227**	**1,379,378**	**614,262**	**270,710**	**163,907**	**330,500**
167,701	**93,289**	**3,424**	**70,989**	**1,385,640**	**605,070**	**272,176**	**161,518**	**346,877**
25	25	..	..	2,204	98	2,105	..	1
25	25	..	..	2,336	98	2,223	..	15
25	25	..	..	2,376	98	2,260	..	18
95	25	..	70	2,627	98	2,507	..	22
5	5	..	..	48	2	46	..	*1
5	5	..	..	48	2	46	..	1
5	5	..	..	49	2	46	..	1
5	5	..	..	49	2	46	..	1

Table 31

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Austria	2018	25,638	6,533	14,516	..	3,133	1,455	1
	2019	25,902	6,378	14,597	..	3,224	1,702	1
	2020	26,342	6,437	14,635	..	3,226	2,043	1
	2021	27,382	6,443	14,748	..	3,408	2,783	1
Belarus	2018	10,151	9,808	97	..	92	154	..
	2019	10,183	9,820	97	..	112	154	..
	2020	11,339	9,801	96	1,170	112	160	..
	2021	*11,342	*9,801	*96	*1,170	*112	*163	..
Belgium	2018	22,726	8,086	1,415	5,918	3,305	4,000	3
	2019	23,923	8,078	1,411	5,930	3,864	4,637	3
	2020	25,688	8,085	1,413	5,942	4,673	5,573	3
	2021	26,218	7,986	1,418	5,851	4,948	6,012	3
Bosnia and Herzegovina	2018	4,440	2,135	2,236	..	51	18	..
	2019	4,485	2,137	2,239	..	87	22	..
	2020	4,507	2,136	2,249	..	87	35	..
	2021	4,594	2,146	2,257	..	135	56	..
Bulgaria	2018	11,530	4,220	3,379	2,008	699	1,033	191
	2019	11,429	4,097	3,378	2,006	703	1,044	*200
	2020	11,195	3,806	3,376	2,006	703	1,100	*203
	2021	11,411	3,854	3,369	2,006	704	1,275	*203
Croatia	2018	5,006	2,142	2,200	..	586	68	10
	2019	4,712	1,771	2,200	..	646	85	10
	2020	4,662	1,543	2,200	..	801	109	10
	2021	4,873	1,537	2,201	..	987	138	10
Czechia	2018	22,302	13,350	2,264	4,290	316	2,082	..
	2019	22,036	13,031	2,265	4,290	339	2,111	..
	2020	21,451	12,384	2,265	4,290	339	2,172	..
	2021	21,035	11,874	2,285	4,290	339	2,246	..
Denmark	2018	14,983	7,863	7	..	6,115	998	..
	2019	14,970	7,772	7	..	6,111	1,080	..
	2020	15,362	7,783	7	..	6,267	1,304	..
	2021	16,501	7,769	7	..	7,021	1,704	..
Estonia	2018	2,819	2,470	7	..	310	32	..
	2019	2,746	2,303	6	..	316	121	..
	2020	2,738	2,205	8	..	317	208	..
	2021	2,409	1,693	6	..	315	395	..
Faeroe Islands	2018	121	69	38	..	14	..	..
	2019	131	78	38	..	14	0	..
	2020	168	115	38	..	14	0	..
	2021	*168	*115	*38	..	*14	0	0
Finland	2018	17,018	8,901	3,152	2,784	2,041	140	..
	2019	17,352	8,895	3,157	2,794	2,284	222	..
	2020	17,301	8,439	3,164	2,794	2,586	318	..
	2021	17,942	8,295	3,171	2,794	3,257	425	..
France	2018	135,086	21,422	25,727	63,130	14,900	9,672	234
	2019	136,254	19,791	25,868	63,130	16,427	10,808	230
	2020	136,943	19,791	25,955	61,400	17,514	12,056	228
	2021	141,904	20,435	26,291	61,400	18,740	14,810	227
Germany	2018	227,945	102,180	10,684	10,799	58,721	45,158	403
	2019	231,489	100,524	10,733	9,525	60,742	48,914	1,051
	2020	233,726	98,311	10,808	8,113	62,201	53,671	622
	2021	242,105	99,241	10,844	8,113	63,833	59,373	701
Gibraltar	2018	*43	*43	..	..	..	..	0
	2019	*50	*50	..	..	..	..	0
	2020	*50	*50	..	..	..	..	0
	2021	*50	*50	..	..	..	..	0

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
1,716	1,288	428	..	23,921	5,244	14,088	..	4,589
2,220	1,784	435	..	23,682	4,593	14,162	..	4,927
2,264	1,829	435	..	24,078	4,609	14,199	..	5,270
2,368	1,933	434	..	25,015	4,510	14,314	..	6,191
969	899	2	68	9,182	8,909	95	..	178
977	897	2	78	9,206	8,923	95	..	188
1,010	927	2	81	10,329	8,874	94	1,170	191
*1,011	*927	*2	*82	*10,331	*8,874	*94	*1,170	*193
5,448	1,418	..	4,030	17,279	6,667	1,415	5,918	3,278
6,281	1,616	..	4,666	17,641	6,463	1,411	5,930	3,838
7,284	1,681	..	5,603	18,404	6,404	1,413	5,942	4,646
7,723	1,704	..	6,019	18,495	6,282	1,418	5,851	4,945
70	70	..	..	4,370	2,065	2,236	..	69
71	71	..	..	4,414	2,066	2,239	..	109
70	70	..	..	4,437	2,066	2,249	..	122
78	78	..	..	4,516	2,068	2,257	..	191
425	234	..	191	11,105	3,986	3,379	2,008	1,732
*361	161	..	*200	11,068	3,936	3,378	2,006	1,748
*358	155	..	*203	10,836	3,651	3,376	2,006	1,803
*374	171	..	*203	11,037	3,683	3,369	2,006	1,979
165	162	3	..	4,841	1,980	2,197	..	664
165	162	3	..	4,547	1,609	2,197	..	741
164	162	2	..	4,498	1,381	2,197	..	920
140	138	2	..	4,733	1,400	2,198	..	1,135
1,928	1,745	183	..	20,373	11,605	2,081	4,290	2,398
1,925	1,741	184	..	20,111	11,290	2,081	4,290	2,450
1,821	1,636	184	..	19,630	10,748	2,081	4,290	2,511
1,789	1,605	184	..	19,246	10,269	2,101	4,290	2,586
1,639	641	..	998	13,345	7,223	7	..	6,115
1,650	570	..	1,080	13,320	7,202	7	..	6,111
1,877	573	..	1,304	13,485	7,211	7	..	6,267
2,270	566	..	1,704	14,231	7,203	7	..	7,021
26	25	..	1	2,793	2,445	7	..	341
24	23	..	1	2,722	2,280	6	..	436
24	23	..	1	2,714	2,182	8	..	524
79	23	..	56	2,330	1,670	6	..	654
..	..	..	..	121	69	38	..	14
..	..	..	..	131	78	38	..	14
..	..	..	..	168	115	38	..	14
..	..	..	..	*168	*115	*38	..	*15
2,364	2,038	189	137	14,654	6,863	2,963	2,784	2,044
2,458	2,035	208	215	14,894	6,860	2,949	2,794	2,291
2,522	2,006	205	311	14,779	6,433	2,959	2,794	2,593
2,540	1,940	182	418	15,402	6,355	2,989	2,794	3,264
7,683	4,587	185	2,911	127,403	16,836	25,542	63,130	21,895
8,210	4,725	194	3,290	128,045	15,066	25,674	63,130	24,175
8,610	4,666	194	3,750	128,333	15,125	25,760	61,400	26,048
8,218	3,620	195	4,404	133,686	16,816	26,097	61,400	29,374
11,138	10,879	32	227	216,807	91,301	10,652	10,799	104,055
11,169	10,954	35	180	220,320	89,570	10,698	9,525	110,527
11,151	10,954	35	162	222,575	87,357	10,773	8,113	116,332
11,242	11,063	35	144	230,863	88,178	10,809	8,113	123,763
..	..	..	..	*43	*43	..	..	0
..	..	..	..	*50	*50	..	..	0
..	..	..	..	*50	*50	..	..	0
..	..	..	..	*50	*50	..	..	0

Table 31

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Greece	2018	19,581	10,643	3,409	..	2,877	2,652	..
	2019	20,478	10,643	3,412	..	3,589	2,834	..
	2020	20,795	9,971	3,417	..	4,119	3,288	..
	2021	20,716	8,368	3,421	..	4,649	4,277	..
Guernsey	2018	*132	*132	..	..	..	0	..
	2019	*132	*132	..	..	..	0	..
	2020	*132	*132	..	..	..	0	..
	2021	*133	*132	..	..	..	0	..
Hungary	2018	9,286	6,118	57	2,013	329	728	41
	2019	9,994	6,159	58	2,013	323	1,400	41
	2020	10,710	6,145	58	2,013	323	2,131	40
	2021	11,574	6,155	60	2,027	324	2,968	40
Iceland	2018	2,973	116	2,099	..	2	..	756
	2019	2,979	116	2,104	..	2	..	756
	2020	2,989	116	2,114	..	2	..	756
	2021	2,999	126	2,114	..	2	..	756
Ireland	2018	10,987	6,752	529	..	3,674	32	..
	2019	11,130	6,417	529	..	4,126	57	..
	2020	11,242	6,316	529	..	4,307	90	..
	2021	11,142	6,139	529	..	4,339	135	..
Isle of Man	2018	187	186	1	..	..	..	..
	2019	184	183	1	..	..	..	..
	2020	184	183	1	..	..	..	..
	2021	184	183	1	..	..	..	..
Italy	2018	115,221	61,276	22,499	..	10,230	20,108	1,108
	2019	116,435	61,284	22,541	..	10,679	20,865	1,066
	2020	116,383	60,106	22,695	..	10,871	21,650	1,062
	2021	117,160	59,496	22,750	..	11,254	22,594	1,066
Jersey	2018	72	72	..	..	..	..	..
	2019	*72	*72	..	..	..	..	..
	2020	*72	*72	..	..	..	..	..
	2021	*72	*72	..	..	..	..	..
Kosovo	2018	1,409	1,288	80	..	34	7	..
	2019	1,417	1,288	85	..	34	10	..
	2020	1,442	1,288	110	..	34	10	..
	2021	1,446	1,288	110	..	34	14	..
Latvia	2018	2,915	1,270	1,565	..	78	2	..
	2019	2,938	1,270	1,587	..	78	3	..
	2020	2,944	1,274	1,586	..	78	5	..
	2021	2,939	1,268	1,587	..	77	7	..
Liechtenstein	2018	*26	*1	*10	..	..	*15	..
	2019	*27	*1	*10	..	..	*16	..
	2020	*29	*1	*10	..	..	*18	..
	2021	*29	*1	*10	..	..	*18	..
Lithuania	2018	3,354	1,837	877	..	533	82	25
	2019	3,378	1,839	877	..	534	103	25
	2020	3,491	1,885	877	..	540	164	25
	2021	3,709	1,881	877	..	671	255	25
Luxembourg	2018	1,712	128	1,330	..	123	131	..
	2019	1,775	149	1,330	..	136	160	..
	2020	1,808	138	1,331	..	153	187	..
	2021	1,878	134	1,331	..	136	277	..
Malta	2018	727	595	..	..	0	132	..
	2019	750	595	..	..	0	155	..
	2020	783	595	..	..	0	188	..
	2021	800	595	..	..	0	206	..

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
568	568	..	..	19,014	10,076	3,409	..	5,529
568	568	..	..	19,910	10,076	3,412	..	6,423
568	568	..	..	20,227	9,404	3,417	..	7,407
568	568	..	..	20,148	7,801	3,421	..	8,927
..	..	..	..	*132	*132	..	..	0
..	..	..	..	*132	*132	..	..	0
..	..	..	..	*132	*132	..	..	0
..	..	..	..	*133	*132	..	..	0
735	251	..	484	8,551	5,867	57	2,013	614
1,025	286	..	739	8,969	5,873	58	2,013	1,025
1,316	274	..	1,042	9,394	5,871	58	2,013	1,452
1,733	282	..	1,451	9,841	5,873	60	2,027	1,881
..	..	..	..	2,973	116	2,099	..	758
..	..	..	..	2,979	116	2,104	..	758
..	..	..	..	2,989	116	2,114	..	758
..	..	..	..	2,999	126	2,114	..	758
411	356	..	55	10,576	6,396	529	..	3,651
448	364	..	84	10,682	6,053	529	..	4,100
483	367	..	116	10,758	5,949	529	..	4,280
535	371	..	164	10,607	5,768	529	..	4,310
8	8	..	..	180	179	1	..	..
8	8	..	..	176	175	1	..	..
8	8	..	..	176	175	1	..	..
8	8	..	..	176	175	1	..	..
5,522	5,347	105	69	109,699	55,929	22,393	..	31,377
5,432	5,256	106	70	111,003	56,028	22,435	..	32,541
5,166	4,991	91	84	111,218	55,115	22,604	..	33,498
20,461	5,360	96	15,005	96,699	54,137	22,654	..	19,908
22	22	..	..	50	50	..	..	..
22	22	..	..	*50	*50	..	..	..
22	22	..	..	*50	*50	..	..	..
22	22	..	..	*50	*50	..	..	..
..	..	..	..	1,409	1,288	80	..	40
0	..	..	0	1,417	1,288	85	..	44
..	..	..	..	1,442	1,288	110	..	44
..	..	..	..	1,446	1,288	110	..	48
34	30	2	2	2,881	1,239	1,563	..	78
34	29	1	3	2,904	1,241	1,585	..	78
38	32	2	5	2,905	1,243	1,585	..	78
38	29	2	7	2,902	1,239	1,586	..	77
..	..	..	..	*26	*1	*10	..	*15
..	..	..	..	*27	*1	*10	..	*16
..	..	..	..	*29	*1	*10	..	*18
..	..	..	..	*29	*1	*10	..	*18
280	255	..	25	3,074	1,582	877	..	615
282	257	..	25	3,096	1,582	877	..	637
282	257	..	25	3,209	1,628	877	..	704
281	256	..	25	3,428	1,625	877	..	926
185	52	2	131	1,527	76	1,329	..	123
215	53	2	160	1,560	95	1,329	..	136
232	43	2	187	1,576	95	1,329	..	153
233	44	2	187	1,645	90	1,329	..	227
137	5	..	132	590	590	..	..	..
160	5	..	155	590	590	..	..	..
193	5	..	188	590	590	..	..	..
210	5	..	206	590	590	..	..	..

Table 31

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Montenegro	2018	999	225	652	..	118	3	..
	2019	1,001	225	652	..	118	5	..
	2020	1,047	225	697	..	118	7	..
	2021	1,047	225	697	..	118	7	..
Netherlands (Kingd. of the)	2018	35,110	25,505	37	485	4,393	4,608	82
	2019	37,135	24,821	37	485	4,484	7,226	82
	2020	42,421	24,066	37	485	6,648	11,108	76
	2021	47,252	23,873	37	512	7,769	14,911	150
North Macedonia	2018	1,839	1,111	674	..	37	17	..
	2019	1,844	1,112	678	..	37	17	..
	2020	1,850	1,112	684	..	37	17	..
	2021	*1,923	*1,112	689	..	37	85	..
Norway	2018	35,416	1,073	32,530	..	1,710	68	35
	2019	36,940	1,074	32,797	..	2,914	120	35
	2020	39,026	1,069	33,732	..	4,030	160	35
	2021	40,307	889	34,075	..	5,049	205	89
Poland	2018	43,046	34,314	2,391	..	5,766	562	12
	2019	43,440	33,638	2,397	..	5,838	1,539	28
	2020	49,368	36,715	2,400	..	6,298	3,955	0
	2021	52,834	36,053	2,398	..	6,967	7,416	0
Portugal	2018	21,186	8,080	7,236	..	5,172	667	30
	2019	21,575	8,160	7,262	..	5,223	901	29
	2020	21,655	8,163	7,241	..	5,122	1,100	29
	2021	21,344	6,987	7,255	..	5,427	1,646	29
Republic of Moldova	2018	478	425	16	..	34	3	..
	2019	486	430	16	..	35	5	..
	2020	490	428	16	..	41	4	..
	2021	528	432	16	..	67	12	..
Romania	2018	23,552	11,022	6,701	1,411	3,032	1,386	..
	2019	20,899	8,366	6,686	1,411	3,038	1,398	..
	2020	20,584	8,126	6,652	1,411	3,013	1,383	..
	2021	18,799	6,316	6,662	1,411	3,015	1,394	..
Russian Federation	2018	271,600	190,215	51,333	29,140	161	678	74
	2019	302,074	217,060	52,757	30,300	*600	1,276	81
	2020	*302,358	*217,060	52,889	*30,300	*600	1,428	81
	2021	*302,665	*217,060	52,963	*30,300	*600	1,661	81
Serbia	2018	7,632	4,351	3,043	..	227	11	..
	2019	7,868	4,385	3,074	..	398	11	..
	2020	7,884	4,392	3,082	..	398	12	..
	2021	7,902	4,407	3,085	..	398	12	..
Slovakia	2018	7,625	2,651	2,528	1,940	4	471	31
	2019	7,724	2,639	2,527	1,940	4	590	24
	2020	7,707	2,652	2,529	1,971	4	535	16
	2021	7,490	2,399	2,531	2,003	4	537	16
Slovenia	2018	3,796	1,514	1,344	688	3	247	..
	2019	3,832	1,512	1,351	688	3	278	..
	2020	3,929	1,516	1,352	688	3	370	..
	2021	4,080	1,576	1,352	688	3	461	..
Spain	2018	103,790	46,061	20,080	7,117	23,405	7,068	59
	2019	109,688	45,697	20,114	7,117	25,590	11,111	59
	2020	108,323	41,771	20,117	7,117	26,819	12,440	59
	2021	111,014	39,778	20,132	7,117	27,908	16,019	59
Sweden	2018	41,223	8,408	16,431	8,656	7,300	428	..
	2019	42,824	8,343	16,462	8,624	8,681	714	..
	2020	43,672	8,406	16,406	7,777	9,976	1,107	..
	2021	44,753	7,725	16,407	6,899	12,116	1,606	..

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	999	225	652	..	121
..	..	..	..	1,001	225	652	..	123
..	..	..	..	1,047	225	697	..	125
..	..	..	..	1,047	225	697	..	125
10,144	5,444	..	4,700	24,965	20,061	37	485	4,383
12,353	5,405	..	6,948	24,782	19,416	37	485	4,844
15,799	5,855	..	9,944	26,622	18,211	37	485	7,888
19,747	6,569	..	13,178	27,504	17,304	37	512	9,652
..	..	..	..	1,839	1,111	674	..	54
..	..	..	..	1,844	1,112	678	..	54
..	..	..	..	1,850	1,112	684	..	54
..	..	..	..	*1,923	*1,112	689	..	122
620	552	..	68	34,796	521	32,530	..	1,745
672	552	..	120	36,268	522	32,797	..	2,949
717	557	..	160	38,309	512	33,732	..	4,065
655	450	..	205	39,652	439	34,075	..	5,138
3,669	3,094	1	574	39,377	31,220	2,391	..	5,766
4,680	3,112	1	1,567	38,760	30,526	2,397	..	5,838
7,033	3,077	1	3,955	42,336	33,638	2,399	..	6,298
10,532	3,116	1	7,416	42,302	32,937	2,397	..	6,967
2,236	1,872	6	358	18,950	6,208	7,230	..	5,511
2,409	1,879	6	524	19,166	6,281	7,256	..	5,629
2,499	1,884	6	609	19,156	6,278	7,235	..	5,642
2,630	1,889	6	735	18,714	5,098	7,249	..	6,367
120	95	..	25	358	330	16	..	12
123	100	..	23	363	330	16	..	17
118	98	..	20	372	330	16	..	26
149	101	..	48	379	330	16	..	32
2,985	2,150	83	752	20,568	8,873	6,618	1,411	3,666
2,261	1,696	83	482	18,638	6,670	6,603	1,411	3,954
2,555	1,817	87	652	18,029	6,309	6,566	1,411	3,743
2,670	1,854	87	730	16,128	4,463	6,576	1,411	3,679
25,623	25,161	462	..	245,977	165,054	50,871	29,140	913
*25,622	*25,160	*462	..	276,452	191,900	52,295	30,300	1,957
*25,622	*25,160	*462	..	*276,736	*191,900	52,427	*30,300	2,109
*25,622	*25,160	*462	..	*277,043	*191,900	52,501	*30,300	2,342
118	118	..	..	7,514	4,233	3,043	..	238
142	142	..	..	7,727	4,244	3,074	..	409
145	145	..	..	7,739	4,248	3,082	..	410
150	150	..	..	7,752	4,258	3,085	..	410
1,107	769	32	306	6,518	1,882	2,496	1,940	200
1,201	766	33	402	6,523	1,873	2,494	1,940	216
1,150	751	33	366	6,557	1,901	2,496	1,971	189
1,136	741	33	362	6,354	1,658	2,498	2,003	195
403	47	116	240	3,393	1,467	1,228	688	10
435	44	121	271	3,397	1,468	1,230	688	11
529	46	122	362	3,400	1,471	1,230	688	11
619	47	122	450	3,462	1,529	1,230	688	14
6,571	6,098	369	104	97,219	39,963	19,711	7,117	30,428
6,483	5,979	369	135	103,205	39,718	19,745	7,117	36,625
6,575	5,953	369	253	101,747	35,818	19,748	7,117	39,065
7,123	5,929	369	825	103,891	33,849	19,763	7,117	43,161
1,448	1,430	18	..	39,775	6,978	16,413	8,656	7,728
1,411	1,393	18	..	41,413	6,950	16,444	8,624	9,395
1,386	1,386	0	..	42,286	7,020	16,406	7,777	11,083
1,460	1,460	0	..	43,293	6,265	16,407	6,899	13,722

Table 31

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Switzerland	2018	22,063	940	15,541	3,333	75	2,173	..
	2019	22,423	943	15,574	3,333	75	2,498	..
	2020	22,941	954	15,594	3,333	87	2,973	..
	2021	23,279	965	15,612	2,960	87	3,655	..
Ukraine	2018	51,508	29,753	6,243	13,835	476	1,201	..
	2019	51,444	28,535	6,325	13,835	796	1,953	..
	2020	58,257	30,739	4,819	13,835	1,402	7,462	..
	2021	59,351	30,739	4,823	13,835	1,761	8,193	..
United Kingdom	2018	106,507	57,784	4,777	9,261	21,606	13,059	20
	2019	103,207	51,912	4,780	9,261	23,887	13,345	22
	2020	102,729	50,623	4,786	9,261	24,458	13,579	22
	2021	103,283	50,615	4,791	8,141	25,748	13,965	22
Latin America & Carib.	**2018**	**453,043**	**216,877**	**191,368**	**5,379**	**24,736**	**9,356**	**5,328**
	2019	**475,600**	**222,704**	**196,866**	**5,466**	**29,280**	**15,707**	**5,577**
	2020	**488,872**	**226,215**	**197,825**	**5,466**	**33,057**	**20,678**	**5,632**
	2021	**515,082**	**236,179**	**199,916**	**5,466**	**39,087**	**28,789**	**5,646**
Anguilla	2018	25	24	..	..	..	1	..
	2019	26	24	..	..	..	2	..
	2020	*26	*24	..	..	..	2	..
	2021	*26	*24	..	..	..	*2	..
Antigua and Barbuda	2018	91	82	..	..	..	9	..
	2019	90	79	..	..	..	10	..
	2020	92	79	..	..	4	9	..
	2021	144	128	..	..	4	12	..
Argentina	2018	42,128	28,122	11,308	1,755	752	191	..
	2019	43,272	28,137	11,330	1,755	1,611	439	..
	2020	45,565	29,062	11,364	1,755	2,625	759	..
	2021	46,602	29,129	11,365	1,755	3,293	1,060	..
Aruba	2018	295	258	..	..	30	8	..
	2019	295	258	..	..	30	8	..
	2020	295	258	..	..	30	8	..
	2021	295	258	..	..	30	8	..
Bahamas	2018	577	576	..	..	..	1	..
	2019	578	576	..	..	..	2	..
	2020	595	593	..	..	..	2	..
	2021	*595	*593	..	..	..	2	..
Barbados	2018	291	267	..	..	..	24	..
	2019	307	267	..	..	..	40	..
	2020	317	267	..	..	..	50	..
	2021	319	252	..	..	..	67	..
Belize	2018	165	113	51	..	..	0	..
	2019	177	122	55	..	..	0	..
	2020	173	118	55	..	..	0	..
	2021	176	117	55	..	..	4	..
Bolivia (Plur. State of)	2018	2,771	1,983	690	..	27	71	..
	2019	3,704	2,797	759	..	27	121	..
	2020	3,713	2,805	759	..	27	122	..
	2021	4,137	3,076	760	..	129	172	..
Bonaire, St Eustatius, Saba	2018	*36	*19	..	..	11	6	..
	2019	*38	*20	..	..	11	7	..
	2020	*38	*20	..	..	11	7	..
	2021	*38	*20	..	..	11	7	..
Brazil	2018	163,509	40,561	104,198	1,990	14,400	2,360	..
	2019	172,280	41,281	109,155	1,990	15,388	4,466	..
	2020	179,517	43,153	109,294	1,990	17,146	7,934	..
	2021	*188,788	*44,283	*109,296	*1,990	*21,019	*12,200	..

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
3,607	683	751	2,173	18,456	257	14,791	3,333	75
3,910	683	729	2,498	18,513	259	14,845	3,333	75
4,511	686	852	2,973	18,430	268	14,742	3,333	87
5,051	678	718	3,655	18,228	287	14,894	2,960	87
2,139	2,091	5	43	49,369	27,662	6,238	13,835	1,634
2,171	2,071	..	100	49,273	26,464	6,325	13,835	2,649
*2,206	*2,075	..	*131	56,051	28,664	4,819	13,835	8,733
*2,206	*2,075	..	*131	57,145	28,664	4,823	13,835	9,823
25,444	11,656	476	13,313	81,062	46,128	4,301	9,261	21,372
25,990	12,381	479	13,129	77,217	39,531	4,301	9,261	24,125
25,453	12,225	488	12,740	77,276	38,398	4,298	9,261	25,319
25,931	12,329	493	13,109	77,352	38,286	4,299	8,141	26,627
56,721	**45,736**	**6,055**	**4,929**	**396,322**	**171,140**	**185,312**	**5,379**	**34,491**
56,810	**43,819**	**6,042**	**6,948**	**418,791**	**178,886**	**190,824**	**5,466**	**43,615**
61,081	**44,711**	**6,090**	**10,280**	**427,792**	**181,503**	**191,735**	**5,466**	**49,087**
65,820	**45,573**	**6,089**	**14,158**	**449,262**	**190,605**	**193,827**	**5,466**	**59,363**
..	..	..	..	25	24	..	..	1
..	..	..	..	26	24	..	..	2
..	..	..	..	*26	*24	..	..	2
..	..	..	..	*26	*24	..	..	*2
*1	*1	..	..	90	81	..	..	9
*1	*1	..	..	89	78	..	..	10
*1	*1	..	..	91	78	..	..	13
*1	*1	..	..	143	127	..	..	16
3,614	3,592	20	2	38,514	24,530	11,288	1,755	941
3,614	3,592	20	2	39,658	24,545	11,310	1,755	2,048
3,614	3,592	20	2	41,951	25,470	11,344	1,755	3,382
3,614	3,592	20	2	42,988	25,537	11,345	1,755	4,351
..	..	..	..	295	258	..	..	38
..	..	..	..	295	258	..	..	38
..	..	..	..	295	258	..	..	38
..	..	..	..	295	258	..	..	38
*39	*39	..	..	538	537	..	..	1
*39	*39	..	..	539	537	..	..	2
*39	*39	..	..	556	554	..	..	2
*39	*39	..	..	*556	*554	..	..	2
*10	*10	..	..	281	257	..	..	24
*10	*10	..	..	297	257	..	..	40
*10	*10	..	..	307	257	..	..	50
*10	*10	..	..	309	242	..	..	67
*45	*45	..	..	120	68	51	..	0
*45	*45	..	..	132	77	55	..	0
*41	*41	..	..	132	77	55	..	0
*41	*41	..	..	135	76	55	..	4
329	328	2	..	2,442	1,656	689	..	98
329	328	2	..	3,375	2,470	758	..	148
328	328	1	..	3,384	2,477	758	..	149
154	153	*1	..	3,984	2,924	759	..	301
..	..	..	..	*36	*19	..	..	17
..	..	..	..	*38	*20	..	..	18
..	..	..	..	*38	*20	..	..	18
..	..	..	..	*38	*20	..	..	18
25,498	19,925	5,061	512	138,011	20,636	99,137	1,990	16,248
26,482	20,129	5,068	1,285	145,798	21,152	104,087	1,990	18,569
29,987	20,283	5,158	4,546	149,530	22,870	104,136	1,990	20,534
*33,462	*20,283	5,160	*8,019	*155,326	*24,000	*104,136	*1,990	*25,200

Table 31

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
British Virgin Islands	2018	60	59	..	..	*1	1	..
	2019	61	59	..	..	1	1	..
	2020	*61	*59	..	..	1	1	..
	2021	*61	*59	..	..	1	1	..
Cayman Islands	2018	161	161	..	..	..	..	..
	2019	161	161	..	..	..	..	..
	2020	161	161	..	..	..	..	..
	2021	161	161	..	..	..	..	..
Chile	2018	27,534	16,877	6,627	..	1,692	2,298	40
	2019	27,644	16,544	6,341	..	1,999	2,720	40
	2020	30,001	17,564	6,818	..	2,293	3,287	40
	2021	32,452	17,752	6,797	..	3,140	4,712	51
Colombia	2018	18,889	6,854	11,931	..	18	*86	0
	2019	19,026	6,869	12,014	..	18	125	0
	2020	18,778	6,754	11,945	..	18	61	..
	2021	19,102	6,754	11,945	..	60	343	..
Costa Rica	2018	3,646	628	2,359	..	408	44	207
	2019	3,624	549	2,343	..	411	59	262
	2020	3,607	554	2,331	..	394	66	262
	2021	3,677	554	2,396	..	394	72	262
Cuba	2018	6,661	6,458	64	..	*36	*103	..
	2019	6,508	6,285	64	..	*41	*118	..
	2020	6,660	6,374	65	..	*58	*164	..
	2021	6,767	6,461	65	..	*63	*179	..
Curaçao	2018	*231	*172	..	..	47	12	..
	2019	*231	*172	..	..	47	12	..
	2020	232	172	..	..	47	13	..
	2021	*232	*172	..	..	*47	*13	..
Dominica	2018	42	35	7	..	0	0	..
	2019	42	35	7	..	0	0	..
	2020	42	35	7	..	0	0	..
	2021	42	35	7	..	0	0	..
Dominican Republic	2018	5,276	4,271	619	..	183	203	..
	2019	6,010	4,995	623	..	188	204	..
	2020	*5,716	*4,451	623	..	370	271	..
	2021	*5,795	*4,380	623	..	370	421	..
Ecuador	2018	8,048	2,964	5,036	..	21	27	..
	2019	8,073	2,978	5,047	..	21	27	..
	2020	8,095	2,983	5,064	..	21	27	..
	2021	8,101	2,981	5,072	..	21	27	..
El Salvador	2018	2,003	1,057	575	..	..	167	204
	2019	2,241	1,057	574	..	..	406	204
	2020	2,346	1,058	574	..	36	474	204
	2021	2,427	1,058	572	..	54	539	204
Falkland Is. (Malvinas)	2018	9	7	..	..	2	0	..
	2019	9	7	..	..	2	0	..
	2020	*9	*7	..	..	2	0	..
	2021	*9	*7	..	..	2	0	..
Grenada	2018	57	54	..	..	0	3	..
	2019	58	54	..	..	0	3	..
	2020	56	52	..	..	0	4	..
	2021	59	56	..	..	0	4	..
Guatemala	2018	3,499	1,770	1,492	..	107	92	39
	2019	4,042	2,234	1,560	..	107	93	49
	2020	4,162	2,332	1,577	..	107	93	52
	2021	4,118	2,284	1,584	..	107	93	49

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	60	59	..	..	2
..	..	..	..	61	59	..	..	2
..	..	..	..	*61	*59	..	..	2
..	..	..	..	*61	*59	..	..	2
..	..	..	..	161	161	..	..	..
..	..	..	..	161	161	..	..	..
..	..	..	..	161	161	..	..	..
..	..	..	..	161	161	..	..	..
4,241	4,225	9	7	23,293	12,652	6,619	..	4,023
3,357	3,310	9	38	24,288	13,234	6,333	..	4,721
4,532	4,449	50	33	25,469	13,115	6,768	..	5,586
4,532	4,449	50	33	27,920	13,303	6,747	..	7,870
1,624	1,530	94	..	17,265	5,324	11,837	..	*104
*1,624	*1,530	*94	..	17,402	5,339	11,920	..	144
*1,550	*1,530	..	20	17,228	5,224	11,945	..	59
*1,550	*1,530	..	20	17,552	5,224	11,945	..	383
95	56	..	39	3,551	572	2,359	..	620
128	75	..	53	3,495	474	2,343	..	678
141	80	..	61	3,466	474	2,331	..	661
147	80	..	67	3,531	474	2,396	..	661
553	553	..	..	6,108	5,905	64	..	*139
459	459	..	..	6,049	5,826	64	..	*159
565	565	..	..	6,095	5,809	65	..	*222
569	569	..	..	6,198	5,892	65	..	*242
*55	*55	..	..	*176	*118	..	..	58
*55	*55	..	..	*176	*118	..	..	58
55	55	..	..	178	118	..	..	60
*55	*55	..	..	*178	*118	..	..	*60
*15	*15	..	..	27	20	7	..	1
*15	*15	..	..	27	20	7	..	1
*15	*15	..	..	27	20	7	..	1
*15	*15	..	..	27	20	7	..	1
1,306	1,189	2	116	3,971	3,082	617	..	271
1,371	1,255	..	116	4,639	3,740	623	..	276
*856	*740	..	*116	*4,859	*3,711	623	..	525
*821	*705	..	*116	*4,973	*3,675	623	..	675
1,317	1,090	227	..	6,731	1,874	4,809	..	48
1,346	1,118	227	..	6,727	1,860	4,819	..	48
1,332	1,094	238	..	6,764	1,889	4,826	..	48
1,377	1,139	238	..	6,724	1,841	4,835	..	48
429	300	22	107	1,574	757	553	..	264
533	300	21	212	1,708	757	553	..	398
577	300	21	255	1,769	757	553	..	459
630	301	19	310	1,797	757	553	..	487
..	..	..	..	9	7	..	..	2
..	..	..	..	9	7	..	..	2
..	..	..	..	*9	*7	..	..	2
..	..	..	..	*9	*7	..	..	2
3	0	..	3	54	54	..	..	..
4	0	..	3	54	54	..	..	..
4	0	..	4	52	52	..	..	..
4	0	..	4	55	55	..	..	..
652	647	5	..	2,846	1,122	1,487	..	237
*655	*650	*5	..	3,387	1,584	1,555	..	249
*655	*650	*5	..	3,507	1,682	1,572	..	252
*655	*650	*5	..	3,463	1,634	1,579	..	250

Table 31

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Guyana	2018	348	340	..	..	0	8	..
	2019	335	327	..	..	0	8	..
	2020	337	329	..	..	0	8	..
	2021	*340	*332	..	..	0	*8	..
Haiti	2018	*352	*290	61	..	0	1	..
	2019	*471	*390	78	..	0	3	..
	2020	*471	*390	78	..	0	3	..
	2021	*471	*390	78	..	0	3	..
Honduras	2018	2,740	1,254	715	..	225	511	35
	2019	2,882	1,308	731	..	235	570	39
	2020	3,011	1,318	840	..	235	578	39
	2021	3,028	1,318	853	..	235	578	44
Jamaica	2018	1,045	874	29	..	102	40	..
	2019	*1,150	*962	29	..	*102	57	..
	2020	*1,156	*968	*29	..	*102	*57	..
	2021	*1,156	*968	*29	..	*102	*57	..
Mexico	2018	87,131	62,010	12,628	1,634	4,180	2,081	4,598
	2019	94,805	63,521	13,076	1,721	6,541	5,166	4,780
	2020	95,982	63,521	13,301	1,721	6,995	5,612	4,832
	2021	105,310	71,083	13,303	1,721	7,468	6,903	4,832
Montserrat	2018	5	5	..	..	..	..	..
	2019	6	5	..	..	..	0	..
	2020	6	5	..	..	..	0	..
	2021	6	5	..	..	..	1	..
Nicaragua	2018	1,482	985	142	..	186	14	155
	2019	1,620	1,107	157	..	186	16	153
	2020	1,620	1,107	157	..	186	16	153
	2021	1,615	1,101	159	..	186	16	153
Panama	2018	4,175	1,917	1,779	..	270	209	..
	2019	4,142	1,827	1,821	..	270	223	..
	2020	4,157	1,827	1,821	..	270	238	..
	2021	4,089	1,534	1,821	..	270	464	..
Paraguay	2018	8,761	1	8,760	..	..	..	..
	2019	8,761	1	8,760	..	..	..	..
	2020	8,761	1	8,760	..	..	..	..
	2021	8,761	1	8,760	..	..	..	..
Peru	2018	15,214	9,154	5,363	..	372	325	..
	2019	15,162	9,062	5,397	..	372	331	..
	2020	15,229	9,072	5,417	..	409	331	..
	2021	15,382	9,131	5,514	..	409	329	..
Puerto Rico	2018	5,830	5,466	99	..	101	165	..
	2019	6,173	5,808	99	..	102	165	..
	2020	6,107	5,742	99	..	102	165	..
	2021	6,107	5,742	98	..	102	*165	..
Sint Maarten (Dutch part)	2018	*92	*92	..	..	..	..	..
	2019	*96	*96	..	..	..	..	..
	2020	99	99	..	..	..	..	..
	2021	*99	*99	..	..	..	..	..
St. Kitts-Nevis	2018	71	67	..	..	2	2	..
	2019	*71	*67	..	..	2	2	..
	2020	*72	*67	..	..	2	3	..
	2021	*72	*67	..	..	2	3	..
St. Lucia	2018	91	88	..	..	..	3	..
	2019	91	88	..	..	..	3	..
	2020	91	88	..	..	..	3	..
	2021	91	88	..	..	..	3	..

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
51	51	..	..	297	289	..	..	8
42	42	..	..	293	285	..	..	8
42	42	..	..	295	287	..	..	8
*42	*42	..	..	*298	*290	..	..	*8
*102	*102	..	..	*250	*188	61	..	1
*137	*137	..	..	*333	*253	78	..	3
*137	*137	..	..	*333	*253	78	..	3
*137	*137	..	..	*333	*253	78	..	3
369	369	..	..	2,371	885	715	..	771
455	398	0	57	2,427	910	730	..	787
561	496	0	65	2,450	823	840	..	787
561	496	0	65	2,467	823	853	..	792
380	262	..	118	665	612	29	..	24
*485	*350	..	*135	*665	*612	29	..	*24
*491	*356	..	*135	*665	*612	*29	..	*24
*491	*356	..	*135	*665	*612	*29	..	*24
12,177	8,047	233	3,897	74,954	53,963	12,395	1,634	6,962
11,823	6,698	225	4,900	82,982	56,823	12,851	1,721	11,587
11,813	6,698	225	4,890	84,169	56,823	13,076	1,721	12,549
13,083	7,631	225	5,227	92,227	63,452	13,078	1,721	13,976
..	..	..	..	5	5	..	..	..
..	..	..	..	6	5	..	..	0
..	..	..	..	6	5	..	..	0
..	..	..	..	6	5	..	..	1
178	177	1	..	1,305	809	142	..	355
219	218	1	..	1,401	888	157	..	356
219	218	1	..	1,401	888	157	..	356
219	218	1	..	1,396	883	158	..	356
123	43	60	20	4,052	1,874	1,719	..	459
128	43	60	25	4,014	1,784	1,761	..	468
128	43	60	25	4,029	1,784	1,761	..	483
129	46	60	23	3,960	1,488	1,761	..	711
..	..	..	..	8,761	1	8,760	..	..
..	..	..	..	8,761	1	8,760	..	..
..	..	..	..	8,761	1	8,760	..	..
..	..	..	..	8,761	1	8,760	..	..
1,563	1,392	131	*40	13,651	7,762	5,232	..	657
1,512	1,339	131	*42	13,650	7,723	5,266	..	661
1,439	1,266	131	42	13,790	7,807	5,286	..	698
1,521	1,349	130	42	13,861	7,782	5,384	..	696
*60	*60	..	..	5,770	5,406	99	..	266
60	60	..	..	6,113	5,748	99	..	267
*60	*60	..	..	6,047	5,682	99	..	267
*60	*60	..	..	6,047	5,682	98	..	*267
..	..	..	..	*92	*92	..	..	..
..	..	..	..	*96	*96	..	..	..
..	..	..	..	99	99	..	..	..
..	..	..	..	*99	*99	..	..	..
*4	*4	..	..	67	63	..	..	4
*4	*4	..	..	*67	*63	..	..	4
*4	*4	..	..	*68	*63	..	..	5
*4	*4	..	..	*68	*63	..	..	5
..	..	..	..	91	88	..	..	3
..	..	..	..	91	88	..	..	3
..	..	..	..	91	88	..	..	3
..	..	..	..	91	88	..	..	3

Table 31

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
St. Vincent-Grenadines	2018	46	38	6	..	..	2	..
	2019	49	40	6	..	..	3	..
	2020	55	44	6	..	..	5	..
	2021	*56	*44	6	..	..	6	..
Suriname	2018	505	309	189	..	..	7	..
	2019	503	316	180	..	..	7	..
	2020	491	302	180	..	..	9	..
	2021	532	343	180	..	..	9	..
Trinidad and Tobago	2018	2,156	2,153	..	..	0	3	..
	2019	2,118	2,115	..	..	0	3	..
	2020	2,517	2,513	..	..	0	4	..
	2021	2,134	2,130	..	..	0	4	..
Turks and Caicos Islands	2018	84	84	..	..	..	0	..
	2019	91	90	..	..	..	1	..
	2020	91	90	..	..	..	1	..
	2021	92	90	..	..	..	3	..
United States Virgin Is.	2018	341	316	..	..	0	*25	..
	2019	*341	*316	..	..	0	*25	..
	2020	*342	*316	..	..	0	*26	..
	2021	*343	*316	..	..	0	*27	..
Uruguay	2018	4,902	1,603	1,538	..	1,513	248	..
	2019	4,901	1,593	1,538	..	1,516	253	..
	2020	4,905	1,593	1,538	..	1,516	258	..
	2021	4,914	1,593	1,538	..	1,516	266	..
Venezuela (Bolivar. Rep.)	2018	31,667	16,460	15,101	..	50	6	50
	2019	33,338	18,107	15,123	..	50	8	50
	2020	33,117	17,886	15,123	..	50	8	50
	2021	36,360	19,210	17,042	..	50	8	50
Northern America	**2018**	**1,267,983**	**804,851**	**184,461**	**112,771**	**107,333**	**54,669**	**3,897**
	2019	**1,277,089**	**796,279**	**184,311**	**111,457**	**116,890**	**64,158**	**3,994**
	2020	**1,298,880**	**789,598**	**184,700**	**109,014**	**132,114**	**79,407**	**4,049**
	2021	**1,334,094**	**789,866**	**185,817**	**108,059**	**146,918**	**99,344**	**4,090**
Bermuda	2018	*176	*172	..	..	..	4	..
	2019	*176	*172	..	..	..	4	..
	2020	*177	*173	..	..	..	*4	..
	2021	*177	*173	..	..	..	*4	..
Canada	2018	148,464	37,549	81,570	13,338	12,816	3,095	*96
	2019	148,929	37,393	81,570	13,338	13,220	3,327	*81
	2020	150,598	39,157	81,570	12,513	13,636	3,609	*113
	2021	153,388	39,397	82,710	12,513	14,066	4,554	*148
Greenland	2018	187	*96	91	..	..	..	..
	2019	187	*96	91	..	..	..	..
	2020	187	*96	91	..	..	..	..
	2021	187	*96	91	..	..	..	..
St. Pierre-Miquelon	2018	26	26	..	..	0	..	..
	2019	26	26	..	..	0	..	..
	2020	26	26	..	..	0	..	..
	2021	26	26	..	..	0	..	..
United States	2018	1,119,130	767,009	102,800	99,433	94,517	51,570	3,801
	2019	1,127,771	758,592	102,650	98,119	103,670	60,827	3,914
	2020	1,147,892	750,146	103,039	96,501	118,478	75,794	3,936
	2021	1,180,315	750,174	103,016	95,546	132,852	94,786	3,941
Oceania	**2018**	**91,112**	**56,695**	**14,531**	**..**	**7,163**	**11,642**	**1,081**
	2019	**97,460**	**56,702**	**14,544**	**..**	**8,636**	**16,503**	**1,075**
	2020	**105,768**	**57,932**	**14,507**	**..**	**10,962**	**21,258**	**1,109**
	2021	**111,785**	**58,355**	**14,512**	**..**	**11,533**	**26,276**	**1,109**

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
0	..	..	0	45	38	6	..	2
0	..	..	0	48	40	6	..	2
2	..	..	2	53	44	6	..	3
*2	..	..	*2	*54	*44	6	..	4
285	96	189	..	220	213	..	..	7
276	96	180	..	227	220	..	..	7
276	96	180	..	215	206	..	..	9
276	96	180	..	256	247	..	..	9
*107	*107	..	..	2,049	2,046	..	..	3
*96	*96	..	..	2,022	2,019	..	..	3
*96	*96	..	..	2,421	2,417	..	..	4
*98	*98	..	..	2,036	2,032	..	..	4
..	..	..	..	84	84	..	..	0
..	..	..	..	91	90	..	..	1
..	..	..	..	91	90	..	..	1
..	..	..	..	92	90	..	..	3
*15	..	..	*15	326	316	..	..	10
*15	..	..	*15	*326	*316	..	..	10
*16	..	..	*16	*326	*316	..	..	10
*17	..	..	*17	*326	*316	..	..	10
471	417	..	53	4,432	1,186	1,538	..	1,708
478	417	..	61	4,423	1,176	1,538	..	1,709
482	417	..	65	4,423	1,176	1,538	..	1,710
490	417	..	73	4,423	1,176	1,538	..	1,710
1,011	1,010	..	1	30,656	15,450	15,101	..	105
1,013	1,010	..	3	32,325	17,097	15,123	..	105
1,013	1,010	..	3	32,104	16,876	15,123	..	105
1,013	1,010	..	3	35,347	18,200	17,042	..	105
63,661	**35,271**	**5,459**	**22,931**	**1,204,322**	**769,580**	**179,003**	**112,771**	**142,968**
67,396	**35,201**	**5,464**	**26,731**	**1,209,693**	**761,078**	**178,847**	**111,457**	**158,311**
72,985	**36,009**	**5,463**	**31,513**	**1,225,895**	**753,589**	**179,237**	**109,014**	**184,056**
78,863	**36,282**	**5,602**	**36,979**	**1,255,231**	**753,584**	**180,215**	**108,059**	**213,373**
9	5	..	4	*167	*167	..	..	..
9	5	..	4	*167	*167	..	..	..
10	6	..	*4	*167	*167	..	..	..
*10	*6	..	*4	*167	*167	..	..	..
12,437	5,699	5,175	1,563	136,027	31,850	76,395	13,338	14,444
12,530	5,685	5,175	1,670	136,399	31,708	76,395	13,338	14,958
12,946	5,954	5,175	1,817	137,652	33,203	76,395	12,513	15,541
13,221	5,989	5,303	1,929	140,167	33,408	77,407	12,513	16,839
*16	*16	..	..	171	*80	91	..	..
*16	*16	..	..	171	*80	91	..	..
*16	*16	..	..	171	*80	91	..	..
*16	*16	..	..	171	*80	91	..	..
..	..	..	..	26	26	..	..	0
..	..	..	..	26	26	..	..	0
..	..	..	..	26	26	..	..	0
..	..	..	..	26	26	..	..	0
51,200	29,552	284	21,364	1,067,930	737,457	102,517	99,433	128,524
54,842	29,496	289	25,057	1,072,930	729,097	102,360	98,119	143,353
60,013	30,033	288	29,692	1,087,879	720,113	102,750	96,501	168,515
65,616	30,272	299	35,046	1,114,699	719,902	102,717	95,546	196,534
18,857	**9,022**	**98**	**9,737**	**72,255**	**47,672**	**14,433**	**..**	**10,149**
21,222	**9,759**	**98**	**11,365**	**76,238**	**46,943**	**14,446**	**..**	**14,849**
24,118	**10,284**	**80**	**13,755**	**81,650**	**47,649**	**14,427**	**..**	**19,575**
27,855	**10,688**	**80**	**17,087**	**83,931**	**47,667**	**14,433**	**..**	**21,831**

Table 31

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	2018	47	42	..	..	..	5	..
	2019	47	42	..	..	..	5	..
	2020	*47	*42	..	..	..	5	..
	2021	*50	*45	..	..	..	*5	..
Australia	2018	77,997	51,700	8,523	..	6,409	11,365	0
	2019	84,092	51,540	8,523	..	7,881	16,147	0
	2020	92,394	52,826	8,523	..	10,207	20,838	0
	2021	98,058	53,223	8,523	..	10,555	25,757	0
Cook Islands	2018	*16	*11	..	..	..	5	..
	2019	*16	*11	..	..	..	5	..
	2020	*16	*11	..	..	..	5	..
	2021	*16	*11	..	..	..	5	..
Fiji	2018	*363	*194	138	..	*21	10	..
	2019	*363	*194	138	..	*21	10	..
	2020	*363	*194	138	..	*21	10	..
	2021	*370	*201	138	..	*21	10	..
French Polynesia	2018	314	228	47	..	0	38	..
	2019	318	227	49	..	0	41	..
	2020	321	227	49	..	0	44	..
	2021	340	243	49	..	0	48	..
Guam	2018	458	420	..	..	0	38	..
	2019	459	420	..	..	0	39	..
	2020	461	420	..	..	0	41	..
	2021	463	420	..	..	0	43	..
Kiribati	2018	*11	*8	..	..	..	3	..
	2019	*12	*9	..	..	..	3	..
	2020	*12	*9	..	..	..	*3	..
	2021	*12	*9	..	..	..	*3	..
Marshall Islands	2018	*35	*33	..	..	..	2	..
	2019	32	30	..	..	..	2	..
	2020	*32	*30	..	..	..	2	..
	2021	*32	*30	..	..	..	2	..
Micronesia (Fed. States of)	2018	*35	*32	1	..	1	2	..
	2019	*35	*32	1	..	1	2	..
	2020	42	38	1	..	1	3	..
	2021	42	38	1	..	1	3	..
Nauru	2018	*14	*13	..	..	..	1	..
	2019	*14	*13	..	..	..	1	..
	2020	18	16	..	..	..	2	..
	2021	18	16	..	..	..	2	..
New Caledonia	2018	974	811	78	..	38	48	..
	2019	1,022	811	78	..	37	97	..
	2020	1,047	811	78	..	37	121	..
	2021	1,090	810	81	..	37	162	..
New Zealand	2018	9,483	2,242	5,435	..	690	91	1,025
	2019	9,515	2,242	5,443	..	690	115	1,025
	2020	9,682	2,346	5,443	..	690	144	1,059
	2021	9,952	2,346	5,443	..	913	191	1,059
Niue	2018	*2	*2	..	..	..	0	..
	2019	*3	*2	..	..	..	1	..
	2020	*3	*2	..	..	..	*1	..
	2021	*3	*2	..	..	..	*1	..
Northern Mariana Islands	2018	*63	*63	..	..	..	..	..
	2019	*63	*63	..	..	..	..	..
	2020	*65	*63	..	..	..	*2	..
	2021	68	63	..	..	..	*5	..

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	47	42	..	..	5
..	..	..	..	47	42	..	..	5
..	..	..	..	*47	*42	..	..	5
..	..	..	..	*50	*45	..	..	*5
17,230	7,687	..	9,543	60,767	44,013	8,523	..	8,231
19,569	8,424	..	11,145	64,523	43,116	8,523	..	12,883
22,529	9,038	..	13,492	69,865	43,788	8,523	..	17,554
26,193	9,435	..	16,758	71,866	43,788	8,523	..	19,554
..	..	..	..	*16	*11	..	..	5
..	..	..	..	*16	*11	..	..	5
..	..	..	..	*16	*11	..	..	5
..	..	..	..	*16	*11	..	..	5
54	54	..	..	*309	*140	138	..	*31
54	54	..	..	*309	*140	138	..	*31
54	54	..	..	*309	*140	138	..	*31
61	61	..	..	*309	*140	138	..	*31
..	..	..	..	314	228	47	..	38
..	..	..	..	318	227	49	..	41
..	..	..	..	321	227	49	..	45
..	..	..	..	340	243	49	..	49
*12	..	..	*12	446	420	..	..	26
*14	..	..	*14	445	420	..	..	25
16	..	..	16	445	420	..	..	25
17	..	..	17	446	420	..	..	26
*1	*1	..	..	*10	*7	..	..	3
*1	*1	..	..	*11	*8	..	..	3
*1	*1	..	..	*10	*7	..	..	*3
*1	*1	..	..	*11	*8	..	..	*3
..	..	..	..	*35	*33	..	..	2
..	..	..	..	32	30	..	..	2
..	..	..	..	*32	*30	..	..	2
..	..	..	..	*32	*30	..	..	2
..	..	..	..	*35	*32	1	..	3
..	..	..	..	*35	*32	1	..	3
..	..	..	..	42	38	1	..	3
..	..	..	..	42	38	1	..	3
..	..	..	..	*14	*13	..	..	1
..	..	..	..	*14	*13	..	..	1
..	..	..	..	18	16	..	..	2
..	..	..	..	18	16	..	..	2
583	572	..	10	392	238	78	..	75
589	572	..	16	434	238	78	..	117
601	572	..	29	446	238	78	..	129
619	572	..	47	471	238	81	..	153
373	255	3	115	9,110	1,987	5,432	..	1,691
397	255	3	139	9,118	1,987	5,440	..	1,691
420	249	3	168	9,262	2,097	5,440	..	1,725
467	249	3	215	9,485	2,097	5,440	..	1,948
..	..	..	..	*2	*2	..	..	0
..	..	..	..	*3	*2	..	..	1
..	..	..	..	*3	*2	..	..	*1
..	..	..	..	*3	*2	..	..	*1
..	..	..	..	*63	*63	..	..	..
..	..	..	..	*63	*63	..	..	..
..	..	..	..	*65	*63	..	..	*2
..	..	..	..	68	63	..	..	*5

Table 31

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Palau	2018	*40	*39	..	..	..	2	..
	2019	*41	*39	..	..	..	3	..
	2020	*41	*39	..	..	..	*3	..
	2021	*41	*39	..	..	..	*3	..
Papua New Guinea	2018	*1,102	*750	295	..	..	1	56
	2019	*1,265	*919	295	..	..	1	50
	2020	1,058	748	258	..	..	*1	50
	2021	1,058	748	258	..	..	*1	50
Samoa	2018	*54	*23	13	..	1	*18	..
	2019	*56	*23	14	..	1	*18	..
	2020	*58	*24	14	..	1	*20	..
	2021	*62	*24	*17	..	*1	*20	..
Solomon Islands	2018	*35	*32	0	..	..	3	..
	2019	*35	*32	0	..	..	3	..
	2020	35	32	0	..	..	3	..
	2021	*35	*32	0	..	..	*3	..
Tonga	2018	24	18	..	..	0	6	..
	2019	25	18	..	..	1	6	..
	2020	*25	*18	..	..	2	6	..
	2021	*26	*18	..	..	1	7	..
Tuvalu	2018	5	3	..	..	..	2	..
	2019	*5	*3	..	..	..	2	..
	2020	*5	*3	..	..	..	2	..
	2021	*6	*3	..	..	..	3	..
Vanuatu	2018	31	24	1	..	3	3	..
	2019	33	25	1	..	3	3	..
	2020	33	26	1	..	3	3	..
	2021	*34	*26	1	..	3	*3	..
Wallis and Futuna Is.	2018	9	9	0	..	..	0	..
	2019	9	9	0	..	..	0	..
	2020	9	9	0	..	..	0	..
	2021	*9	*9	0	..	..	0	..

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	..	..	*38	*37	..	..	2
*2	*2	..	..	*39	*37	..	..	3
*2	*2	..	..	*39	*37	..	..	*3
*2	*2	..	..	*39	*37	..	..	*3
*601	*450	*95	56	*501	*300	200	..	1
*595	*450	*95	50	*670	*469	200	..	1
493	366	77	50	565	382	181	..	*1
493	366	77	50	565	382	181	..	*1
0	..	..	0	*54	*23	13	..	*19
0	..	..	0	*56	*23	14	..	*19
0	..	..	0	*58	*24	14	..	*21
0	..	..	0	*62	*24	*17	..	*21
1	1	..	..	*34	*31	0	..	3
1	1	..	..	*34	*31	0	..	3
1	1	..	..	34	31	0	..	3
*1	*1	..	..	*34	*31	0	..	*3
..	..	..	..	24	18	..	..	6
..	..	..	..	25	18	..	..	7
..	..	..	..	*25	*18	..	..	8
..	..	..	..	*26	*18	..	..	8
..	..	..	..	5	3	..	..	2
..	..	..	..	*5	*3	..	..	2
..	..	..	..	*5	*3	..	..	2
..	..	..	..	*6	*3	..	..	3
..	..	..	..	31	24	1	..	6
..	..	..	..	33	25	1	..	6
..	..	..	..	33	26	1	..	6
..	..	..	..	*34	*26	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 77: Utilization of installed electric generating capacity by source and region, 2021

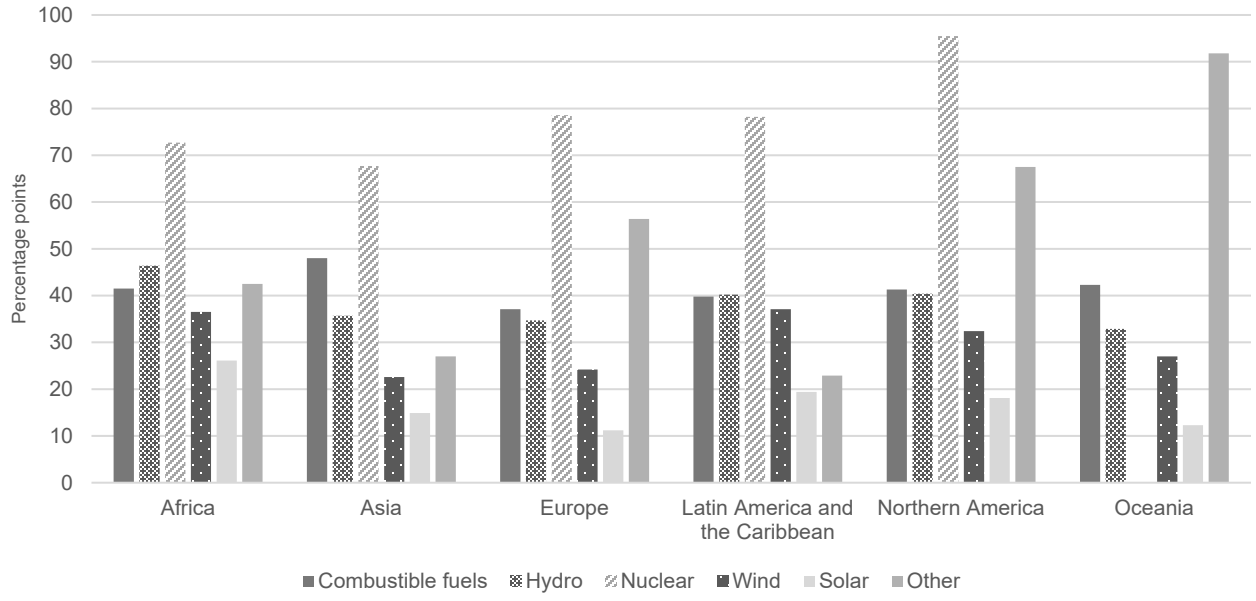


Table 32

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	**2018**	**42**	**46**	**38**	**76**	**26**	**14**	**43**
	2019	**41**	**44**	**38**	**79**	**26**	**15**	**41**
	2020	**39**	**43**	**38**	**76**	**25**	**14**	**34**
	2021	**40**	**44**	**37**	**80**	**26**	**15**	**35**
Africa	**2018**	**43**	**44**	**45**	**68**	**30**	**18**	**54**
	2019	**42**	**42**	**46**	**78**	**35**	**20**	**45**
	2020	**41**	**40**	**46**	**58**	**31**	**24**	**43**
	2021	**42**	**41**	**46**	**73**	**36**	**26**	**43**
Algeria	2018	41	42	6	..	11	17	..
	2019	43	44	8	..	11	17	..
	2020	42	43	3	..	9	17	..
	2021	43	44	1	..	13	16	..
Angola	2018	31	16	44	..	..	16	..
	2019	26	11	46	..	..	33	..
	2020	23	6	39	..	..	37	..
	2021	23	11	35	..	..	34	..
Benin	2018	6	7	0	..	..	12	..
	2019	12	14	0	..	..	13	..
	2020	22	26	0	..	..	12	..
	2021	25	29	..	..	..	28	..
Botswana	2018	47	47	..	..	..	15	..
	2019	38	38	..	..	..	9	..
	2020	33	33	..	..	..	12	..
	2021	37	38	..	..	..	12	..
Burkina Faso	2018	38	38	46	..	..	27	..
	2019	32	33	37	..	..	17	..
	2020	27	28	40	..	..	18	..
	2021	31	31	45	..	..	18	..
Burundi	2018	32	35	31	..	..	18	..
	2019	28	27	31	..	..	18	..
	2020	29	19	42	..	..	18	..
	2021	27	26	31	..	..	10	..
Cabo Verde	2018	28	26	..	..	38	16	..
	2019	27	27	..	..	35	15	..
	2020	28	28	..	..	30	11	..
	2021	29	29	..	..	35	11	..
Cameroon	2018	59	44	78	..	..	16	..
	2019	56	40	73	..	..	16	..
	2020	56	45	69	..	..	36	..
	2021	52	37	69	..	..	36	..
Central African Rep.	2018	38	1	67	..	..	16	..
	2019	38	1	68	..	..	16	..
	2020	38	1	66	..	..	15	..
	2021	37	1	65	..	..	18	..
Chad	2018	22	21	..	..	93	24	..
	2019	22	22	..	..	93	24	..
	2020	23	23	..	..	93	20	..
	2021	23	23	..	..	93	23	..
Comoros	2018	41	42	..	..	..	..	..
	2019	45	47	..	..	..	..	..
	2020	54	56	..	..	..	..	..
	2021	49	57	..	..	..	11	..
Congo	2018	54	51	58	..	..	16	..
	2019	63	72	45	..	..	16	..
	2020	53	54	48	..	..	16	..
	2021	55	56	53	..	..	16	..

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
43	**47**	**46**	**21**	**42**	**45**	**38**	**76**	**21**
42	**47**	**46**	**21**	**41**	**44**	**38**	**79**	**21**
40	**45**	**44**	**20**	**39**	**42**	**38**	**76**	**20**
39	**46**	**39**	**18**	**40**	**44**	**37**	**80**	**21**
24	**24**	**35**	**20**	**46**	**46**	**45**	**68**	**35**
26	**26**	**31**	**23**	**44**	**44**	**46**	**78**	**34**
26	**27**	**37**	**22**	**43**	**42**	**46**	**58**	**33**
27	**26**	**40**	**26**	**44**	**44**	**46**	**73**	**36**
10	10	..	..	54	56	6	..	17
10	10	..	..	58	60	8	..	17
9	9	..	..	56	58	3	..	17
10	10	..	..	56	58	1	..	16
19	19	..	..	31	15	44	..	16
16	16	..	..	27	11	46	..	33
15	15	..	..	23	6	39	..	37
15	15	..	..	24	11	35	..	34
29	29	..	..	3	4	0	..	12
40	41	..	10	9	10	0	..	13
41	42	..	9	20	24	0	..	13
48	49	..	21	23	27	..	..	30
..	..	..	..	48	48	..	..	15
..	..	..	..	39	39	..	..	9
..	..	..	..	34	34	..	..	12
..	..	..	..	38	39	..	..	12
45	45	..	..	35	34	46	..	27
45	45	..	..	26	27	37	..	17
45	45	..	..	21	20	40	..	18
45	45	..	..	25	24	45	..	18
16	16	..	..	33	37	31	..	18
15	15	..	..	29	28	31	..	18
16	16	..	..	30	20	42	..	18
17	17	..	..	27	27	31	..	10
18	18	..	..	28	26	..	..	33
18	18	..	..	27	27	..	..	31
18	18	..	..	28	28	..	..	26
18	18	..	..	29	29	..	..	30
57	57	..	..	60	13	78	..	16
53	53	..	..	57	10	73	..	16
61	61	..	..	54	8	69	..	36
50	50	..	..	53	5	69	..	36
..	..	..	..	38	1	67	..	16
..	..	..	..	38	1	68	..	16
..	..	..	..	38	1	66	..	15
..	..	..	..	37	1	65	..	18
..	..	..	..	22	21	..	..	83
..	..	..	..	22	22	..	..	83
..	..	..	..	23	23	..	..	81
..	..	..	..	23	23	..	..	81
..	..	..	..	42	42	..	..	..
..	..	..	..	47	47	..	..	..
..	..	..	..	56	56	..	..	..
..	..	..	..	51	57	..	..	11
57	57	..	..	49	..	58	..	16
79	79	..	..	38	..	45	..	16
58	58	..	..	40	..	48	..	16
60	60	..	..	44	..	53	..	16

Table 32

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	2018	53	63	38	..	..	..	..
	2019	55	62	45	..	..	26	..
	2020	58	67	44	..	..	10	..
	2021	58	73	34	..	..	15	..
Dem. Rep. of the Congo	2018	46	8	47	..	..	4	..
	2019	50	3	51	..	..	4	..
	2020	50	3	51	..	..	4	..
	2021	50	1	51	..	..	8	..
Djibouti	2018	5	5	..	..	..	17	..
	2019	8	8	..	..	..	17	..
	2020	11	11	..	..	..	17	..
	2021	11	11	..	..	..	17	..
Egypt	2018	41	41	51	..	26	32	..
	2019	38	38	53	..	37	17	..
	2020	38	37	61	..	35	33	..
	2021	43	42	60	..	52	34	..
Equatorial Guinea	2018	28	47	15	..	..	..	..
	2019	39	66	22	..	..	..	..
	2020	42	73	22	..	..	..	..
	2021	36	59	22	..	..	..	..
Eritrea	2018	18	19	..	..	28	7	..
	2019	18	19	..	..	28	6	..
	2020	19	20	..	..	28	6	..
	2021	18	20	..	..	23	6	..
Eswatini	2018	33	30	39	..	..	12	..
	2019	39	33	50	..	..	15	..
	2020	36	33	42	..	..	15	..
	2021	36	33	47	..	..	10	..
Ethiopia	2018	39	3	41	..	30	20	..
	2019	40	3	43	..	21	20	..
	2020	40	3	42	..	29	18	..
	2021	39	2	42	..	20	18	..
Gabon	2018	35	36	34	..	..	22	..
	2019	34	33	34	..	..	22	..
	2020	35	36	34	..	..	22	..
	2021	34	34	34	..	..	22	..
Gambia	2018	36	36	..	..	20	18	..
	2019	38	39	..	..	20	18	..
	2020	39	40	..	..	20	18	..
	2021	36	37	..	..	20	18	..
Ghana	2018	37	34	43	..	..	9	..
	2019	39	34	52	..	..	14	..
	2020	44	40	53	..	..	11	..
	2021	46	44	54	..	..	12	..
Guinea	2018	33	27	37	..	..	..	..
	2019	35	28	40	..	..	..	..
	2020	29	28	29	..	..	..	..
	2021	33	18	37	..	..	..	..
Guinea-Bissau	2018	34	35	..	..	..	18	..
	2019	34	35	..	..	..	18	..
	2020	34	34	..	..	..	18	..
	2021	34	34	..	..	..	18	..
Kenya	2018	42	16	55	..	13	3	93
	2019	42	16	44	..	53	21	72
	2020	42	9	58	..	45	19	67
	2021	42	16	49	..	52	13	67

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
30	30	..	..	53	64	38	..	..
32	32	..	..	55	63	45	..	26
36	36	..	..	58	68	44	..	10
68	68	..	..	58	73	34	..	15
15	15	..	..	46	2	47	..	4
..	..	..	..	50	3	51	..	4
..	..	..	..	50	3	51	..	4
..	..	..	..	50	1	51	..	8
..	..	..	..	5	5	..	..	17
..	..	..	..	8	8	..	..	17
..	..	..	..	11	11	..	..	17
..	..	..	..	11	11	..	..	17
34	34	..	..	41	41	51	..	27
64	64	..	..	37	37	53	..	28
64	64	..	..	37	36	61	..	34
62	62	..	..	42	42	60	..	42
..	..	..	..	28	47	15	..	..
..	..	..	..	39	66	22	..	..
..	..	..	..	42	73	22	..	..
..	..	..	..	36	59	22	..	..
21	21	..	..	18	19	..	..	7
21	21	..	..	18	19	..	..	7
18	18	..	..	19	20	..	..	7
18	18	..	..	18	20	..	..	6
32	33	15	12	34	..	39	..	..
32	33	15	15	50	..	50	..	..
33	33	15	15	43	..	43	..	..
33	33	15	15	42	..	48	..	9
11	11	..	..	39	1	41	..	29
11	11	..	..	40	1	43	..	21
11	11	..	..	40	1	42	..	28
9	9	..	..	39	1	42	..	19
29	29	32	22	36	37	34	..	..
29	29	32	22	34	34	34	..	..
32	32	32	22	36	37	34	..	..
27	27	32	22	35	36	34	..	..
12	12	..	..	45	46	..	..	19
12	12	..	..	48	49	..	..	19
12	12	..	..	48	49	..	..	19
12	12	..	..	43	44	..	..	19
10	10	..	..	38	36	43	..	9
10	10	..	..	40	35	52	..	14
..	..	..	..	44	40	53	..	11
..	..	..	..	46	44	54	..	12
35	35	..	..	32	12	37	..	..
35	35	..	..	35	14	40	..	..
34	34	..	..	26	13	29	..	..
25	25	..	..	34	12	37	..	..
41	41	..	..	32	33	..	..	18
40	40	..	..	32	33	..	..	18
40	40	..	..	32	33	..	..	18
40	40	..	..	32	33	..	..	18
4	4	..	..	47	21	55	..	62
7	7	..	..	47	20	44	..	65
5	5	..	..	46	11	58	..	59
9	8	54	..	45	19	49	..	57

Table 32

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	2018	79	14	80	..	..	..	..
	2019	60	15	60	..	..	..	..
	2020	65	14	66	..	..	..	..
	2021	80	14	81	..	..	..	..
Liberia	2018	24	32	15	..	..	15	..
	2019	24	33	15	..	..	15	..
	2020	28	36	18	..	..	15	..
	2021	34	29	43	..	..	19	..
Libya	2018	37	37	..	..	..	18	..
	2019	38	38	..	..	..	18	..
	2020	32	32	..	..	..	18	..
	2021	34	34	..	..	..	17	..
Madagascar	2018	34	24	67	..	30	13	..
	2019	42	35	61	..	30	18	..
	2020	38	32	57	..	30	18	..
	2021	37	33	53	..	29	16	..
Malawi	2018	35	21	44	..	..	23	..
	2019	34	7	53	..	..	24	..
	2020	32	4	50	..	..	24	..
	2021	30	7	48	..	..	14	..
Mali	2018	34	36	32	..	..	19	..
	2019	37	39	35	..	..	18	..
	2020	35	40	36	..	..	9	..
	2021	38	43	37	..	..	11	..
Mauritania	2018	26	26	..	..	37	19	..
	2019	28	29	..	..	37	19	..
	2020	27	27	..	..	46	19	..
	2021	25	24	..	..	46	19	..
Mauritius	2018	41	46	24	..	16	8	..
	2019	44	50	19	..	17	16	..
	2020	38	44	22	..	20	16	..
	2021	40	45	20	..	16	16	..
Morocco	2018	32	35	13	..	37	42	..
	2019	33	36	11	..	43	25	..
	2020	32	36	8	..	36	23	..
	2021	33	38	8	..	40	24	..
Mozambique	2018	72	80	72	..	..	0	..
	2019	78	94	77	..	..	4	..
	2020	78	76	81	..	..	8	..
	2021	78	77	81	..	..	8	..
Namibia	2018	28	2	38	..	47	33	..
	2019	27	5	31	..	47	32	..
	2020	37	7	50	..	47	32	..
	2021	27	4	31	..	47	33	..
Niger	2018	18	18	..	..	..	19	..
	2019	22	23	..	..	..	14	..
	2020	22	23	..	..	..	10	..
	2021	23	23	..	..	..	19	..
Nigeria	2018	31	29	42	..	11	17	..
	2019	32	29	46	..	11	17	..
	2020	33	32	42	..	11	17	..
	2021	31	29	43	..	..	17	..
Rwanda	2018	38	38	42	..	..	17	..
	2019	40	37	47	..	..	17	..
	2020	40	31	54	..	..	17	..
	2021	47	39	59	..	..	17	..

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
..	..	..	..	79	14	80	..	..
..	..	..	..	60	15	60	..	..
..	..	..	..	65	14	66	..	..
..	..	..	..	80	14	81	..	..
32	33	..	15	19	29	15	..	..
32	33	..	15	20	34	15	..	..
32	33	..	15	25	42	18	..	..
32	33	..	19	35	20	43	..	4
..	..	..	..	37	37	..	..	18
..	..	..	..	38	38	..	..	18
..	..	..	..	32	32	..	..	18
..	..	..	..	34	34	..	..	17
29	29	..	..	35	23	67	..	13
31	31	..	..	44	37	61	..	18
33	33	..	..	39	32	57	..	18
37	37	..	..	37	32	53	..	16
20	21	11	..	43	63	44	..	23
7	7	11	..	48	63	53	..	24
4	3	11	..	46	63	51	..	24
7	7	11	..	39	63	49	..	14
44	46	..	19	31	29	32	..	18
46	48	..	19	34	32	35	..	13
39	48	..	5	34	34	36	..	13
40	50	..	5	37	39	37	..	18
44	46	..	15	22	21	..	..	25
44	46	..	20	25	25	..	..	25
42	44	..	18	24	23	..	..	27
43	44	..	22	21	20	..	..	27
56	69	..	9	30	32	24	..	6
61	80	..	16	33	35	19	..	6
55	75	..	16	27	27	22	..	8
58	78	..	17	27	28	20	..	8
4	..	..	2	43	54	13	..	38
5	1	..	2	43	53	11	..	37
5	1	..	2	41	53	8	..	31
5	1	..	2	43	56	8	..	34
49	49	..	..	72	84	72	..	0
51	51	..	..	78	99	77	..	4
48	48	..	..	78	79	81	..	8
48	48	..	..	78	81	81	..	8
..	..	..	..	28	2	38	..	33
..	..	..	..	27	5	31	..	32
..	..	..	..	37	7	50	..	32
..	..	..	..	27	4	31	..	33
7	2	..	19	21	21	..	..	..
13	12	..	14	25	25	..	..	..
22	31	..	5	22	22	..	..	..
15	13	..	19	26	26	..	..	..
20	20	45	16	35	33	42	..	..
20	19	49	16	37	35	46	..	..
22	21	45	17	38	36	42	..	..
21	21	46	17	34	32	43	..	..
23	23	..	..	38	38	42	..	17
23	23	..	..	40	37	47	..	17
23	23	..	..	40	31	54	..	17
23	23	..	..	47	39	59	..	17

Table 32

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	2018	44	45	29	..	..	14	..
	2019	42	44	29	..	..	14	..
	2020	42	44	29	..	..	14	..
	2021	42	43	29	..	..	14	..
Senegal	2018	44	49	..	..	..	6	..
	2019	38	45	..	..	5	20	..
	2020	45	54	..	..	16	26	..
	2021	45	52	..	..	29	34	..
Seychelles	2018	38	40	..	..	14	10	..
	2019	39	41	..	..	9	11	..
	2020	43	45	..	..	11	16	..
	2021	40	44	..	..	10	13	..
Sierra Leone	2018	26	13	42	..	..	17	..
	2019	21	3	44	..	..	17	..
	2020	29	4	44	..	..	17	..
	2021	29	5	43	..	..	16	..
Somalia	2018	38	40	..	..	20	18	..
	2019	38	40	..	..	20	18	..
	2020	36	39	..	..	20	18	..
	2021	33	37	..	..	20	18	..
South Africa	2018	52	57	19	68	30	16	..
	2019	49	52	19	78	31	21	..
	2020	46	50	20	58	26	23	..
	2021	45	47	22	73	30	30	..
South Sudan	2018	48	51	..	..	..	13	..
	2019	48	52	..	..	..	15	..
	2020	48	52	..	..	..	15	..
	2021	51	54	..	..	..	23	..
St. Helena and Depend.	2018	11	12	..	..	11	11	..
	2019	11	14	..	..	8	7	..
	2020	11	13	..	..	8	7	..
	2021	13	18	..	..	6	7	..
Sudan	2018	47	38	58	..	..	4	..
	2019	49	39	61	..	..	3	..
	2020	51	39	67	..	..	2	..
	2021	49	39	61	..	..	2	..
Togo	2018	30	28	34	..	..	11	..
	2019	36	34	41	..	..	12	..
	2020	31	34	25	..	..	12	..
	2021	31	37	28	..	..	11	..
Tunisia	2018	50	51	3	..	22	31	..
	2019	43	43	12	..	24	33	..
	2020	40	40	8	..	22	30	..
	2021	40	41	5	..	20	28	..
Uganda	2018	47	23	55	..	..	9	..
	2019	40	17	45	..	..	17	..
	2020	40	14	46	..	..	22	..
	2021	40	18	46	..	..	19	..
United Rep. of Tanzania	2018	54	57	48	..	..	40	..
	2019	58	65	49	..	..	40	..
	2020	56	53	62	..	..	18	..
	2021	57	56	61	..	..	17	..
Zambia	2018	63	55	65	..	..	12	..
	2019	57	58	59	..	..	15	..
	2020	57	47	61	..	..	19	..
	2021	59	27	68	..	..	19	..

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
..	..	..	..	44	45	29	..	14
..	..	..	..	42	44	29	..	14
..	..	..	..	42	44	29	..	14
..	..	..	..	42	43	29	..	14
26	33	..	5	57	57	..	..	..
25	30	..	9	46	53	..	..	15
20	22	..	11	56	69	..	..	20
23	26	..	11	54	62	..	..	33
35	35	..	..	39	41	..	..	12
36	36	..	..	40	42	..	..	10
36	36	..	..	44	47	..	..	13
36	36	..	..	41	46	..	..	12
23	23	..	..	26	13	42	..	17
23	23	..	..	21	2	44	..	17
23	23	..	..	29	2	44	..	17
23	23	..	..	29	4	43	..	16
..	..	..	..	38	40	..	..	19
..	..	..	..	38	40	..	..	19
..	..	..	..	36	39	..	..	18
..	..	..	..	33	37	..	..	18
35	63	14	22	55	57	19	68	39
38	64	8	26	51	52	19	78	40
38	66	11	24	48	49	21	58	36
39	60	18	30	46	47	22	73	34
13	12	..	59	63	71	..	..	7
14	12	..	67	64	72	..	..	8
14	13	..	67	64	72	..	..	8
15	13	..	103	67	74	..	..	12
..	..	..	..	11	12	..	..	11
..	..	..	..	11	14	..	..	8
..	..	..	..	11	13	..	..	7
..	..	..	..	13	18	..	..	6
7	7	..	..	49	42	58	..	4
6	6	..	..	51	42	61	..	3
6	6	..	..	53	43	67	..	2
6	6	..	..	51	43	61	..	2
7	5	..	11	31	29	34	..	..
10	9	..	11	37	36	41	..	..
8	5	..	11	32	35	25	..	..
2	5	..	1	38	38	28	..	..
64	58	..	31	49	51	3	..	22
66	61	..	37	41	43	12	..	23
58	60	..	32	39	40	8	..	21
54	61	..	30	39	40	5	..	19
35	25	45	..	50	22	57	..	9
31	23	37	..	42	12	47	..	18
38	22	48	..	41	7	46	..	22
42	33	48	..	40	5	46	..	19
5	0	..	40	61	70	48	..	..
5	0	..	40	67	81	49	..	..
3	1	..	18	64	65	62	..	..
3	0	..	17	65	67	61	..	..
26	26	..	..	64	57	65	..	12
26	26	..	..	58	60	59	..	15
26	26	..	..	57	48	61	..	19
8	8	..	..	61	31	68	..	19

Table 32

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	2018	46	39	55	..	..	..	..
	2019	41	38	44	..	..	..	..
	2020	32	26	40	..	..	20	..
	2021	41	23	63	..	..	7	..
Asia	**2018**	**43**	**49**	**36**	**55**	**22**	**15**	**30**
	2019	**42**	**48**	**38**	**63**	**22**	**15**	**30**
	2020	**40**	**46**	**37**	**63**	**19**	**14**	**25**
	2021	**41**	**48**	**36**	**68**	**23**	**15**	**27**
Afghanistan	2018	27	17	32	..	..	18	..
	2019	34	15	41	..	..	20	..
	2020	28	11	35	..	..	24	..
	2021	29	11	35	..	..	24	..
Armenia	2018	25	21	20	58	7	12	..
	2019	24	19	20	62	9	16	..
	2020	24	20	15	77	5	17	..
	2021	22	19	19	51	4	18	..
Azerbaijan	2018	37	40	18	..	14	13	..
	2019	39	43	16	..	18	15	..
	2020	39	44	11	..	17	15	..
	2021	40	45	13	..	16	13	..
Bahrain	2018	48	48	..	..	11	21	..
	2019	55	55	..	..	11	23	..
	2020	55	55	..	..	11	11	..
	2021	55	55	..	..	14	13	..
Bangladesh	2018	58	59	54	..	68	25	..
	2019	54	55	38	..	24	14	..
	2020	50	51	43	..	23	14	..
	2021	51	52	34	..	18	11	..
Bhutan	2018	49	0	49	..	21	16	..
	2019	43	0	43	..	21	16	..
	2020	55	0	56	..	21	16	..
	2021	56	0	56	..	7	16	..
Brunei Darussalam	2018	49	49	..	..	..	15	..
	2019	51	51	..	..	..	15	..
	2020	58	58	..	..	..	12	..
	2021	57	57	..	..	..	10	..
Cambodia	2018	43	48	41	..	..	19	..
	2019	42	55	35	..	..	11	..
	2020	34	39	35	..	..	12	..
	2021	38	36	46	..	..	19	..
China	2018	42	49	40	75	23	12	11
	2019	41	48	42	82	22	13	1
	2020	39	47	42	84	19	12	1
	2021	40	49	39	87	23	12	0
China, Hong Kong SAR	2018	34	34	..	..	..	..	..
	2019	34	34	..	..	..	..	..
	2020	31	31	..	..	..	..	..
	2021	32	32	..	..	..	..	..
China, Macao SAR	2018	19	19	..	..	..	11	..
	2019	24	24	..	..	..	11	..
	2020	16	16	..	..	..	9	..
	2021	14	14	..	..	..	11	..
Cyprus	2018	32	35	..	..	16	19	..
	2019	32	35	..	..	17	16	..
	2020	29	33	..	..	17	15	..
	2021	29	33	..	..	18	17	..

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	..	..	46	38	55	..	..
53	53	..	..	40	38	44	..	..
28	28	..	..	32	26	40	..	20
0	0	..	..	41	23	63	..	7
48	**49**	**33**	**41**	**42**	**49**	**36**	**55**	**18**
47	**47**	**35**	**42**	**42**	**48**	**38**	**63**	**18**
45	**45**	**32**	**40**	**40**	**46**	**37**	**63**	**16**
46	**47**	**34**	**39**	**40**	**48**	**36**	**68**	**18**
17	1	25	20	34	31	35	..	..
18	1	26	20	44	29	49	..	20
18	1	26	20	35	19	40	..	30
18	1	26	20	36	20	40	..	29
16	..	..	16	25	21	20	58	7
16	..	..	16	24	19	20	62	13
17	..	..	17	24	20	15	77	13
17	..	..	17	22	19	19	51	19
28	28	..	0	38	42	18	..	14
29	29	..	0	40	46	16	..	17
31	31	37	0	40	46	11	..	16
33	34	21	3	41	47	13	..	15
44	44	..	..	52	52	..	..	19
57	57	..	..	53	53	..	..	21
58	58	..	..	52	52	..	..	11
58	58	..	..	53	53	..	..	13
43	43	..	..	65	66	54	..	25
30	30	..	..	67	69	38	..	14
26	26	..	..	65	66	43	..	14
26	26	..	..	67	70	34	..	11
..	..	..	..	49	0	49	..	20
..	..	..	..	43	0	43	..	20
..	..	..	..	55	0	56	..	20
..	..	..	..	56	0	56	..	10
43	43	..	..	50	50	..	..	15
44	44	..	..	52	53	..	..	15
81	81	..	..	52	52	..	..	12
79	80	..	10	51	51	..	..	10
..	..	..	..	43	48	41	..	19
..	..	..	..	42	55	35	..	11
..	..	..	..	34	39	35	..	12
..	..	..	..	38	36	46	..	19
92	92	..	..	41	47	40	75	17
88	88	..	..	40	46	42	82	17
87	87	..	..	38	45	42	84	16
116	116	..	..	39	47	39	87	18
..	..	..	..	34	34	..	..	..
..	..	..	..	34	34	..	..	..
..	..	..	..	31	31	..	..	..
..	..	..	..	32	32	..	..	..
70	70	..	11	15	15	..	..	..
85	85	..	11	19	19	..	..	..
74	74	..	9	12	12	..	..	..
82	82	..	11	9	9	..	..	..
18	16	..	20	33	35	..	..	17
17	20	..	16	33	36	..	..	17
14	20	..	12	30	33	..	..	17
16	20	..	16	31	34	..	..	18

Table 32

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
Georgia	2018	39	28	42	..	48	..	..
	2019	36	29	39	..	46	..	..
	2020	34	33	35	..	49	..	..
	2021	34	27	36	..	45	..	..
India	2018	41	48	34	64	19	16	..
	2019	41	47	39	78	20	17	..
	2020	38	45	40	72	18	17	..
	2021	38	46	40	79	19	17	..
Indonesia	2018	49	49	40	..	..	2	71
	2019	49	50	42	..	..	1	70
	2020	48	48	43	..	..	1	72
	2021	49	50	36	..	..	7	69
Iran (Islamic Rep. of)	2018	45	50	15	83	21	14	..
	2019	44	49	15	76	23	21	..
	2020	46	51	15	62	28	17	..
	2021	46	52	15	35	28	15	..
Iraq	2018	34	36	12	..	..	18	..
	2019	37	37	32	..	..	18	..
	2020	36	36	26	..	..	18	..
	2021	36	37	21	..	..	18	..
Israel	2018	44	46	0	..	59	13	..
	2019	43	47	..	..	62	16	..
	2020	41	46	..	..	66	18	..
	2021	39	45	..	..	96	17	..
Japan	2018	39	47	20	19	24	48	88
	2019	39	46	20	22	22	48	88
	2020	38	45	20	13	25	47	89
	2021	39	45	20	24	25	47	89
Jordan	2018	48	55	43	..	29	20	..
	2019	45	54	35	..	27	22	..
	2020	36	45	35	..	31	18	..
	2021	36	43	59	..	29	21	..
Kazakhstan	2018	47	49	43	..	43	7	..
	2019	49	54	41	..	28	6	..
	2020	49	55	40	..	24	8	..
	2021	49	53	37	..	30	14	..
Korea, Dem.Ppl's.Rep.	2018	35	41	31	..	..	15	..
	2019	33	43	26	..	..	14	..
	2020	33	38	30	..	..	14	..
	2021	35	32	38	..	..	15	..
Korea, Republic of	2018	53	56	13	70	20	12	43
	2019	50	53	11	72	20	12	43
	2020	47	49	13	79	22	12	52
	2021	49	53	12	78	21	13	58
Kuwait	2018	45	45	..	..	35	5	..
	2019	46	46	..	..	33	25	..
	2020	42	42	..	..	30	47	..
	2021	46	46	..	..	27	42	..
Kyrgyzstan	2018	46	22	52	..	..	..	..
	2019	45	20	50	..	..	..	..
	2020	45	22	51	..	..	..	..
	2021	44	29	47	..	..	..	..
Lao People's Dem. Rep.	2018	58	82	50	..	..	31	..
	2019	44	73	35	..	..	21	..
	2020	46	60	41	..	..	21	..
	2021	44	56	40	..	..	32	..

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
..	..	..	..	39	28	42	..	48
..	..	..	..	36	29	39	..	46
..	..	..	..	34	33	35	..	49
..	..	..	..	34	27	36	..	45
27	27	30	9	44	54	34	64	16
32	32	24	24	43	52	39	78	16
27	27	30	25	40	50	40	72	15
19	19	30	26	42	54	40	79	15
46	48	..	..	50	50	42	..	70
41	42	46	..	51	52	41	..	70
34	35	46	..	51	51	43	..	71
35	35	44	..	53	54	36	..	67
10	10	..	..	48	54	15	83	17
11	11	..	..	47	53	15	76	22
12	12	..	..	49	55	15	62	22
12	12	..	..	49	55	15	35	20
18	..	..	18	34	36	12	..	..
18	..	..	18	37	37	32	..	..
18	..	..	18	36	36	26	..	..
18	..	..	18	36	37	21	..	..
29	55	0	15	46	46	0	..	0
29	66	..	16	45	46	..	..	21
29	63	..	17	44	45	..	..	26
26	67	..	16	43	44	..	..	34
53	39	82	95	38	48	20	19	18
54	37	95	101	37	47	19	22	17
53	34	86	102	36	47	19	13	18
58	39	82	105	37	46	20	24	18
33	54	..	18	50	55	43	..	24
31	56	..	18	48	54	35	..	25
21	41	..	15	40	45	35	..	25
20	38	..	15	39	44	59	..	28
39	45	..	15	47	49	43	..	11
24	40	..	15	50	54	41	..	9
28	40	..	9	49	55	40	..	12
48	60	34	1	49	52	39	..	23
..	..	..	..	35	41	31	..	14
..	..	..	..	33	43	26	..	14
..	..	..	..	33	38	30	..	14
..	..	..	..	35	32	38	..	14
39	45	..	7	54	57	13	70	16
36	44	..	7	51	54	11	72	15
34	42	..	7	49	50	13	79	16
33	42	..	7	50	54	12	78	16
..	..	..	..	45	45	..	..	12
..	..	..	..	46	46	..	..	27
..	..	..	..	42	42	..	..	44
..	..	..	..	46	46	..	..	38
74	74	..	..	46	21	52	..	..
61	61	..	..	45	19	50	..	..
49	49	..	..	45	22	51	..	..
44	44	..	..	44	29	47	..	..
..	..	..	..	58	82	50	..	31
..	..	..	..	44	73	35	..	21
..	..	..	..	46	60	41	..	21
..	..	..	..	44	56	40	..	32

Table 32

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
Lebanon	2018	71	76	14	..	..	13	..
	2019	72	76	39	..	..	17	..
	2020	55	57	41	..	..	17	..
	2021	38	40	27	..	..	19	..
Malaysia	2018	57	62	49	..	..	7	..
	2019	60	66	48	..	..	19	..
	2020	55	61	50	..	..	16	..
	2021	56	60	57	..	..	13	..
Maldives	2018	29	30	..	..	20	17	..
	2019	24	24	..	..	20	17	..
	2020	24	24	..	..	20	17	..
	2021	23	24	..	..	20	16	..
Mongolia	2018	51	57	30	..	25	11	..
	2019	53	61	31	..	25	8	..
	2020	53	60	31	..	25	7	..
	2021	59	66	51	..	42	7	..
Myanmar	2018	45	52	39	..	..	4	..
	2019	38	43	33	..	..	23	..
	2020	40	49	29	..	..	22	..
	2021	35	37	34	..	..	22	..
Nepal	2018	45	0	48	..	1	21	..
	2019	57	0	61	..	0	20	..
	2020	51	0	54	..	0	22	..
	2021	50	0	52	..	0	28	..
Oman	2018	51	51	..	..	..	22	..
	2019	38	38	..	..	..	22	..
	2020	36	37	..	..	..	13	..
	2021	39	40	..	..	..	11	..
Other Asia	2018	60	68	19	70	19	11	0
	2019	56	62	21	95	19	11	29
	2020	55	64	15	93	23	11	73
	2021	56	65	16	110	23	12	23
Pakistan	2018	41	42	38	73	30	16	..
	2019	39	36	45	79	27	15	..
	2020	40	39	45	72	27	19	..
	2021	39	38	37	68	32	20	..
Philippines	2018	47	52	29	..	31	16	61
	2019	47	52	24	..	28	15	63
	2020	44	48	22	..	26	15	64
	2021	50	54	30	..	34	16	70
Qatar	2018	52	52	..	..	..	..	..
	2019	54	54	..	..	..	..	..
	2020	53	53	..	..	..	..	..
	2021	56	56	..	..	..	..	..
Saudi Arabia	2018	43	43	..	..	20	29	..
	2019	38	38	..	..	20	49	..
	2020	37	37	..	..	21	97	..
	2021	37	37	..	..	47	25	..
Singapore	2018	43	44	..	..	..	17	..
	2019	48	49	..	..	..	17	..
	2020	50	51	..	..	..	17	..
	2021	52	53	..	..	..	17	..
Sri Lanka	2018	45	50	41	..	29	20	..
	2019	44	58	30	..	31	28	..
	2020	40	54	32	..	16	11	..
	2021	41	47	46	..	29	10	..

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
79	82	..	13	67	74	14	..	..
88	93	..	17	65	68	39	..	..
58	61	..	17	54	56	41	..	..
51	57	..	19	32	33	27	..	..
31	42	..	1	59	64	49	..	6
33	46	..	1	62	67	48	..	17
31	43	..	2	57	62	50	..	14
32	43	..	2	57	61	57	..	12
26	26	..	..	31	33	..	..	17
16	16	..	..	31	33	..	..	17
16	16	..	..	31	33	..	..	17
16	16	..	..	30	33	..	..	16
23	..	30	..	52	58	..	..	21
24	..	31	..	54	61	..	..	19
24	..	31	..	54	61	..	..	19
38	..	51	..	60	66	..	..	29
53	65	37	4	38	33	40	..	..
44	49	35	23	31	31	32	..	..
52	62	32	22	25	21	28	..	..
43	47	34	22	25	10	33	..	8
11	..	8	21	50	0	53	..	4
13	..	11	20	63	0	67	..	2
12	..	10	23	57	0	61	..	8
5	..	3	28	64	0	67	..	17
..	..	..	..	51	51	..	..	22
..	..	..	..	38	38	..	..	3
..	..	..	..	36	37	..	..	9
..	..	..	..	39	40	..	..	8
25	29	..	9	80	94	19	70	64
23	28	..	9	75	82	21	95	56
22	27	5	9	76	85	15	93	62
21	27	9	9	81	90	16	110	63
33	69	..	..	41	42	38	73	26
27	56	..	..	39	35	45	79	23
18	39	..	..	41	39	45	72	24
48	69	..	..	39	37	37	68	29
26	26	12	..	48	53	29	..	45
26	26	12	..	47	52	24	..	45
26	26	12	..	44	49	22	..	44
26	26	12	..	50	55	30	..	48
59	59	..	..	11	11	..	..	..
61	61	..	..	14	14	..	..	..
59	59	..	..	20	20	..	..	..
63	63	..	..	12	12	..	..	..
72	72	..	..	35	35	..	..	29
44	44	..	..	36	36	..	..	48
43	43	..	..	34	34	..	..	95
44	44	..	..	34	34	..	..	29
95	95	..	..	41	42	..	..	17
93	93	..	..	46	47	..	..	17
96	96	..	..	47	48	..	..	17
95	95	..	..	50	51	..	..	17
33	31	36	18	46	50	42	..	27
26	39	28	13	47	58	31	..	38
27	39	29	12	42	54	32	..	14
32	47	43	12	42	47	47	..	17

Table 32

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
State of Palestine	2018	24	26	..	..	..	17	..
	2019	39	49	..	..	..	17	..
	2020	34	47	..	..	..	17	..
	2021	31	49	..	..	..	14	..
Syrian Arab Republic	2018	21	23	6	..	..	..	..
	2019	20	22	6	..	..	..	..
	2020	19	21	6	..	..	..	..
	2021	20	23	6	..	..	..	..
Tajikistan	2018	34	21	36	..	..	..	..
	2019	37	24	38	..	..	..	..
	2020	34	26	35	..	..	..	..
	2021	36	26	37	..	..	..	..
Thailand	2018	46	54	24	..	17	10	53
	2019	48	57	20	..	28	12	49
	2020	44	48	17	..	23	18	42
	2021	41	45	17	..	26	18	42
Timor-Leste	2018	18	18	53	..	..	18	..
	2019	21	21	53	..	..	33	..
	2020	20	20	53	..	..	18	..
	2021	21	21	53	..	..	18	..
Türkiye	2018	39	51	24	..	33	18	65
	2019	38	42	36	..	33	18	61
	2020	37	44	29	..	32	19	64
	2021	38	53	20	..	34	20	66
Turkmenistan	2018	40	40	30	..	..	..	..
	2019	40	40	30	..	..	..	..
	2020	40	40	30	..	..	..	..
	2021	40	40	55	..	..	..	..
United Arab Emirates	2018	50	51	..	..	..	25	..
	2019	48	49	..	..	..	25	..
	2020	45	46	..	..	..	30	..
	2021	48	49	..	..	..	26	..
Uzbekistan	2018	47	53	35	..	..	1	..
	2019	43	46	39	..	33	0	..
	2020	43	48	28	..	33	1	..
	2021	49	52	28	..	18	5	..
Viet Nam	2018	54	56	52	..	15	11	..
	2019	46	53	47	..	9	10	..
	2020	35	45	40	..	21	6	..
	2021	35	41	41	..	9	19	..
Yemen	2018	23	23	..	..	..	22	..
	2019	21	21	..	..	..	22	..
	2020	19	19	..	..	..	22	..
	2021	19	18	..	..	..	22	..
Europe	**2018**	**39**	**39**	**34**	**78**	**24**	**12**	**64**
	2019	**37**	**37**	**32**	**78**	**26**	**12**	**53**
	2020	**35**	**35**	**34**	**73**	**27**	**12**	**61**
	2021	**36**	**37**	**35**	**79**	**24**	**11**	**56**
Albania	2018	44	..	46	..	..	..	..
	2019	25	..	27	..	..	17	..
	2020	25	..	27	..	..	20	..
	2021	38	..	41	..	..	5	..
Andorra	2018	31	52	28	..	..	17	..
	2019	25	55	21	..	..	11	..
	2020	33	49	31	..	..	10	..
	2021	23	49	20	..	..	11	..

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
39	61	..	17	20	21	..	..	17
30	57	..	17	41	48	..	..	17
24	42	..	17	39	48	..	..	17
19	41	..	14	37	51	..	..	14
7	7	..	..	22	25	6	..	..
7	7	..	..	21	24	6	..	..
7	7	..	..	20	23	6	..	..
7	7	..	..	22	25	6	..	..
..	..	..	..	34	21	36	..	..
..	..	..	..	37	24	38	..	..
..	..	..	..	34	26	35	..	..
..	..	..	..	36	26	37	..	..
43	46	29	23	48	60	24	..	6
46	49	27	26	49	63	20	..	11
..	..	..	..	44	48	17	..	20
..	..	..	..	41	45	17	..	20
..	..	..	..	18	18	53	..	18
..	..	..	..	21	21	53	..	33
..	..	..	..	20	20	53	..	18
..	..	..	..	21	21	53	..	18
35	42	22	20	40	52	24	..	32
35	41	27	19	38	42	36	..	32
36	45	21	19	37	44	29	..	32
42	54	29	20	38	53	20	..	34
..	..	..	..	40	40	30	..	..
..	..	..	..	40	40	30	..	..
..	..	..	..	40	40	30	..	..
..	..	..	..	40	40	55	..	..
..	..	..	..	50	51	..	..	25
..	..	..	..	48	49	..	..	25
..	..	..	..	45	46	..	..	30
..	..	..	..	48	49	..	..	26
..	..	..	..	47	53	35	..	0
..	..	..	..	43	46	39	..	0
..	..	..	..	43	48	28	..	0
33	33	..	..	49	52	28	..	5
9	9	3	4	61	68	53	..	14
9	9	3	4	50	62	48	..	10
18	19	3	4	36	49	40	..	7
18	19	3	4	36	45	42	..	17
23	24	..	22	22	22	..	..	..
23	24	..	22	21	21	..	..	..
22	22	..	22	18	18	..	..	..
22	22	..	22	18	18	..	..	..
36	**44**	**34**	**13**	**39**	**39**	**34**	**78**	**21**
36	**45**	**34**	**13**	**37**	**36**	**32**	**78**	**21**
34	**44**	**35**	**12**	**35**	**33**	**34**	**73**	**22**
31	**45**	**36**	**11**	**37**	**36**	**35**	**79**	**20**
..	..	..	..	44	..	46	..	..
..	..	..	..	25	..	27	..	17
..	..	..	..	26	..	27	..	20
..	..	..	..	39	..	41	..	21
58	58	..	..	28	34	28	..	17
61	61	..	..	21	37	21	..	11
57	57	..	..	30	26	31	..	10
49	49	..	..	20	46	20	..	11

Table 32

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
Austria	2018	31	35	32	..	22	11	3
	2019	33	37	35	..	26	11	2
	2020	31	33	35	..	24	11	1
	2021	29	33	33	..	23	11	0
Belarus	2018	44	45	38	..	12	13	..
	2019	45	46	41	..	18	13	..
	2020	39	44	47	3	20	13	..
	2021	42	40	44	56	17	12	..
Belgium	2018	38	47	11	55	26	11	36
	2019	45	49	10	84	29	10	41
	2020	40	50	11	66	31	10	41
	2021	44	44	11	98	28	11	34
Bosnia and Herzegovina	2018	49	67	33	..	23	13	..
	2019	45	59	31	..	33	16	..
	2020	43	64	24	..	34	15	..
	2021	46	60	34	..	32	15	..
Bulgaria	2018	46	61	18	92	22	15	..
	2019	44	60	11	94	21	15	..
	2020	42	53	11	95	24	15	..
	2021	48	68	17	94	23	13	..
Croatia	2018	31	24	40	..	26	13	2
	2019	31	33	31	..	26	11	105
	2020	33	42	30	..	25	10	107
	2021	36	42	38	..	24	12	102
Czechia	2018	45	45	14	80	22	13	..
	2019	45	44	16	80	24	13	..
	2020	43	41	17	80	24	12	..
	2021	46	46	18	82	20	12	..
Denmark	2018	23	23	24	..	26	11	..
	2019	23	18	27	..	30	10	..
	2020	21	16	27	..	30	10	..
	2021	23	23	26	..	26	9	..
Estonia	2018	50	54	23	..	23	11	..
	2019	32	34	36	..	25	7	..
	2020	25	26	43	..	30	13	..
	2021	34	41	44	..	27	10	..
Faeroe Islands	2018	33	30	32	..	51	..	..
	2019	34	34	31	..	42	..	..
	2020	28	25	32	..	38	7	..
	2021	29	27	30	..	44	8	1
Finland	2018	47	36	48	93	33	7	..
	2019	45	33	45	98	30	8	..
	2020	46	29	57	95	36	8	..
	2021	46	33	57	96	30	8	..
France	2018	49	31	31	75	22	13	60
	2019	48	36	27	72	24	13	58
	2020	44	33	30	66	26	13	62
	2021	45	33	28	71	22	12	57
Germany	2018	32	43	25	80	21	11	49
	2019	30	38	27	90	24	10	18
	2020	28	35	27	91	24	11	34
	2021	28	38	26	97	21	9	31
Gibraltar	2018	57	57	..	..	..	..	11
	2019	50	50	..	..	..	..	11
	2020	49	49	..	..	..	..	11
	2021	53	53	..	..	..	..	11

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
53	66	13	..	29	27	33	..	19
41	47	14	..	32	33	35	..	21
40	46	12	..	31	27	36	..	19
39	45	11	..	29	28	34	..	18
47	49	46	13	44	44	38	..	13
50	53	40	14	45	46	41	..	16
46	49	46	13	38	43	47	3	17
43	45	42	12	41	40	44	56	15
25	62	..	11	42	44	11	55	26
25	65	..	11	52	45	10	84	29
24	64	..	11	46	46	11	66	31
23	64	..	11	52	38	11	98	28
71	71	..	..	49	67	33	..	21
66	66	..	..	44	59	31	..	30
57	57	..	..	43	64	24	..	29
61	61	..	..	46	60	34	..	27
19	33	..	..	47	63	18	92	18
23	49	..	..	45	61	11	94	18
23	52	..	..	42	54	11	95	19
28	59	..	..	48	69	17	94	17
26	26	25	..	31	23	40	..	24
26	26	25	..	31	34	31	..	25
28	28	28	..	33	44	30	..	24
28	28	28	..	36	44	38	..	23
52	54	31	..	44	43	12	80	14
52	53	36	..	44	43	14	80	14
57	58	40	..	42	39	15	80	14
59	60	43	..	45	44	16	82	13
22	38	..	11	23	21	24	..	26
22	45	..	10	23	16	27	..	30
21	45	..	10	21	14	27	..	30
18	45	..	9	24	21	26	..	26
54	56	..	11	50	54	23	..	22
45	45	..	23	32	34	34	..	20
87	88	..	23	25	25	37	..	24
25	85	..	0	34	40	40	..	19
..	..	..	..	33	30	32	..	51
..	..	..	..	34	34	31	..	42
..	..	..	..	28	25	32	..	37
..	..	..	..	29	27	30	..	43
52	53	57	7	46	31	48	93	33
50	54	42	8	44	27	45	98	30
46	49	61	8	46	23	57	95	36
48	53	68	8	46	26	56	96	30
31	40	38	15	50	28	31	75	19
31	42	35	15	49	34	27	72	21
29	40	35	15	45	31	29	66	22
30	50	33	14	46	29	28	71	19
56	56	31	55	31	41	25	80	17
55	55	32	58	29	36	27	90	18
54	54	27	77	27	33	27	91	18
56	55	33	86	26	36	26	97	15
..	..	..	..	57	57	..	..	11
..	..	..	..	50	50	..	..	11
..	..	..	..	49	49	..	..	11
..	..	..	..	53	53	..	..	11

Table 32

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
Greece	2018	31	40	19	..	25	16	..
	2019	27	35	14	..	23	18	..
	2020	26	36	11	..	26	15	..
	2021	30	45	20	..	26	14	..
Guernsey	2018	5	5	..	..	..	11	..
	2019	14	14	..	..	..	4	..
	2020	2	2	..	..	..	13	..
	2021	2	2	..	..	..	11	..
Hungary	2018	39	27	44	89	21	10	42
	2019	39	29	43	92	26	12	36
	2020	37	29	48	91	23	13	45
	2021	36	28	40	90	23	15	45
Iceland	2018	76	0	75	..	21	..	91
	2019	75	0	73	..	31	..	91
	2020	73	0	71	..	42	..	90
	2021	75	0	75	..	39	..	88
Ireland	2018	32	36	20	..	27	8	..
	2019	32	35	24	..	28	8	..
	2020	33	35	26	..	31	8	..
	2021	33	39	22	..	26	8	..
Isle of Man	2018	30	30	23	..	..	..	..
	2019	36	36	30	..	..	..	..
	2020	34	34	33	..	..	..	..
	2021	22	22	38	..	..	..	..
Italy	2018	29	36	26	..	20	13	69
	2019	29	36	24	..	22	13	72
	2020	28	34	25	..	20	13	70
	2021	28	36	24	..	21	13	70
Jersey	2018	7	7	..	..	..	..	..
	2019	7	7	..	..	..	..	..
	2020	7	7	..	..	..	..	..
	2021	5	5	..	..	..	..	..
Kosovo	2018	48	50	39	..	10	4	..
	2019	51	54	28	..	31	12	..
	2020	53	56	27	..	31	14	..
	2021	54	57	31	..	43	13	..
Latvia	2018	26	37	18	..	18	7	..
	2019	25	38	15	..	23	11	..
	2020	22	26	19	..	26	11	..
	2021	23	27	19	..	21	11	..
Liechtenstein	2018	39	21	71	..	..	19	..
	2019	44	24	85	..	..	19	..
	2020	41	22	82	..	..	19	..
	2021	42	29	84	..	..	19	..
Lithuania	2018	12	7	12	..	25	12	..
	2019	13	8	12	..	32	10	..
	2020	18	15	14	..	33	9	..
	2021	16	14	14	..	23	9	..
Luxembourg	2018	15	44	11	..	24	10	..
	2019	12	42	8	..	24	9	..
	2020	14	52	9	..	26	10	..
	2021	13	54	9	..	26	7	..
Malta	2018	31	34	..	..	7	16	..
	2019	31	36	..	..	7	14	..
	2020	31	37	..	..	7	14	..
	2021	32	38	..	..	7	14	..

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
45	45	..	..	31	40	19	..	21
50	50	..	..	26	34	14	..	21
55	55	..	..	26	34	11	..	21
56	56	..	..	29	44	20	..	20
..	..	..	..	5	5	..	..	11
..	..	..	..	14	14	..	..	4
..	..	..	..	2	2	..	..	13
..	..	..	..	2	2	..	..	11
24	45	..	14	41	27	44	89	15
22	42	..	14	41	28	43	92	16
20	42	..	15	40	28	48	91	15
19	39	..	15	39	28	40	90	17
..	..	..	..	76	0	75	..	91
..	..	..	..	75	0	73	..	91
..	..	..	..	73	0	71	..	90
..	..	..	..	75	0	75	..	87
62	69	..	13	31	35	20	..	27
55	65	..	12	31	33	24	..	28
52	65	..	11	32	33	26	..	31
47	64	..	10	32	37	22	..	26
49	49	..	..	29	29	23	..	..
49	49	..	..	36	36	30	..	..
49	49	..	..	34	34	33	..	..
48	48	..	..	21	21	38	..	..
47	47	50	34	28	35	26	..	17
47	47	53	25	28	35	24	..	18
45	45	59	29	27	33	25	..	17
21	47	56	12	30	35	24	..	21
22	22	..	..	0	0	..	..	..
22	22	..	..	0	0	..	..	..
22	22	..	..	0	0	..	..	..
17	17	..	..	0	0	..	..	..
..	..	..	..	48	50	39	..	9
8	..	..	8	51	54	28	..	26
..	..	..	..	53	56	27	..	27
..	..	..	..	54	57	31	..	34
63	70	13	12	26	37	18	..	18
63	71	15	17	25	37	15	..	22
54	62	16	15	22	25	19	..	26
51	62	14	14	22	26	19	..	21
..	..	..	..	39	21	71	..	19
..	..	..	..	44	24	85	..	19
..	..	..	..	41	22	82	..	19
..	..	..	..	42	29	84	..	19
26	19	..	..	11	5	12	..	23
33	27	..	..	12	4	12	..	29
33	27	..	..	17	14	14	..	27
28	23	..	..	15	12	14	..	19
17	35	25	10	14	50	11	..	24
15	32	28	9	12	48	8	..	24
15	37	26	10	14	59	9	..	26
14	33	26	10	13	64	9	..	17
17	22	..	16	34	34	..	..	..
14	16	..	14	36	36	..	..	..
14	15	..	14	37	37	..	..	..
14	18	..	14	38	38	..	..	..

Table 32

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
Montenegro	2018	42	73	37	..	14	8	..
	2019	39	76	28	..	28	5	..
	2020	37	82	24	..	31	4	..
	2021	41	73	33	..	31	4	..
Netherlands (Kingd. of the)	2018	37	43	22	83	27	9	82
	2019	37	46	23	92	29	9	76
	2020	33	45	14	96	26	9	77
	2021	30	42	27	85	26	9	40
North Macedonia	2018	36	47	20	..	31	16	..
	2019	36	47	20	..	31	16	..
	2020	33	40	21	..	36	16	..
	2021	33	40	24	..	32	7	..
Norway	2018	47	34	49	..	26	0	..
	2019	42	32	44	..	22	1	..
	2020	45	26	48	..	28	10	0
	2021	45	17	48	..	27	10	0
Poland	2018	45	51	11	..	25	6	55
	2019	43	49	13	..	30	5	74
	2020	37	43	14	..	29	6	70
	2021	39	49	15	..	27	6	..
Portugal	2018	32	45	22	..	28	17	89
	2019	28	39	16	..	30	17	84
	2020	28	35	21	..	27	18	85
	2021	27	36	21	..	28	16	70
Republic of Moldova	2018	23	24	31	..	8	11	..
	2019	22	22	46	..	14	7	..
	2020	23	23	33	..	14	11	..
	2021	24	26	48	..	13	10	..
Romania	2018	31	28	31	92	24	15	..
	2019	33	32	27	91	25	15	..
	2020	31	28	27	93	26	14	..
	2021	36	40	30	91	25	14	..
Russian Federation	2018	47	43	43	80	16	12	66
	2019	42	38	43	79	6	11	61
	2020	41	34	46	81	24	16	59
	2021	44	38	47	84	63	15	61
Serbia	2018	56	68	43	..	8	14	..
	2019	55	69	38	..	26	14	..
	2020	55	71	36	..	28	13	..
	2021	55	65	44	..	31	13	..
Slovakia	2018	40	32	18	87	17	14	43
	2019	42	34	21	90	17	11	16
	2020	43	34	22	89	11	14	22
	2021	46	43	21	90	14	14	42
Slovenia	2018	49	41	42	96	21	12	..
	2019	48	40	40	97	21	12	..
	2020	50	39	44	105	22	11	..
	2021	44	34	42	95	19	11	..
Spain	2018	30	29	21	89	25	21	18
	2019	28	29	15	94	25	16	31
	2020	28	26	19	94	24	19	36
	2021	28	27	19	91	25	19	58
Sweden	2018	45	21	43	90	26	11	..
	2019	45	22	45	88	26	11	..
	2020	43	18	50	72	31	11	..
	2021	44	24	51	88	26	11	..

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
..	..	..	..	42	73	37	..	13
..	..	..	..	39	76	28	..	27
..	..	..	..	37	82	24	..	29
..	..	..	..	41	73	33	..	29
30	47	..	11	40	42	22	83	27
27	48	..	10	43	45	23	92	27
25	50	..	10	38	43	14	96	23
22	46	..	10	35	41	27	85	22
..	..	..	..	36	47	20	..	26
..	..	..	..	36	47	20	..	26
..	..	..	..	33	40	21	..	30
..	..	..	..	33	40	24	..	14
54	53	..	0	47	13	49	..	25
46	49	..	1	42	14	44	..	21
36	37	..	10	46	14	48	..	28
22	18	..	10	45	16	48	..	26
46	53	74	7	45	51	11	..	25
42	60	71	6	43	48	13	..	30
31	62	63	6	38	41	14	..	29
21	55	41	6	43	49	15	..	27
42	48	34	16	31	45	21	..	28
41	49	33	14	26	36	16	..	30
41	48	33	18	26	31	21	..	27
37	45	26	16	26	32	21	..	26
7	7	..	7	28	29	31	..	10
7	6	..	13	27	27	46	..	13
7	5	..	14	28	29	33	..	14
8	6	..	12	31	32	48	..	13
28	36	33	5	32	26	31	92	24
32	38	37	10	33	31	27	91	23
33	41	35	8	31	24	27	93	25
36	45	41	13	36	38	30	91	23
34	34	29	..	48	44	43	80	17
34	34	29	..	43	38	43	79	12
32	32	32	..	42	35	46	81	20
36	36	32	..	44	38	47	84	29
52	52	..	..	56	68	43	..	8
38	38	..	..	55	70	38	..	25
37	37	..	..	55	72	36	..	28
40	40	..	..	56	66	44	..	31
36	43	40	19	41	28	17	87	11
29	38	42	12	44	33	20	90	11
30	37	44	15	45	33	21	89	13
33	41	45	16	48	44	20	90	14
21	62	22	12	52	40	43	96	15
20	67	20	12	52	39	41	97	15
18	68	20	11	55	39	46	105	15
17	62	21	11	49	33	44	95	13
65	68	28	32	28	23	21	89	24
67	71	28	30	26	23	15	94	22
62	66	30	23	26	19	19	94	22
61	68	27	20	26	20	18	91	23
48	49	7	..	45	15	43	90	25
56	57	3	..	45	15	45	88	25
54	54	..	..	42	11	50	72	29
54	54	..	..	43	17	51	88	24

Table 32

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
Switzerland	2018	36	45	28	87	18	10	..
	2019	37	46	30	90	22	10	..
	2020	36	46	30	82	19	10	..
	2021	32	45	29	75	19	9	..
Ukraine	2018	35	23	22	70	28	10	..
	2019	34	23	14	68	29	17	..
	2020	29	21	18	63	27	9	..
	2021	30	19	24	71	18	9	..
United Kingdom	2018	36	37	19	80	30	11	5
	2019	36	40	18	69	31	11	7
	2020	35	37	20	62	35	11	6
	2021	34	40	18	64	29	10	3
Latin America & Carib.	**2018**	**42**	**40**	**45**	**76**	**36**	**17**	**46**
	2019	**40**	**39**	**43**	**74**	**37**	**19**	**47**
	2020	**38**	**36**	**42**	**75**	**36**	**19**	**21**
	2021	**39**	**40**	**40**	**78**	**37**	**19**	**23**
Anguilla	2018	37	38	..	..	..	20	..
	2019	45	46	..	..	..	20	..
	2020	40	42	..	..	..	20	..
	2021	44	45	..	..	..	20	..
Antigua and Barbuda	2018	45	49	..	..	..	16	..
	2019	46	50	..	..	..	14	..
	2020	43	48	..	..	..	20	..
	2021	28	30	..	..	..	16	..
Argentina	2018	41	42	42	42	21	6	..
	2019	39	39	37	52	35	21	..
	2020	36	39	24	70	41	20	..
	2021	38	42	20	70	45	24	..
Aruba	2018	36	33	..	..	67	12	..
	2019	38	35	..	..	63	15	..
	2020	35	33	..	..	63	17	..
	2021	37	34	..	..	65	17	..
Bahamas	2018	38	38	..	..	..	18	..
	2019	37	38	..	..	..	14	..
	2020	34	35	..	..	..	14	..
	2021	36	36	..	..	..	15	..
Barbados	2018	41	43	..	..	..	21	..
	2019	39	43	..	..	..	15	..
	2020	35	39	..	..	..	16	..
	2021	35	41	..	..	..	14	..
Belize	2018	29	17	56	..	..	14	..
	2019	20	22	16	..	..	16	..
	2020	29	18	51	..	..	14	..
	2021	26	24	33	..	..	6	..
Bolivia (Plur. State of)	2018	41	41	43	..	25	20	..
	2019	31	27	49	..	30	18	..
	2020	31	27	44	..	27	31	..
	2021	30	26	49	..	11	23	..
Bonaire, St Eustatius, Saba	2018	44	55	..	..	38	16	..
	2019	44	59	..	..	33	15	..
	2020	44	64	..	..	26	13	..
	2021	47	68	..	..	28	17	..
Brazil	2018	42	41	43	90	38	17	..
	2019	42	41	42	93	42	17	..
	2020	40	38	41	81	38	15	..
	2021	40	49	38	84	39	16	..

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
25	52	44	10	38	26	27	87	18
24	53	45	10	40	27	29	90	22
22	53	38	10	39	29	30	82	19
20	52	47	9	36	29	28	75	19
14	14	5	2	36	24	22	70	16
12	12	..	1	35	24	14	68	21
17	17	..	2	30	21	18	63	12
19	19	..	2	31	19	24	71	11
26	37	39	15	39	38	17	80	27
27	38	42	15	39	41	16	69	28
27	38	44	16	37	36	17	62	32
26	38	41	13	37	41	15	64	26
44	**46**	**45**	**28**	**42**	**39**	**45**	**76**	**34**
44	**47**	**45**	**25**	**40**	**37**	**43**	**74**	**34**
42	**47**	**41**	**21**	**37**	**33**	**42**	**75**	**31**
40	**46**	**39**	**19**	**39**	**38**	**40**	**78**	**31**
..	..	..	..	37	38	..	..	20
..	..	..	..	45	46	..	..	20
..	..	..	..	40	42	..	..	20
..	..	..	..	44	45	..	..	20
11	11	..	..	46	49	..	..	16
11	11	..	..	46	50	..	..	14
11	11	..	..	43	48	..	..	14
11	11	..	..	28	30	..	..	12
47	47	26	..	41	41	42	42	18
47	47	26	..	38	38	37	52	32
44	44	24	..	36	38	24	70	36
44	44	24	..	37	42	20	70	40
..	..	..	..	36	33	..	..	56
..	..	..	..	38	35	..	..	53
..	..	..	..	35	33	..	..	54
..	..	..	..	37	34	..	..	56
23	23	..	..	39	39	..	..	18
27	27	..	..	38	38	..	..	14
29	29	..	..	35	35	..	..	14
31	31	..	..	36	36	..	..	15
20	20	..	..	42	43	..	..	21
20	20	..	..	40	44	..	..	15
19	19	..	..	36	40	..	..	16
19	19	..	..	36	42	..	..	14
24	24	..	..	31	12	56	..	14
23	23	..	..	18	20	16	..	16
21	21	..	..	31	17	51	..	14
17	17	..	..	29	27	33	..	6
13	12	50	..	44	46	43	..	22
15	15	50	..	33	29	49	..	20
15	15	41	..	32	29	44	..	30
49	49	45	..	29	25	49	..	18
..	..	..	..	44	55	..	..	31
..	..	..	..	44	59	..	..	26
..	..	..	..	44	64	..	..	21
..	..	..	..	47	68	..	..	24
45	47	44	13	41	35	43	90	36
44	46	44	15	41	37	42	93	37
41	47	39	12	39	30	42	81	35
39	50	35	13	40	48	38	84	36

Table 32

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
British Virgin Islands	2018	30	31	..	..	16	3	..
	2019	38	38	..	..	10	3	..
	2020	38	39	..	..	19	4	..
	2021	39	40	..	..	19	4	..
Cayman Islands	2018	47	47	..	..	..	..	..
	2019	49	49	..	..	..	..	..
	2020	47	47	..	..	..	..	..
	2021	48	48	..	..	..	..	..
Chile	2018	34	34	40	..	24	26	62
	2019	35	35	40	..	28	27	58
	2020	32	31	37	..	28	28	62
	2021	31	32	32	..	28	26	72
Colombia	2018	47	36	54	..	27	1	..
	2019	48	43	52	..	39	12	..
	2020	48	50	48	..	6	38	..
	2021	50	39	58	..	11	11	..
Costa Rica	2018	36	7	40	..	50	16	53
	2019	36	6	38	..	50	15	66
	2020	37	4	41	..	42	12	74
	2021	40	4	44	..	46	13	70
Cuba	2018	36	36	26	..	14	14	..
	2019	36	37	22	..	18	18	..
	2020	33	33	20	..	13	13	..
	2021	30	31	21	..	13	13	..
Curaçao	2018	43	41	..	..	57	19	..
	2019	44	42	..	..	53	24	..
	2020	42	41	..	..	47	24	..
	2021	42	41	..	..	48	24	..
Dominica	2018	30	28	42	..	32	6	..
	2019	37	38	35	..	32	6	..
	2020	39	40	33	..	33	7	..
	2021	40	41	34	..	57	13	..
Dominican Republic	2018	43	46	33	..	31	13	..
	2019	38	41	17	..	33	14	..
	2020	39	42	22	..	35	18	..
	2021	42	47	34	..	38	10	..
Ecuador	2018	41	33	47	..	43	16	..
	2019	46	29	56	..	46	16	..
	2020	44	26	55	..	42	16	..
	2021	45	25	58	..	33	16	..
El Salvador	2018	31	21	32	..	..	17	86
	2019	31	28	30	..	..	14	82
	2020	31	19	41	..	4	22	87
	2021	30	20	36	..	28	23	87
Falkland Is. (Malvinas)	2018	23	21	..	..	31	16	..
	2019	24	22	..	..	30	16	..
	2020	24	24	..	..	25	16	..
	2021	25	24	..	..	26	16	..
Grenada	2018	47	49	..	..	32	14	..
	2019	49	51	..	..	32	13	..
	2020	46	49	..	..	32	13	..
	2021	44	46	..	..	32	14	..
Guatemala	2018	44	49	40	..	34	26	73
	2019	40	45	33	..	23	25	73
	2020	35	29	43	..	34	27	72
	2021	40	40	41	..	35	28	61

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
..	..	..	..	30	31	..	..	8
..	..	..	..	38	38	..	..	6
..	..	..	..	38	39	..	..	10
..	..	..	..	39	40	..	..	10
..	..	..	..	47	47	..	..	..
..	..	..	..	49	49	..	..	..
..	..	..	..	47	47	..	..	..
..	..	..	..	48	48	..	..	..
19	19	80	8	37	39	40	..	26
22	22	40	2	37	38	40	..	28
17	17	13	7	35	36	37	..	28
17	16	38	20	33	38	32	..	27
67	70	19	..	46	26	55	..	6
78	81	19	..	46	32	52	..	15
81	81	..	6	45	40	48	..	39
83	83	..	7	48	27	58	..	11
30	40	..	15	36	3	40	..	51
24	30	..	14	37	2	38	..	56
21	27	..	12	38	1	41	..	55
21	27	..	13	40	0	44	..	55
16	16	..	..	38	38	26	..	14
21	21	..	..	37	38	22	..	18
18	18	..	..	34	35	20	..	13
17	17	..	..	32	32	21	..	13
24	24	..	..	49	48	..	..	50
9	9	..	..	54	58	..	..	47
5	5	..	..	53	58	..	..	42
3	3	..	..	54	59	..	..	43
34	34	..	..	28	23	42	..	17
34	34	..	..	39	41	35	..	17
34	34	..	..	41	44	33	..	17
34	34	..	..	43	46	34	..	32
18	18	50	15	51	57	33	..	24
29	30	..	16	40	45	17	..	27
22	21	..	27	41	47	22	..	28
22	23	..	15	45	51	34	..	24
48	43	69	..	40	26	46	..	28
50	43	83	..	45	20	54	..	29
48	42	76	..	43	17	54	..	27
52	45	86	..	44	13	56	..	24
6	1	42	13	37	29	32	..	72
8	1	44	15	38	38	30	..	48
10	1	51	18	38	27	41	..	51
11	1	51	19	37	28	36	..	53
..	..	..	..	23	21	..	..	30
..	..	..	..	24	22	..	..	29
..	..	..	..	24	24	..	..	24
..	..	..	..	25	24	..	..	25
25	92	..	15	48	48	..	..	..
22	96	..	13	50	50	..	..	..
21	89	..	14	48	48	..	..	..
22	89	..	14	46	46	..	..	..
18	18	63	..	50	67	40	..	37
23	23	61	..	43	54	33	..	34
16	15	74	..	39	35	43	..	39
19	19	74	..	44	48	41	..	37

Table 32

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
Guyana	2018	37	38	..	..	50	16	..
	2019	39	39	..	..	50	16	..
	2020	38	39	..	..	50	18	..
	2021	38	39	..	..	50	19	..
Haiti	2018	34	33	37	..	..	62	..
	2019	26	26	26	..	..	15	..
	2020	25	26	21	..	..	15	..
	2021	25	26	20	..	..	15	..
Honduras	2018	40	39	50	..	47	22	97
	2019	42	51	38	..	40	24	87
	2020	38	45	37	..	34	22	90
	2021	41	43	50	..	38	22	90
Jamaica	2018	48	51	70	..	34	13	..
	2019	44	47	61	..	30	18	..
	2020	49	52	53	..	31	25	..
	2021	46	49	55	..	30	26	..
Mexico	2018	47	51	29	96	35	7	43
	2019	42	48	21	74	29	16	44
	2020	38	44	23	75	32	19	13
	2021	41	47	28	79	32	22	15
Montserrat	2018	30	30	..	..	..	..	..
	2019	28	29	..	..	..	14	..
	2020	28	29	..	..	..	21	..
	2021	32	36	..	..	..	18	..
Nicaragua	2018	36	30	33	..	49	20	59
	2019	32	29	16	..	45	18	58
	2020	27	19	42	..	34	18	57
	2021	30	23	43	..	40	19	55
Panama	2018	31	15	52	..	25	14	..
	2019	36	43	33	..	31	17	..
	2020	36	28	47	..	25	17	..
	2021	40	33	54	..	22	15	..
Paraguay	2018	77	35	77	..	..	..	..
	2019	64	46	64	..	..	..	..
	2020	60	44	60	..	..	..	..
	2021	53	45	53	..	..	..	..
Peru	2018	41	27	65	..	46	28	..
	2019	43	29	67	..	51	29	..
	2020	40	25	64	..	51	30	..
	2021	42	28	66	..	51	30	..
Puerto Rico	2018	34	36	4	..	12	6	..
	2019	35	36	5	..	18	17	..
	2020	35	36	6	..	16	18	..
	2021	36	37	5	..	19	19	..
Sint Maarten (Dutch part)	2018	36	36	..	..	..	..	..
	2019	35	35	..	..	..	..	..
	2020	30	30	..	..	..	..	..
	2021	33	33	..	..	..	..	..
St. Kitts-Nevis	2018	37	38	..	..	29	18	..
	2019	37	38	..	..	29	18	..
	2020	35	36	..	..	29	18	..
	2021	35	35	..	..	29	18	..
St. Lucia	2018	50	51	..	..	..	19	..
	2019	51	52	..	..	..	26	..
	2020	46	47	..	..	..	25	..
	2021	49	50	..	..	..	24	..

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	..	..	41	41	..	..	17
8	8	..	..	43	44	..	..	17
7	7	..	..	43	44	..	..	18
5	5	..	..	43	44	..	..	19
2	2	..	..	47	50	37	..	60
2	2	..	..	36	39	26	..	15
2	2	..	..	35	39	21	..	15
2	2	..	..	35	39	20	..	15
51	51	..	..	38	34	50	..	33
50	55	9	12	40	49	38	..	32
35	39	10	12	39	49	37	..	30
44	49	10	12	41	39	50	..	31
55	65	..	34	44	44	70	..	..
36	39	..	31	50	51	61	..	..
22	18	..	34	68	72	53	..	..
24	20	..	33	63	66	55	..	..
61	75	44	32	45	48	29	96	34
58	80	40	29	39	44	20	74	29
64	91	41	29	34	39	23	75	20
52	69	40	28	40	45	28	79	22
..	..	..	..	30	30	..	..	..
..	..	..	..	28	29	..	..	14
..	..	..	..	28	29	..	..	21
..	..	..	..	32	36	..	..	18
47	48	0	..	34	26	33	..	52
46	46	..	..	30	25	17	..	49
41	41	..	..	25	14	42	..	43
49	49	..	..	27	16	43	..	45
31	27	40	14	31	15	52	..	20
21	29	19	13	36	43	33	..	25
26	30	29	13	36	28	48	..	21
38	29	54	13	40	33	54	..	18
..	..	..	..	77	35	77	..	..
..	..	..	..	64	46	64	..	..
..	..	..	..	60	44	60	..	..
..	..	..	..	53	45	53	..	..
19	15	65	13	44	30	65	..	39
19	16	60	15	46	31	67	..	42
17	13	54	17	42	27	65	..	43
18	14	55	17	45	30	66	..	43
42	42	..	..	34	36	4	..	8
44	44	..	..	35	36	5	..	17
44	44	..	..	35	36	6	..	17
44	44	..	..	36	37	5	..	19
..	..	..	..	36	36	..	..	..
..	..	..	..	35	35	..	..	..
..	..	..	..	30	30	..	..	..
..	..	..	..	33	33	..	..	..
3	3	..	..	39	40	..	..	24
3	3	..	..	39	40	..	..	24
3	3	..	..	37	38	..	..	23
3	3	..	..	36	38	..	..	23
..	..	..	..	50	51	..	..	19
..	..	..	..	51	52	..	..	26
..	..	..	..	46	47	..	..	25
..	..	..	..	49	50	..	..	24

Table 32

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
St. Vincent-Grenadines	2018	38	38	48	..	..	11	..
	2019	36	37	44	..	..	11	..
	2020	31	32	43	..	..	12	..
	2021	30	31	38	..	..	8	..
Suriname	2018	41	29	60	..	..	16	..
	2019	42	33	60	..	..	16	..
	2020	40	39	43	..	..	16	..
	2021	34	24	54	..	..	16	..
Trinidad and Tobago	2018	49	49	..	..	67	21	..
	2019	50	50	..	..	67	18	..
	2020	42	42	..	..	67	13	..
	2021	50	50	..	..	67	15	..
Turks and Caicos Islands	2018	35	35	..	..	..	18	..
	2019	33	33	..	..	..	18	..
	2020	32	32	..	..	..	18	..
	2021	33	33	..	..	..	18	..
United States Virgin Is.	2018	21	22	..	..	31	13	..
	2019	21	22	..	..	31	14	..
	2020	22	23	..	..	0	14	..
	2021	24	24	..	..	0	14	..
Uruguay	2018	34	21	49	..	36	19	..
	2019	37	20	60	..	36	19	..
	2020	32	25	30	..	41	20	..
	2021	37	37	39	..	38	21	..
Venezuela (Bolivar. Rep.)	2018	34	20	49	..	10	9	0
	2019	27	11	47	..	14	8	0
	2020	28	10	51	..	5	8	0
	2021	27	10	45	..	4	8	0
Northern America	**2018**	**46**	**43**	**44**	**95**	**33**	**19**	**71**
	2019	**45**	**42**	**43**	**97**	**32**	**18**	**67**
	2020	**43**	**40**	**43**	**96**	**33**	**18**	**68**
	2021	**43**	**41**	**40**	**96**	**32**	**18**	**67**
Bermuda	2018	42	43	..	..	..	6	..
	2019	40	41	..	..	..	6	..
	2020	38	39	..	..	..	6	..
	2021	38	39	..	..	..	6	..
Canada	2018	51	41	54	86	30	15	28
	2019	50	40	53	87	28	15	24
	2020	49	37	54	90	30	15	32
	2021	48	37	53	85	28	15	32
Greenland	2018	34	16	52	..	..	..	..
	2019	32	15	51	..	..	..	..
	2020	35	16	54	..	..	..	..
	2021	35	16	54	..	..	..	..
St. Pierre-Miquelon	2018	22	22	..	..	..	..	..
	2019	23	23	..	..	..	..	..
	2020	22	22	..	..	..	..	..
	2021	22	22	..	..	..	..	..
United States	2018	45	43	35	97	33	19	72
	2019	44	42	35	98	33	18	68
	2020	42	40	34	97	33	18	69
	2021	42	42	30	97	33	18	69
Oceania	**2018**	**40**	**48**	**35**	**..**	**28**	**10**	**92**
	2019	**38**	**47**	**34**	**..**	**26**	**11**	**93**
	2020	**35**	**45**	**33**	**..**	**24**	**12**	**90**
	2021	**33**	**42**	**33**	**..**	**27**	**12**	**92**

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
24	..	..	24	38	38	48	..	8
23	..	..	23	36	37	44	..	8
8	..	..	8	32	32	43	..	14
8	..	..	8	30	31	38	..	7
58	52	60	..	18	18	..	..	16
61	62	60	..	20	20	..	..	16
52	68	43	..	26	26	..	..	16
55	56	54	..	12	12	..	..	16
8	8	..	..	51	51	..	..	21
9	9	..	..	51	51	..	..	18
9	9	..	..	43	43	..	..	13
9	9	..	..	52	52	..	..	16
..	..	..	..	35	35	..	..	18
..	..	..	..	33	33	..	..	18
..	..	..	..	32	32	..	..	18
..	..	..	..	33	33	..	..	18
11	..	..	11	21	22	..	..	17
13	..	..	13	22	22	..	..	17
12	..	..	12	23	23	..	..	16
11	..	..	11	24	24	..	..	19
43	48	..	5	33	11	49	..	34
41	46	..	6	37	11	60	..	34
41	46	..	7	31	18	30	..	39
41	47	..	7	37	34	39	..	36
21	21	..	50	34	20	49	..	5
18	18	..	17	28	10	47	..	7
10	10	..	17	29	10	51	..	2
10	10	..	17	27	10	45	..	2
46	**64**	**65**	**14**	**46**	**42**	**43**	**95**	**32**
44	**64**	**63**	**14**	**45**	**41**	**42**	**97**	**31**
41	**62**	**61**	**14**	**43**	**39**	**42**	**96**	**30**
37	**60**	**45**	**13**	**43**	**40**	**40**	**96**	**30**
20	33	..	6	43	43	..	..	..
20	33	..	6	41	41	..	..	..
18	27	..	6	39	39	..	..	..
18	27	..	6	40	40	..	..	..
57	61	65	16	50	37	53	86	28
56	60	64	16	50	37	53	87	27
54	59	61	16	49	33	54	90	28
46	58	45	15	48	33	53	85	26
..	..	..	..	37	19	52	..	..
..	..	..	..	35	17	51	..	..
..	..	..	..	38	19	54	..	..
..	..	..	..	38	19	54	..	..
..	..	..	..	22	22	..	..	..
..	..	..	..	23	23	..	..	..
..	..	..	..	22	22	..	..	..
..	..	..	..	22	22	..	..	..
43	64	57	14	46	43	35	97	32
42	65	49	14	45	41	34	98	31
38	62	49	13	43	39	34	97	30
35	60	46	13	43	41	30	97	30
23	**36**	**25**	**11**	**44**	**50**	**35**	**..**	**30**
24	**36**	**25**	**13**	**42**	**50**	**34**	**..**	**24**
22	**34**	**29**	**12**	**39**	**47**	**33**	**..**	**22**
20	**32**	**36**	**13**	**37**	**45**	**33**	**..**	**24**

Table 32

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	2018	41	44	..	..	..	11	..
	2019	41	45	..	..	..	11	..
	2020	41	45	..	..	..	12	..
	2021	39	42	..	..	..	12	..
Australia	2018	38	49	21	..	27	10	..
	2019	36	48	21	..	26	10	..
	2020	33	45	20	..	23	12	..
	2021	31	42	20	..	27	12	..
Cook Islands	2018	30	32	..	..	..	25	..
	2019	28	30	..	..	..	24	..
	2020	24	26	..	..	..	20	..
	2021	24	27	..	..	..	17	..
Fiji	2018	33	27	47	..	1	15	..
	2019	34	29	46	..	2	15	..
	2020	31	25	46	..	1	15	..
	2021	29	22	45	..	0	14	..
French Polynesia	2018	25	24	40	..	4	12	..
	2019	25	25	37	..	4	12	..
	2020	24	23	37	..	4	11	..
	2021	23	23	33	..	4	11	..
Guam	2018	43	45	..	..	21	20	..
	2019	43	45	..	..	21	20	..
	2020	42	44	..	..	21	19	..
	2021	42	45	..	..	21	18	..
Kiribati	2018	37	43	..	..	..	20	..
	2019	37	43	..	..	..	19	..
	2020	37	43	..	..	..	19	..
	2021	37	43	..	..	..	19	..
Marshall Islands	2018	28	29	..	..	..	11	..
	2019	29	30	..	..	..	11	..
	2020	29	30	..	..	..	11	..
	2021	29	30	..	..	..	11	..
Micronesia (Fed. States of)	2018	23	23	20	..	16	18	..
	2019	23	23	20	..	16	18	..
	2020	19	19	20	..	15	14	..
	2021	19	19	20	..	15	14	..
Nauru	2018	30	31	..	..	..	16	..
	2019	29	31	..	..	..	10	..
	2020	24	26	..	..	..	12	..
	2021	28	30	..	..	..	14	..
New Caledonia	2018	41	43	46	..	14	11	..
	2019	37	41	42	..	17	14	..
	2020	35	38	45	..	15	14	..
	2021	30	32	60	..	13	13	..
New Zealand	2018	54	41	55	..	34	13	92
	2019	54	45	54	..	37	13	93
	2020	53	46	51	..	38	13	90
	2021	51	44	51	..	33	12	92
Niue	2018	18	18	..	..	..	16	..
	2019	15	18	..	..	..	6	..
	2020	15	18	..	..	..	6	..
	2021	15	18	..	..	..	6	..
Northern Mariana Islands	2018	71	71	..	..	..	..	..
	2019	72	72	..	..	..	..	..
	2020	52	53	..	..	..	17	..
	2021	52	55	..	..	..	11	..

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
..	..	..	..	41	44	..	..	11
..	..	..	..	41	45	..	..	11
..	..	..	..	41	45	..	..	12
..	..	..	..	39	42	..	..	12
21	34	..	11	43	51	21	..	22
22	33	..	13	40	51	21	..	18
20	32	..	12	37	48	20	..	18
19	31	..	13	35	45	20	..	20
..	..	..	..	30	32	..	..	25
..	..	..	..	28	30	..	..	24
..	..	..	..	24	26	..	..	20
..	..	..	..	24	27	..	..	17
8	8	..	..	37	35	47	..	6
10	10	..	..	38	37	46	..	6
14	14	..	..	34	29	46	..	5
11	11	..	..	33	27	45	..	5
..	..	..	..	25	24	40	..	12
..	..	..	..	25	25	37	..	12
..	..	..	..	24	23	37	..	11
..	..	..	..	23	23	33	..	11
15	..	..	15	43	45	..	..	23
13	..	..	13	44	45	..	..	24
12	..	..	12	43	44	..	..	24
11	..	..	11	43	45	..	..	23
21	21	..	..	38	46	..	..	20
21	21	..	..	38	46	..	..	19
21	21	..	..	39	46	..	..	19
21	21	..	..	38	46	..	..	19
..	..	..	..	28	29	..	..	11
..	..	..	..	29	30	..	..	11
..	..	..	..	29	30	..	..	11
..	..	..	..	29	30	..	..	11
..	..	..	..	23	23	20	..	17
..	..	..	..	23	23	20	..	17
..	..	..	..	19	19	20	..	14
..	..	..	..	19	19	20	..	14
..	..	..	..	30	31	..	..	16
..	..	..	..	29	31	..	..	10
..	..	..	..	24	26	..	..	12
..	..	..	..	28	30	..	..	14
41	41	..	9	41	48	46	..	13
39	40	..	13	35	42	42	..	15
37	38	..	12	33	39	45	..	15
29	30	..	13	32	35	60	..	13
46	58	15	21	54	39	55	..	69
47	63	15	19	54	43	54	..	71
42	59	15	18	53	44	51	..	70
41	63	15	16	52	42	51	..	65
..	..	..	..	18	18	..	..	16
..	..	..	..	15	18	..	..	6
..	..	..	..	15	18	..	..	6
..	..	..	..	15	18	..	..	6
..	..	..	..	71	71	..	..	..
..	..	..	..	72	72	..	..	..
..	..	..	..	52	53	..	..	17
..	..	..	..	52	55	..	..	11

Table 32

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	2018	27	27	..	..	..	27	..
	2019	27	27	..	..	..	26	..
	2020	27	27	..	..	..	26	..
	2021	27	27	..	..	..	26	..
Papua New Guinea	2018	45	47	32	..	..	18	86
	2019	42	39	42	..	..	35	96
	2020	46	43	48	..	..	40	91
	2021	52	48	56	..	..	46	97
Samoa	2018	32	44	39	..	3	13	..
	2019	35	47	40	..	4	15	..
	2020	34	51	33	..	5	14	..
	2021	32	45	37	..	2	12	..
Solomon Islands	2018	34	35	30	..	..	13	..
	2019	35	36	30	..	..	16	..
	2020	35	36	30	..	..	15	..
	2021	35	36	30	..	..	14	..
Tonga	2018	31	40	..	..	11	8	..
	2019	32	41	..	..	2	12	..
	2020	33	41	..	..	20	12	..
	2021	33	43	..	..	20	10	..
Tuvalu	2018	20	26	..	..	..	11	..
	2019	21	27	..	..	..	11	..
	2020	19	29	..	..	..	8	..
	2021	18	29	..	..	..	7	..
Vanuatu	2018	30	31	67	..	15	26	..
	2019	29	28	68	..	21	30	..
	2020	27	25	74	..	19	30	..
	2021	27	26	74	..	14	27	..
Wallis and Futuna Is.	2018	26	26	19	..	..	10	..
	2019	27	27	20	..	..	10	..
	2020	29	30	20	..	..	10	..
	2021	30	31	21	..	..	11	..

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
57	57	..	..	25	25	..	..	27
68	68	..	..	24	24	..	..	26
68	68	..	..	25	25	..	..	26
68	68	..	..	25	25	..	..	26
56	59	25	86	31	29	35	..	18
57	60	25	96	28	18	51	..	35
60	62	30	91	34	24	55	..	40
65	66	37	97	41	30	64	..	46
10	..	..	10	32	44	39	..	13
10	..	..	10	35	47	40	..	15
11	..	..	11	34	51	33	..	13
11	..	..	11	32	45	37	..	12
34	34	..	..	34	35	30	..	13
39	39	..	..	35	36	30	..	16
37	37	..	..	35	36	30	..	15
40	40	..	..	34	36	30	..	14
..	..	..	..	31	40	..	..	8
..	..	..	..	32	41	..	..	10
..	..	..	..	33	41	..	..	14
..	..	..	..	33	43	..	..	12
..	..	..	..	20	26	..	..	11
..	..	..	..	21	27	..	..	11
..	..	..	..	19	29	..	..	8
..	..	..	..	18	29	..	..	7
..	..	..	..	30	31	67	..	20
..	..	..	..	29	28	68	..	25
..	..	..	..	27	25	74	..	24
..	..	..	..	27	26	74	..	20
..	..	..	..	26	26	19	..	10
..	..	..	..	27	27	20	..	10
..	..	..	..	29	30	20	..	10
..	..	..	..	30	31	21	..	11

Table 33

Production of electricity - by type

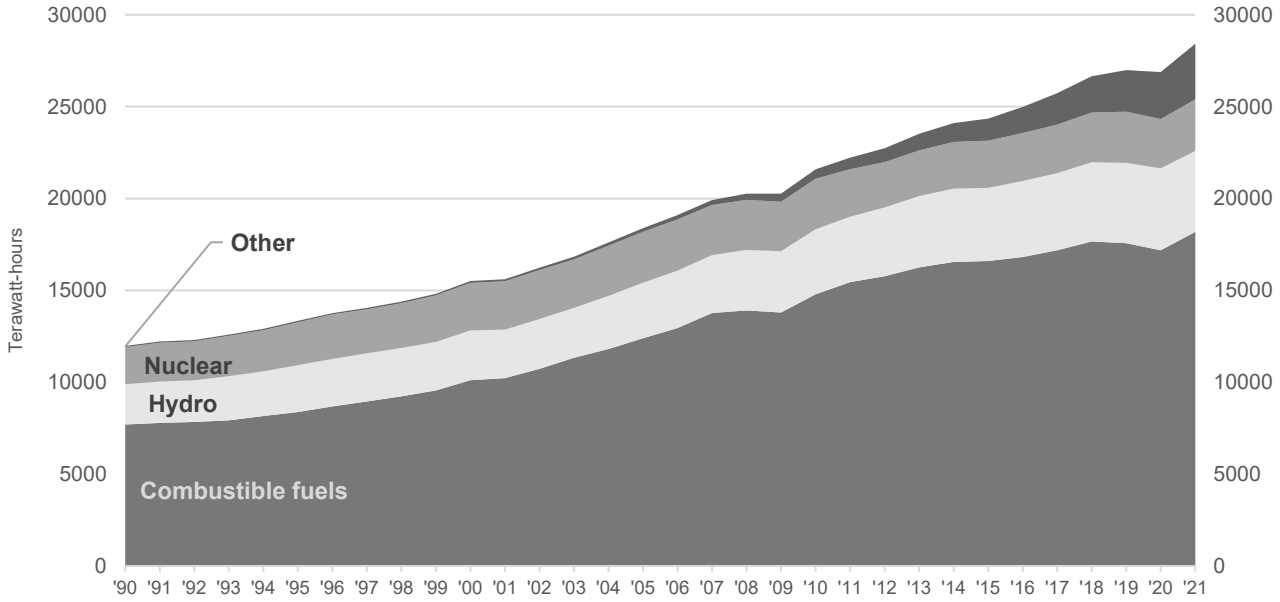
Gigawatt-hours

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.

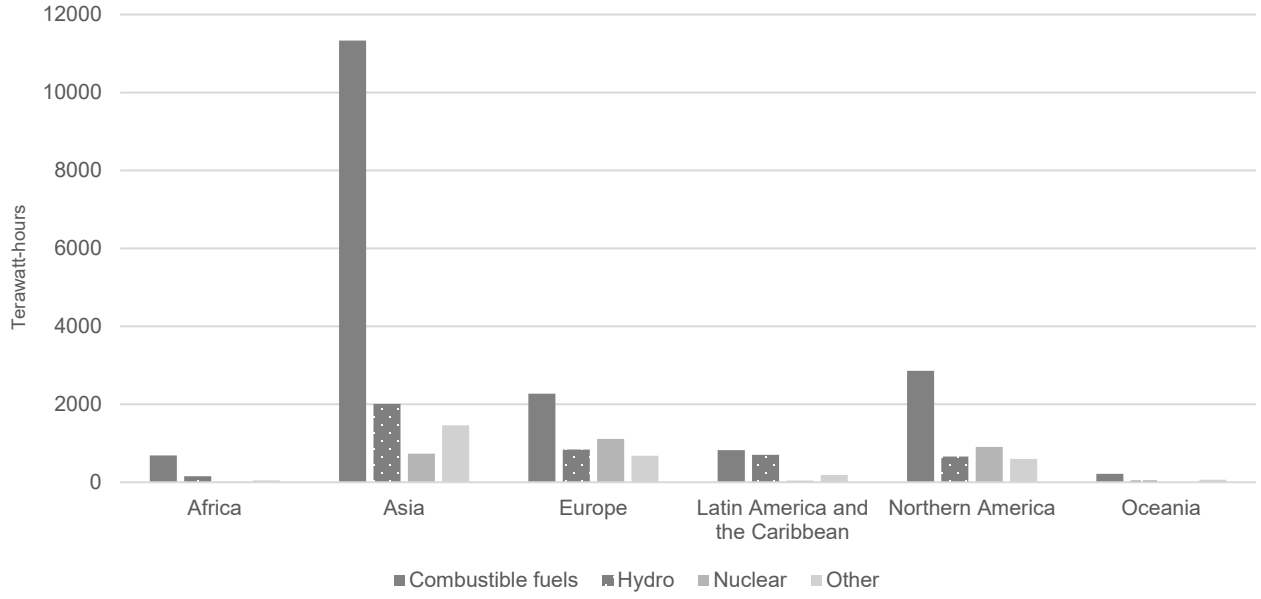
Please refer to the Definitions Section on pages ix to xv for the appropriate product description /classification, and xvi to xvii for the descriptions of relevant flows.

Figure 78: World electricity generation by source, 1990-2021



"Other" refers to wind, solar, geothermal, and other sources

Figure 79: World production of electricity by source and region, 2021



"Other" refers to wind, solar, geothermal, and other sources

Figure 80: Major countries producing electricity from combustible fuels, 2021

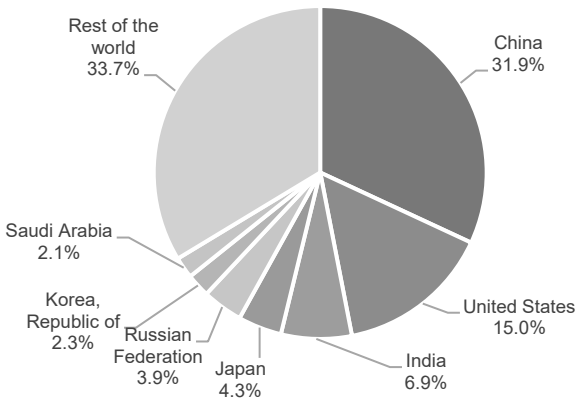


Figure 81: Major countries producing hydro electricity, 2021

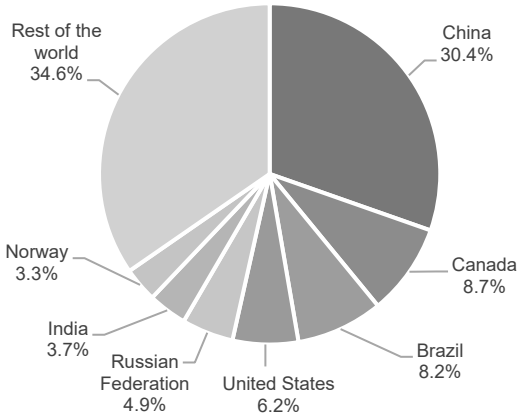


Figure 82: Major countries producing nuclear electricity, 2021

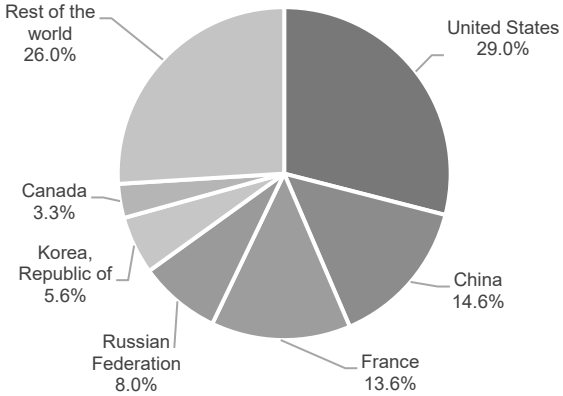


Figure 83: Major countries producing electricity from other sources, 2021

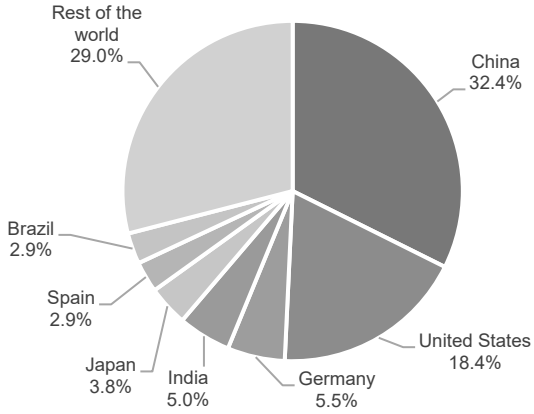


Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
World	**2018**	**26,661,706**	**17,662,670**	**4,315,606**	**2,707,874**	**1,274,159**	**564,892**	**136,506**
	2019	**26,985,732**	**17,565,625**	**4,370,409**	**2,788,601**	**1,426,384**	**694,665**	**140,048**
	2020	**26,888,335**	**17,183,112**	**4,463,418**	**2,676,398**	**1,598,649**	**837,759**	**128,999**
	2021	**28,428,472**	**18,186,994**	**4,408,347**	**2,798,855**	**1,865,520**	**1,032,607**	**136,149**
Africa	**2018**	**854,068**	**673,820**	**139,686**	**11,580**	**14,511**	**7,669**	**6,802**
	2019	**861,842**	**668,983**	**143,915**	**13,252**	**17,993**	**10,813**	**6,885**
	2020	**850,719**	**649,536**	**152,218**	**9,903**	**17,874**	**14,567**	**6,621**
	2021	**901,998**	**686,015**	**156,231**	**12,355**	**23,371**	**17,427**	**6,598**
Algeria	2018	76,662	75,880	117	..	10	655	..
	2019	81,531	80,691	152	..	10	678	..
	2020	79,154	78,432	50	..	8	*664	..
	2021	85,391	84,729	9	..	11	*642	..
Angola	2018	13,513	3,123	10,372	..	..	18	..
	2019	14,247	3,383	10,826	..	..	38	..
	2020	14,488	1,967	12,478	..	..	43	..
	2021	14,741	3,498	11,203	..	..	39	..
Benin	2018	202	197	0	..	..	5	..
	2019	529	521	0	..	..	8	..
	2020	989	982	0	..	..	7	..
	2021	1,127	1,110	..	..	..	17	..
Botswana	2018	3,105	3,100	..	..	..	5	..
	2019	2,508	2,504	..	..	..	5	..
	2020	2,182	2,176	..	..	..	6	..
	2021	2,486	2,480	..	..	..	6	..
Burkina Faso	2018	*1,728	*1,543	129	..	..	56	..
	2019	*1,554	*1,367	105	..	..	82	..
	2020	*1,427	*1,228	*112	..	..	*87	..
	2021	*1,659	*1,442	*128	..	..	*89	..
Burundi	2018	246	105	133	..	..	8	..
	2019	269	129	132	..	..	8	..
	2020	276	92	176	..	..	8	..
	2021	262	124	131	..	..	*8	..
Cabo Verde	2018	431	341	..	..	80	10	..
	2019	444	362	..	..	74	9	..
	2020	420	350	..	..	64	7	..
	2021	442	362	..	..	74	7	..
Cameroon	2018	8,590	3,547	5,023	..	..	20	..
	2019	8,483	3,234	5,229	..	..	20	..
	2020	8,650	3,660	4,945	..	..	45	..
	2021	7,940	2,987	4,907	..	..	46	..
Central African Rep.	2018	147	*1	146	..	..	0	..
	2019	149	*1	148	..	..	0	..
	2020	*146	*1	*145	..	..	0	..
	2021	*145	*1	*143	..	..	*1	..
Chad	2018	312	303	..	..	9	0	..
	2019	317	308	..	..	9	0	..
	2020	335	326	..	..	9	0	..
	2021	335	326	..	..	9	0	..
Comoros	2018	*98	*98	..	..	..	..	..
	2019	*108	*108	..	..	..	..	..
	2020	*130	*130	..	..	..	..	..
	2021	*136	*132	..	..	..	*4	..
Congo	2018	3,096	2,001	1,094	..	..	1	..
	2019	3,655	2,807	847	..	..	1	..
	2020	3,833	2,931	900	..	..	1	..
	2021	4,021	3,031	989	..	..	1	..

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
2,196,523	**1,929,937**	**76,166**	**190,420**	**24,465,183**	**15,732,733**	**4,239,440**	**2,707,874**	**1,785,137**
2,297,366	**2,003,405**	**76,036**	**217,925**	**24,688,366**	**15,562,220**	**4,294,374**	**2,788,601**	**2,043,172**
2,204,492	**1,889,879**	**72,953**	**241,660**	**24,683,843**	**15,293,233**	**4,390,465**	**2,676,398**	**2,323,747**
2,282,275	**1,921,083**	**68,741**	**292,451**	**26,146,197**	**16,265,911**	**4,339,605**	**2,798,855**	**2,741,825**
58,278	**45,284**	**688**	**12,305**	**795,790**	**628,536**	**138,998**	**11,580**	**16,676**
65,312	**51,416**	**706**	**13,189**	**796,530**	**617,567**	**143,209**	**13,252**	**22,502**
66,214	**52,394**	**849**	**12,970**	**784,505**	**597,141**	**151,369**	**9,903**	**26,092**
68,153	**50,496**	**926**	**16,731**	**833,845**	**635,519**	**155,305**	**12,355**	**30,666**
5,437	5,437	..	..	71,225	70,443	117	..	665
5,508	5,508	..	..	76,023	75,183	152	..	688
5,317	5,317	..	..	73,837	73,115	50	..	*672
5,488	5,488	..	..	79,903	79,241	9	..	*653
421	421	..	..	13,092	2,702	10,372	..	18
418	418	..	..	13,829	2,965	10,826	..	38
395	395	..	..	14,093	1,572	12,478	..	43
*400	*400	..	..	14,341	3,098	11,203	..	39
114	114	..	..	88	83	0	..	5
163	162	..	1	366	359	0	..	6
166	165	..	1	823	817	0	..	6
196	193	..	3	931	917	..	..	14
..	..	..	..	3,105	3,100	..	..	5
..	..	..	..	2,508	2,504	..	..	5
..	..	..	..	2,182	2,176	..	..	6
..	..	..	..	2,486	2,480	..	..	6
*672	*672	..	..	*1,056	*871	129	..	56
*677	*677	..	..	*877	*689	105	..	82
*608	*608	..	..	*819	*619	*112	..	*87
*715	*715	..	..	*944	*727	*128	..	*89
6	6	..	..	240	99	133	..	8
5	5	..	..	264	124	132	..	8
6	6	..	..	270	87	176	..	8
*6	*6	..	..	257	118	131	..	*8
*1	*1	..	..	430	340	..	..	90
*1	*1	..	..	444	361	..	..	83
*1	*1	..	..	419	349	..	..	70
*1	*1	..	..	442	361	..	..	81
3,252	3,252	..	..	5,337	295	5,023	..	20
2,996	2,996	..	..	5,487	238	5,229	..	20
3,478	3,478	..	..	5,173	182	4,945	..	45
2,862	2,862	..	..	5,078	126	4,907	..	46
..	..	..	..	147	*1	146	..	0
..	..	..	..	149	*1	148	..	0
..	..	..	..	*146	*1	*145	..	0
..	..	..	..	*145	*1	*143	..	*1
..	..	..	..	312	303	..	..	9
..	..	..	..	317	308	..	..	9
..	..	..	..	335	326	..	..	9
..	..	..	..	335	326	..	..	9
..	..	..	..	*98	*98	..	..	..
..	..	..	..	*108	*108	..	..	..
..	..	..	..	*130	*130	..	..	..
..	..	..	..	*136	*132	..	..	*4
2,001	2,001	..	..	1,095	..	1,094	..	1
2,807	2,807	..	..	848	..	847	..	1
2,931	2,931	..	..	901	..	900	..	1
3,031	3,031	..	..	990	..	989	..	1

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Côte d'Ivoire	2018	10,058	7,096	2,962	..	..	..	..
	2019	10,697	7,197	3,481	..	..	18	..
	2020	11,274	7,887	3,376	..	..	11	..
	2021	11,579	8,935	2,626	..	..	18	..
Dem. Rep. of the Congo	2018	10,556	39	10,516	..	..	0	..
	2019	11,491	8	11,483	..	..	0	..
	2020	12,460	7	12,453	..	..	0	..
	2021	13,135	3	13,131	..	..	1	..
Djibouti	2018	55	55	..	..	..	1	..
	2019	92	91	..	..	..	1	..
	2020	126	125	..	..	..	*1	..
	2021	*126	*125	..	..	..	*1	..
Egypt	2018	202,838	187,341	12,726	..	2,234	537	..
	2019	194,279	175,998	13,121	..	3,689	1,471	..
	2020	197,201	173,500	15,038	..	4,233	4,430	..
	2021	222,544	196,649	14,769	..	6,251	4,875	..
Equatorial Guinea	2018	1,355	912	443	..	..	..	..
	2019	*1,912	*1,292	*620	..	..	..	..
	2020	*2,038	*1,418	*620	..	..	..	..
	2021	*1,770	*1,150	*620	..	..	..	..
Eritrea	2018	352	340	..	..	2	10	..
	2019	363	350	..	..	2	11	..
	2020	375	361	..	..	2	13	..
	2021	385	371	..	..	2	12	..
Eswatini	2018	520	311	209	..	..	0	..
	2019	585	313	270	..	..	2	..
	2020	541	310	229	..	..	*2	..
	2021	581	313	258	..	..	10	..
Ethiopia	2018	14,554	31	13,655	..	848	20	..
	2019	15,068	35	14,404	..	609	20	..
	2020	15,829	35	14,943	..	818	32	..
	2021	15,538	29	14,914	..	561	34	..
Gabon	2018	2,295	1,307	987	..	..	2	..
	2019	2,306	1,318	987	..	..	2	..
	2020	2,423	1,434	987	..	..	2	..
	2021	2,344	1,356	987	..	..	2	..
Gambia	2018	394	388	..	..	2	*4	..
	2019	462	456	..	..	2	4	..
	2020	485	478	..	..	2	4	..
	2021	516	510	..	..	2	4	..
Ghana	2018	16,425	10,375	6,017	..	..	33	..
	2019	18,368	11,065	7,252	..	..	52	..
	2020	20,170	12,820	7,293	..	..	57	..
	2021	22,051	14,408	7,521	..	..	122	..
Guinea	2018	1,884	*702	1,182	..	..	..	..
	2019	2,020	*740	1,280	..	..	..	..
	2020	2,420	*935	1,484	..	..	..	..
	2021	2,995	*359	2,635	..	..	..	..
Guinea-Bissau	2018	*82	*80	..	..	..	2	..
	2019	*82	*80	..	..	..	2	..
	2020	*82	*80	..	..	..	2	..
	2021	*82	*80	..	..	..	2	..
Kenya	2018	11,182	1,679	3,986	..	376	14	5,128
	2019	11,621	1,526	3,205	..	1,563	92	5,235
	2020	11,604	891	4,233	..	1,331	88	5,060
	2021	12,377	1,512	3,675	..	1,985	167	5,037

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
61	61	..	..	9,997	7,035	2,962	..	..
65	65	..	..	10,631	7,132	3,481	..	18
72	72	..	..	11,202	7,815	3,376	..	11
137	137	..	..	11,442	8,798	2,626	..	18
33	33	..	..	10,523	7	10,516	..	0
..	..	..	..	11,491	8	11,483	..	0
..	..	..	..	12,460	7	12,453	..	0
..	..	..	..	13,135	3	13,131	..	1
..	..	..	..	55	55	..	..	1
..	..	..	..	92	91	..	..	1
..	..	..	..	126	125	..	..	*1
..	..	..	..	*126	*125	..	..	*1
6,078	6,078	..	..	196,760	181,263	12,726	..	2,771
11,554	11,554	..	..	182,725	164,444	13,121	..	5,160
11,408	11,408	..	..	185,793	162,092	15,038	..	8,663
11,188	11,188	..	..	211,356	185,461	14,769	..	11,126
..	..	..	..	1,355	912	443	..	..
..	..	..	..	*1,912	*1,292	*620	..	..
..	..	..	..	*2,038	*1,418	*620	..	..
..	..	..	..	*1,770	*1,150	*620	..	..
19	19	..	..	333	321	..	..	12
19	19	..	..	344	331	..	..	13
19	19	..	..	357	342	..	..	15
19	19	..	..	366	352	..	..	14
312	311	*1	0	208	..	208	..	..
316	313	*1	2	269	..	269	..	..
313	310	*1	*2	227	..	227	..	..
317	313	*1	*2	264	..	256	..	8
26	26	..	..	14,528	5	13,655	..	868
30	30	..	..	15,038	5	14,404	..	629
30	30	..	..	15,799	5	14,943	..	850
23	23	..	..	15,515	6	14,914	..	594
226	218	6	2	2,069	1,088	981	..	..
222	214	6	2	2,085	1,104	981	..	..
243	236	6	2	2,179	1,198	981	..	..
210	202	6	2	2,135	1,154	981	..	..
*37	*37	..	..	356	351	..	..	*6
*38	*38	..	..	425	418	..	..	6
*38	*38	..	..	447	440	..	..	6
*38	*38	..	..	478	472	..	..	6
*180	*180	..	..	16,245	10,195	6,017	..	33
*180	*180	..	..	18,188	10,885	7,252	..	52
..	..	..	..	20,170	12,820	7,293	..	57
..	..	..	..	22,051	14,408	7,521	..	122
*593	*593	..	..	1,290	*109	1,182	..	..
*625	*625	..	..	1,394	*115	1,280	..	..
*819	*819	..	..	1,600	*116	1,484	..	..
*233	*233	..	..	2,761	*126	2,635	..	..
*19	*19	..	..	*63	*61	..	..	2
*19	*19	..	..	*63	*61	..	..	2
*19	*19	..	..	*63	*61	..	..	2
*19	*19	..	..	*63	*61	..	..	2
133	133	..	..	11,049	1,546	3,986	..	5,517
212	212	..	..	11,408	1,313	3,205	..	6,890
137	137	..	..	11,467	755	4,233	..	6,480
274	250	24	..	12,103	1,262	3,651	..	7,189

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Lesotho	2018	517	1	517	..	..	..	..
	2019	393	1	392	..	..	..	..
	2020	427	*1	426	..	..	..	..
	2021	532	*1	531	..	..	..	..
Liberia	2018	*405	*277	*124	..	..	*4	..
	2019	*418	*290	*124	..	..	*4	..
	2020	*446	*318	*124	..	..	*4	..
	2021	478	*249	223	..	..	*5	..
Libya	2018	34,171	34,164	..	..	..	8	..
	2019	34,629	34,621	..	..	..	8	..
	2020	29,499	29,491	..	..	..	8	..
	2021	31,020	31,011	..	..	..	9	..
Madagascar	2018	2,099	1,107	968	..	0	*23	..
	2019	2,178	1,259	886	..	0	32	..
	2020	2,167	1,317	818	..	0	32	..
	2021	2,273	1,477	767	..	0	28	..
Malawi	2018	1,803	*385	1,365	..	..	53	..
	2019	1,937	*125	1,647	..	..	165	..
	2020	*1,882	*68	*1,647	..	..	168	..
	2021	*1,955	*130	*1,655	..	..	*170	..
Mali	2018	*3,289	*1,991	*1,267	..	..	31	..
	2019	3,535	*2,137	1,365	..	..	33	..
	2020	3,728	*2,191	1,444	..	..	93	..
	2021	*3,969	*2,381	*1,473	..	..	115	..
Mauritania	2018	1,281	1,023	..	..	110	148	..
	2019	1,477	1,216	..	..	*112	*149	..
	2020	*1,461	*1,178	..	..	138	145	..
	2021	*1,364	*1,080	..	..	*139	*145	..
Mauritius	2018	3,131	2,943	125	..	15	49	..
	2019	3,237	2,994	99	..	15	128	..
	2020	2,883	2,603	116	..	18	146	..
	2021	2,992	2,719	107	..	15	151	..
Morocco	2018	35,822	27,708	1,998	..	3,863	950	1,302
	2019	41,650	32,390	1,654	..	4,723	1,581	1,302
	2020	40,057	31,353	1,290	..	4,592	1,520	1,302
	2021	42,562	33,120	1,213	..	5,107	1,820	1,302
Mozambique	2018	17,140	3,239	13,899	..	..	1	..
	2019	18,981	4,021	14,930	..	..	31	..
	2020	19,026	3,253	15,703	..	..	70	..
	2021	18,863	3,326	15,468	..	..	69	..
Namibia	2018	1,437	21	1,144	..	22	250	..
	2019	1,402	52	954	..	22	375	..
	2020	2,012	65	1,505	..	22	421	..
	2021	1,467	41	968	..	22	437	..
Niger	2018	480	447	..	..	..	33	..
	2019	626	593	..	..	..	33	..
	2020	635	610	..	..	..	24	..
	2021	*658	*612	..	..	..	*46	..
Nigeria	2018	33,384	25,657	7,695	..	3	28	..
	2019	33,110	24,633	8,433	..	3	41	..
	2020	35,059	27,324	7,690	..	*3	42	..
	2021	36,038	28,046	7,943	..	..	49	..
Rwanda	2018	759	403	338	..	..	18	..
	2019	798	393	387	..	..	18	..
	2020	838	326	494	..	..	18	..
	2021	976	414	545	..	..	18	..

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	517	1	517	..	..
..	..	..	..	393	1	392	..	..
..	..	..	..	427	*1	426	..	..
..	..	..	..	532	*1	531	..	..
*204	*200	..	*4	*201	*77	*124	..	..
*204	*200	..	*4	*214	*90	*124	..	..
*204	*200	..	*4	*242	*118	*124	..	..
*205	*200	..	*5	273	49	223	..	0
..	..	..	..	34,171	34,164	..	..	8
..	..	..	..	34,629	34,621	..	..	8
..	..	..	..	29,499	29,491	..	..	8
..	..	..	..	31,020	31,011	..	..	9
*279	*279	..	..	1,820	829	968	..	*23
*285	*285	..	..	1,892	974	886	..	32
*298	*298	..	..	1,869	1,018	818	..	32
*334	*334	..	..	1,940	1,143	767	..	29
*385	*380	*5	..	1,418	*5	1,360	..	53
*125	*120	*5	..	1,812	*5	1,642	..	165
*68	*63	*5	..	*1,814	*5	*1,642	..	168
*130	*125	*5	..	*1,825	*5	*1,650	..	*170
*1,070	*1,042	..	28	*2,218	949	*1,267	..	3
*1,124	*1,093	..	31	2,411	1,044	1,365	..	2
*1,133	*1,101	..	32	2,595	1,090	1,444	..	61
*1,163	*1,131	..	*32	*2,806	*1,250	*1,473	..	83
*356	*346	..	*10	925	677	..	..	248
375	362	..	13	1,102	854	..	..	*248
379	368	..	12	*1,081	*810	..	..	271
384	370	..	14	*980	*710	..	..	*270
1,758	1,697	..	62	1,373	1,246	125	..	3
1,755	1,614	..	141	1,482	1,381	99	..	3
1,682	1,521	..	161	1,201	1,082	116	..	3
1,766	1,604	..	162	1,226	1,114	107	..	5
1,389	..	..	1,389	34,432	27,708	1,998	..	4,726
1,567	176	..	1,391	40,083	32,214	1,654	..	6,216
1,660	283	..	1,378	38,396	31,070	1,290	..	6,036
1,620	235	..	1,385	40,942	32,885	1,213	..	6,845
213	213	..	..	16,927	3,027	13,899	..	1
222	222	..	..	18,759	3,799	14,930	..	31
210	210	..	..	18,816	3,043	15,703	..	70
210	210	..	..	18,653	3,116	15,468	..	69
..	..	..	..	1,437	21	1,144	..	272
..	..	..	..	1,402	52	954	..	396
..	..	..	..	2,012	65	1,505	..	442
..	..	..	..	1,467	41	968	..	458
43	*11	..	33	437	437	..	..	..
*91	*58	..	33	535	535	..	..	..
157	145	..	13	477	465	..	..	12
*108	*62	..	*46	*550	*550	..	..	..
5,795	5,607	157	31	27,589	20,051	7,538	..	..
5,599	5,383	172	44	27,511	19,250	8,261	..	..
6,173	5,971	157	45	28,886	21,353	7,533	..	..
6,339	6,129	162	49	29,698	21,917	7,781	..	..
*2	*2	..	..	757	401	338	..	18
*2	*2	..	..	796	391	387	..	18
*2	*2	..	..	836	324	494	..	18
*2	*2	..	..	974	412	545	..	18

Table 33

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	2018	*110	*103	6	..	..	0	..
	2019	110	103	6	..	..	0	..
	2020	*110	*103	*6	..	..	0	..
	2021	*109	*103	*6	..	..	0	..
Senegal	2018	4,502	4,333	..	..	..	80	89
	2019	*4,453	*4,081	..	..	23	*291	58
	2020	5,804	5,159	..	..	217	*385	43
	2021	6,515	5,410	..	..	400	670	36
Seychelles	2018	518	507	..	..	7	4	..
	2019	540	531	..	..	5	4	..
	2020	535	523	..	..	6	6	..
	2021	536	517	..	..	5	14	..
Sierra Leone	2018	320	91	223	..	..	6	..
	2019	260	17	237	..	..	6	..
	2020	253	11	236	..	..	6	..
	2021	251	15	230	..	..	6	..
Somalia	2018	367	350	..	..	6	11	..
	2019	367	350	..	..	6	11	..
	2020	370	340	..	..	6	24	..
	2021	383	340	..	..	6	37	..
South Africa	2018	256,064	228,082	5,694	11,580	6,467	4,241	..
	2019	252,639	222,163	5,791	13,252	6,624	4,809	..
	2020	239,715	212,410	6,239	9,903	5,937	5,226	..
	2021	244,383	210,235	6,784	12,355	8,356	6,653	..
South Sudan	2018	548	538	..	..	..	10	..
	2019	557	546	..	..	..	11	..
	2020	558	547	..	..	..	11	..
	2021	583	566	..	..	..	17	..
St. Helena and Depend.	2018	12	8	..	..	3	2	..
	2019	12	9	..	..	2	1	..
	2020	11	8	..	..	2	1	..
	2021	11	8	..	..	1	1	..
Sudan	2018	16,398	6,721	9,657	..	..	21	..
	2019	16,814	6,583	10,210	..	..	21	..
	2020	17,642	6,613	11,008	..	..	*21	..
	2021	*16,775	*6,693	*10,061	..	..	*21	..
Togo	2018	588	389	196	..	..	3	..
	2019	718	476	236	..	..	6	..
	2020	699	547	144	..	..	8	..
	2021	848	627	163	..	..	57	..
Tunisia	2018	21,012	20,085	17	..	453	174	283
	2019	22,140	21,038	66	..	500	245	291
	2020	21,633	20,572	46	..	465	333	216
	2021	22,143	20,999	28	..	425	467	223
Uganda	2018	4,040	405	3,602	..	..	32	..
	2019	4,364	300	3,986	..	..	78	..
	2020	4,447	246	4,083	..	..	118	..
	2021	4,769	334	4,334	..	..	101	..
United Rep. of Tanzania	2018	7,543	5,055	*2,400	..	..	88	..
	2019	7,837	5,270	2,477	..	..	89	..
	2020	7,855	4,664	3,139	..	..	51	..
	2021	8,667	5,533	3,086	..	..	47	..
Zambia	2018	16,282	2,574	13,706	..	..	1	..
	2019	15,115	2,669	12,329	..	..	118	..
	2020	15,237	2,294	12,793	..	..	150	..
	2021	17,718	1,498	16,073	..	..	148	..

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	*110	*103	6	..	0
..	..	..	..	110	103	6	..	0
..	..	..	..	*110	*103	*6	..	0
..	..	..	..	*109	*103	*6	..	0
1,134	965	..	169	3,368	3,368	..	..	..
1,026	869	..	*158	*3,427	*3,212	..	..	*214
805	631	..	*174	4,999	4,528	..	..	*472
930	763	..	*167	5,586	4,647	..	..	939
*90	*90	..	..	428	417	..	..	11
*92	*92	..	..	448	439	..	..	9
*93	*93	..	..	442	430	..	..	12
*93	*93	..	..	443	424	..	..	19
4	4	..	..	316	87	223	..	6
4	4	..	..	256	13	237	..	6
*4	*4	..	..	249	7	236	..	6
*4	*4	..	..	247	11	230	..	6
..	..	..	..	367	350	..	..	17
..	..	..	..	367	350	..	..	17
..	..	..	..	370	340	..	..	30
..	..	..	..	383	340	..	..	43
23,261	13,163	75	10,023	232,803	214,919	5,619	11,580	685
24,159	13,385	43	10,731	228,480	208,778	5,748	13,252	702
24,523	13,932	57	10,534	215,192	198,478	6,182	9,903	629
26,733	12,512	98	14,124	217,650	197,724	6,686	12,355	885
48	43	..	5	500	495	..	..	5
49	43	..	6	508	503	..	..	5
50	44	..	6	508	503	..	..	5
55	46	..	9	528	520	..	..	8
..	..	..	..	12	8	..	..	4
..	..	..	..	12	9	..	..	3
..	..	..	..	11	8	..	..	3
..	..	..	..	11	8	..	..	2
122	122	..	..	16,277	6,599	9,657	..	21
109	109	..	..	16,705	6,474	10,210	..	21
*108	*108	..	..	17,534	6,505	11,008	..	*21
*107	*107	..	..	*16,667	*6,585	*10,061	..	*21
7	4	..	3	581	385	196	..	..
12	7	..	5	706	469	236	..	0
10	4	..	7	688	543	144	..	1
10	4	..	6	837	624	163	..	51
1,467	1,010	..	457	19,545	19,075	17	..	453
1,591	1,055	..	536	20,549	19,983	66	..	500
1,594	1,045	..	549	20,039	19,527	46	..	465
1,752	1,074	..	678	20,391	19,925	28	..	437
651	207	444	..	3,389	199	3,158	..	32
677	197	480	..	3,687	103	3,506	..	78
812	188	624	..	3,635	58	3,459	..	118
913	282	631	..	3,856	52	3,703	..	101
95	7	..	88	7,447	5,047	*2,400	..	..
98	8	..	89	7,739	5,262	2,477	..	..
59	8	..	51	7,795	4,656	3,139	..	..
55	8	..	47	8,612	5,525	3,086	..	..
78	78	..	..	16,203	2,496	13,706	..	1
78	78	..	..	15,037	2,591	12,329	..	118
78	78	..	..	15,159	2,216	12,793	..	150
*83	*83	..	..	17,636	1,415	16,073	..	148

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Zimbabwe	2018	9,369	4,320	5,049	..	..	..	..
	2019	8,402	4,236	4,166	..	..	..	..
	2020	6,673	2,843	3,805	..	..	24	..
	2021	8,454	2,508	5,928	..	..	18	..
Asia	**2018**	**13,795,921**	**10,512,898**	**1,864,499**	**576,945**	**471,187**	**314,112**	**56,279**
	2019	**14,235,508**	**10,614,589**	**1,987,136**	**655,650**	**521,416**	**398,053**	**58,665**
	2020	**14,481,297**	**10,678,151**	**2,024,052**	**659,028**	**585,745**	**473,740**	**60,582**
	2021	**15,533,270**	**11,331,663**	**2,010,548**	**733,376**	**798,740**	**592,875**	**66,067**
Afghanistan	2018	1,301	200	1,066	..	..	35	..
	2019	1,626	183	1,388	..	..	55	..
	2020	1,371	124	1,181	..	..	66	..
	2021	*1,409	*130	*1,215	..	..	*64	..
Armenia	2018	7,791	3,376	2,318	2,076	2	19	..
	2019	7,680	3,047	2,371	2,198	3	61	..
	2020	7,839	3,166	1,778	2,756	2	137	..
	2021	7,879	3,384	2,202	1,998	1	294	..
Azerbaijan	2018	25,229	23,339	1,768	..	83	39	..
	2019	26,073	24,359	1,565	..	105	44	..
	2020	25,839	24,627	1,070	..	96	47	..
	2021	27,889	26,464	1,277	..	91	56	..
Bahrain	2018	29,516	29,506	..	..	*1	*9	..
	2019	33,453	33,442	..	..	*1	*10	..
	2020	33,374	33,363	..	..	*1	*10	..
	2021	33,887	33,874	..	..	1	12	..
Bangladesh	2018	*77,935	*76,552	1,086	..	6	291	..
	2019	85,046	83,925	769	..	6	347	..
	2020	85,500	84,207	875	..	6	413	..
	2021	95,481	94,303	694	..	6	477	..
Bhutan	2018	6,960	0	6,959	..	1	0	..
	2019	8,858	0	8,857	..	*1	0	..
	2020	11,371	0	11,370	..	1	0	..
	2021	11,371	0	11,370	..	0	0	..
Brunei Darussalam	2018	4,294	4,292	..	..	..	2	..
	2019	4,933	4,931	..	..	..	2	..
	2020	5,736	5,734	..	..	..	2	..
	2021	5,700	5,695	..	..	..	4	..
Cambodia	2018	8,328	3,575	4,737	..	..	17	..
	2019	8,995	4,872	4,025	..	..	98	..
	2020	8,982	4,604	4,073	..	..	306	..
	2021	10,159	4,193	5,322	..	..	643	..
China	2018	7,166,133	5,096,318	1,231,787	294,359	365,971	177,517	181
	2019	7,503,458	5,220,150	1,304,440	348,350	406,030	224,460	28
	2020	7,779,060	5,330,250	1,355,210	366,250	466,470	260,857	23
	2021	8,534,273	5,805,870	1,339,000	407,520	656,100	325,760	*23
China, Hong Kong SAR	2018	36,565	36,565	..	..	..	..	..
	2019	36,911	36,911	..	..	..	..	..
	2020	35,189	35,189	..	..	..	..	..
	2021	37,071	37,071	..	..	..	..	..
China, Macao SAR	2018	653	653	..	..	..	0	..
	2019	830	830	..	..	..	0	..
	2020	562	562	..	..	..	0	..
	2021	496	496	..	..	..	0	..
Cyprus	2018	5,061	4,640	..	..	221	199	..
	2019	5,141	4,685	..	..	239	218	..
	2020	4,849	4,313	..	..	240	296	..
	2021	5,119	4,405	..	..	246	468	..

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
206	206	..	..	9,163	4,114	5,049	..	..
210	210	..	..	8,192	4,026	4,166	..	..
109	109	..	..	6,564	2,734	3,805	..	24
0	0	..	..	8,454	2,508	5,928	..	18
1,217,765	**1,118,728**	**10,054**	**88,983**	**12,578,155**	**9,394,170**	**1,854,445**	**576,945**	**752,596**
1,288,951	**1,176,856**	**10,631**	**101,463**	**12,946,557**	**9,437,732**	**1,976,504**	**655,650**	**876,671**
1,188,343	**1,071,488**	**9,970**	**106,884**	**13,292,954**	**9,606,663**	**2,014,081**	**659,028**	**1,013,183**
1,228,878	**1,096,172**	**13,663**	**119,043**	**14,304,392**	**10,235,491**	**1,996,885**	**733,376**	**1,338,640**
*322	*7	*280	35	979	193	786	..	..
*340	*6	*300	34	1,286	177	1,088	..	21
*340	*6	*300	34	1,031	118	881	..	32
*335	*6	*295	*34	*1,074	*124	*920	..	*30
14	..	..	14	7,777	3,376	2,318	2,076	7
47	..	..	47	7,632	3,047	2,371	2,198	17
115	..	..	115	7,723	3,166	1,778	2,756	23
204	..	..	204	7,675	3,384	2,202	1,998	91
2,096	2,096	..	0	23,133	21,243	1,768	..	122
2,069	2,069	..	0	24,004	22,290	1,565	..	150
2,158	2,155	3	0	23,681	22,471	1,067	..	143
2,158	2,155	2	*1	25,731	24,309	1,276	..	147
11,683	11,683	..	..	17,833	17,823	..	..	*10
15,236	15,236	..	..	18,217	18,206	..	..	*11
15,427	15,427	..	..	17,947	17,936	..	..	*11
15,538	15,538	..	..	18,349	18,336	..	..	13
17,475	17,475	..	..	*60,460	*59,077	1,086	..	297
17,161	17,161	..	..	67,885	66,764	769	..	353
16,517	16,517	..	..	68,983	67,690	875	..	419
18,507	18,507	..	..	76,974	75,797	694	..	483
..	..	..	..	6,960	0	6,959	..	2
..	..	..	..	8,858	0	8,857	..	*2
..	..	..	..	11,371	0	11,370	..	2
..	..	..	..	11,371	0	11,370	..	1
440	440	..	..	3,853	3,852	..	..	2
912	912	..	..	4,021	4,019	..	..	2
1,662	1,662	..	..	4,074	4,073	..	..	2
1,652	1,648	..	4	4,048	4,047	..	..	1
..	..	..	..	8,328	3,575	4,737	..	17
..	..	..	..	8,995	4,872	4,025	..	98
..	..	..	..	8,982	4,604	4,073	..	306
..	..	..	..	10,159	4,193	5,322	..	643
413,311	413,311	..	..	6,752,822	4,683,007	1,231,787	294,359	543,669
423,354	423,354	..	..	7,080,104	4,796,796	1,304,440	348,350	630,518
432,283	432,283	..	..	7,346,777	4,897,967	1,355,210	366,250	727,350
470,856	470,856	..	..	8,063,417	5,335,014	1,339,000	407,520	981,883
..	..	..	..	36,565	36,565	..	..	..
..	..	..	..	36,911	36,911	..	..	..
..	..	..	..	35,189	35,189	..	..	..
..	..	..	..	37,071	37,071	..	..	..
179	179	..	0	474	474	..	..	..
217	217	..	0	613	613	..	..	..
189	189	..	0	373	373	..	..	..
209	209	..	0	287	287	..	..	..
122	51	..	71	4,938	4,589	..	..	349
138	51	..	87	5,003	4,633	..	..	370
150	52	..	98	4,699	4,261	..	..	438
225	53	..	172	4,894	4,352	..	..	542

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Georgia	2018	12,149	2,115	9,949	..	84	..	..
	2019	11,857	2,840	8,932	..	85	..	..
	2020	11,160	2,821	8,248	..	91	..	..
	2021	12,645	2,380	10,182	..	83	..	..
India	2018	1,521,958	1,244,959	135,164	37,813	*64,294	*39,728	..
	2019	1,576,740	1,253,707	156,049	46,472	*69,949	*50,563	..
	2020	*1,533,307	*1,200,660	*160,909	*43,029	*67,418	*61,291	..
	2021	*1,610,082	*1,247,823	*162,441	*47,112	77,140	*75,566	..
Indonesia	2018	275,657	242,665	19,774	..	..	7	13,212
	2019	281,248	247,723	20,435	..	..	10	13,080
	2020	276,504	240,582	21,624	..	..	9	14,289
	2021	289,471	252,870	19,580	..	..	120	16,901
Iran (Islamic Rep. of)	2018	309,642	285,569	15,765	7,450	518	340	..
	2019	311,458	287,539	15,873	6,757	616	673	..
	2020	336,239	313,487	15,887	5,527	754	584	..
	2021	344,161	323,803	15,887	3,093	759	619	..
Iraq	2018	81,292	79,417	1,818	..	..	57	..
	2019	87,370	82,350	4,963	..	..	57	..
	2020	85,433	81,214	4,162	..	..	57	..
	2021	86,164	82,761	3,346	..	..	57	..
Israel	2018	68,894	66,978	0	..	183	1,574	159
	2019	72,351	68,796	..	..	190	3,115	250
	2020	72,285	67,702	..	..	204	4,163	216
	2021	73,796	68,054	..	..	178	5,351	214
Japan	2018	1,067,252	822,287	88,348	64,929	7,481	62,668	21,539
	2019	1,039,148	789,025	87,653	63,779	7,617	69,382	21,692
	2020	1,017,285	783,015	87,548	38,752	8,970	79,087	19,913
	2021	1,049,910	773,762	88,825	70,805	9,428	86,094	20,995
Jordan	2018	20,476	18,332	23	..	707	1,415	..
	2019	20,995	18,016	18	..	875	2,086	..
	2020	20,952	16,675	18	..	1,407	2,852	..
	2021	21,289	16,168	19	..	1,596	3,507	..
Kazakhstan	2018	107,605	96,364	10,395	..	461	384	..
	2019	106,878	95,346	9,994	..	707	831	..
	2020	110,890	98,711	9,660	..	1,029	1,490	..
	2021	115,078	102,493	9,208	..	1,747	1,629	..
Korea, Dem.Ppl's.Rep.	2018	24,949	12,100	12,800	..	..	49	..
	2019	23,853	12,800	11,000	..	..	53	..
	2020	24,053	11,200	12,800	..	..	53	..
	2021	25,566	9,400	16,100	..	..	66	..
Korea, Republic of	2018	590,129	435,310	7,270	133,505	2,465	9,208	2,370
	2019	581,492	410,786	6,249	145,910	2,681	12,996	2,870
	2020	578,595	386,067	7,148	160,184	3,151	17,967	4,077
	2021	611,759	415,291	6,737	158,015	3,182	23,395	5,138
Kuwait	2018	74,157	74,099	..	..	38	20	..
	2019	75,203	75,071	..	..	36	96	..
	2020	74,956	74,743	..	..	33	180	..
	2021	80,757	80,569	..	..	29	159	..
Kyrgyzstan	2018	15,728	1,410	14,318	..	..	..	..
	2019	15,100	1,256	13,844	..	..	..	..
	2020	15,404	1,425	13,979	..	..	..	..
	2021	14,815	1,858	12,957	..	..	..	..
Lao People's Dem. Rep.	2018	36,762	13,703	22,999	..	..	60	..
	2019	31,133	12,194	18,899	..	..	40	..
	2020	*39,967	*13,665	*26,262	..	..	*41	..
	2021	*44,931	*13,798	*31,072	..	..	61	..

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	12,149	2,115	9,949	..	84
..	..	..	..	11,857	2,840	8,932	..	85
..	..	..	..	11,160	2,821	8,248	..	91
..	..	..	..	12,645	2,380	10,182	..	83
175,633	172,645	270	*2,718	1,346,325	1,072,314	134,894	37,813	*101,304
217,942	210,869	280	*6,793	1,358,798	1,042,838	155,769	46,472	*113,719
*182,041	*173,533	*351	*8,157	*1,351,266	*1,027,127	*160,558	*43,029	*120,552
*136,055	*125,123	*350	*10,582	*1,474,027	*1,122,700	*162,091	*47,112	*142,124
47,059	47,059	..	..	228,599	195,606	19,774	..	13,218
44,799	44,113	686	..	236,449	203,610	19,749	..	13,089
37,555	36,735	820	..	238,950	203,848	20,804	..	14,298
39,805	37,975	1,830	..	249,666	214,895	17,750	..	17,021
5,258	5,258	..	..	304,384	280,311	15,765	7,450	858
5,879	5,879	..	..	305,578	281,660	15,873	6,757	1,288
6,120	6,120	..	..	330,119	307,367	15,887	5,527	1,338
6,337	6,337	..	..	337,824	317,466	15,887	3,093	1,379
57	..	..	57	81,235	79,417	1,818	..	..
57	..	..	57	87,313	82,350	4,963	..	..
57	..	..	57	85,376	81,214	4,162	..	..
57	..	..	57	86,107	82,761	3,346	..	..
5,047	3,131	0	1,916	63,847	63,847	0	..	0
6,845	3,796	..	3,049	65,506	65,000	..	..	505
8,072	4,128	..	3,945	64,212	63,574	..	..	638
9,322	4,355	..	4,966	64,475	63,698	..	..	776
160,738	85,142	3,290	72,306	906,514	737,145	85,058	64,929	19,382
160,849	80,989	3,328	76,532	878,298	708,036	84,325	63,779	22,158
159,422	74,957	2,999	81,466	857,863	708,059	84,549	38,752	26,504
173,374	83,187	2,838	87,349	876,536	690,575	85,988	70,805	29,169
1,740	1,178	..	562	18,737	17,154	23	..	1,560
1,940	1,222	..	718	19,056	16,794	18	..	2,244
2,114	907	..	1,207	18,838	15,768	18	..	3,052
2,251	907	..	1,344	19,038	15,261	19	..	3,758
3,151	2,908	..	243	104,453	93,456	10,395	..	602
1,148	708	..	440	105,730	94,638	9,994	..	1,098
2,261	2,008	..	253	108,629	96,703	9,660	..	2,266
16,248	13,217	3,016	16	98,830	89,276	6,193	..	3,361
..	..	..	..	24,949	12,100	12,800	..	49
..	..	..	..	23,853	12,800	11,000	..	53
..	..	..	..	24,053	11,200	12,800	..	53
..	..	..	..	25,566	9,400	16,100	..	66
35,726	34,603	..	1,123	554,403	400,707	7,270	133,505	12,921
31,840	30,495	..	1,345	549,652	380,291	6,249	145,910	17,202
30,615	29,107	..	1,507	547,980	356,960	7,148	160,184	23,688
31,045	29,322	..	1,723	580,714	385,969	6,737	158,015	29,992
..	..	..	..	74,157	74,099	..	..	58
..	..	..	..	75,203	75,071	..	..	132
..	..	..	..	74,956	74,743	..	..	213
..	..	..	..	80,757	80,569	..	..	188
39	39	..	..	15,689	1,371	14,318	..	..
32	32	..	..	15,068	1,224	13,844	..	..
26	26	..	..	15,378	1,399	13,979	..	..
23	23	..	..	14,792	1,835	12,957	..	..
..	..	..	..	36,762	13,703	22,999	..	60
..	..	..	..	31,133	12,194	18,899	..	40
..	..	..	..	*39,967	*13,665	*26,262	..	*41
..	..	..	..	*44,931	*13,798	*31,072	..	61

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Lebanon	2018	23,150	22,754	348	..	..	48	..
	2019	23,819	22,736	965	..	..	118	..
	2020	18,306	17,161	1,025	..	..	*120	..
	2021	*13,631	*12,655	*670	..	..	306	..
Malaysia	2018	170,578	143,621	26,325	..	..	632	..
	2019	178,440	150,783	26,167	..	..	1,490	..
	2020	174,224	144,794	27,295	..	..	2,136	..
	2021	180,070	146,849	31,101	..	..	2,120	..
Maldives	2018	*773	*745	..	..	2	25	..
	2019	*847	*813	..	..	2	31	..
	2020	*853	*810	..	..	2	40	..
	2021	*857	*812	..	..	*3	*42	..
Mongolia	2018	6,535	6,055	81	..	340	59	..
	2019	6,900	6,416	*85	..	*340	*59	..
	2020	6,970	6,486	85	..	340	59	..
	2021	7,825	7,061	138	..	568	59	..
Myanmar	2018	22,883	11,641	11,228	..	..	14	..
	2019	23,778	14,328	9,369	..	..	81	..
	2020	23,643	15,194	8,370	..	..	79	..
	2021	22,075	12,350	9,590	..	..	135	..
Nepal	2018	4,829	0	4,754	..	0	75	..
	2019	6,134	0	6,061	..	0	73	..
	2020	6,189	0	6,092	..	1	96	..
	2021	9,668	0	9,534	..	1	133	..
Oman	2018	37,718	37,702	..	..	..	16	..
	2019	38,337	38,320	..	..	..	17	..
	2020	38,173	38,045	..	..	..	128	..
	2021	41,122	40,992	..	..	..	*130	..
Other Asia	2018	275,545	235,595	7,852	27,678	1,707	2,712	0
	2019	274,179	227,194	8,753	32,323	1,892	4,016	1
	2020	279,974	233,970	6,178	31,440	2,309	6,075	2
	2021	290,936	246,308	6,653	27,788	2,209	7,969	9
Pakistan	2018	136,461	90,588	32,789	9,134	3,234	716	..
	2019	134,818	82,533	38,802	9,861	2,914	708	..
	2020	144,049	90,212	38,936	11,090	2,900	911	..
	2021	144,435	86,550	35,069	17,045	4,800	971	..
Philippines	2018	101,223	78,985	9,401	..	1,153	1,249	10,435
	2019	107,517	86,496	8,043	..	1,042	1,246	10,691
	2020	103,215	82,851	7,209	..	1,026	1,373	10,757
	2021	107,574	84,952	9,202	..	1,270	1,470	10,681
Qatar	2018	47,913	47,913	..	..	..	..	..
	2019	49,873	49,873	..	..	..	..	..
	2020	49,259	49,259	..	..	..	..	..
	2021	51,641	51,641	..	..	..	..	..
Saudi Arabia	2018	359,257	359,038	..	..	5	*214	..
	2019	367,816	367,341	..	..	6	*469	..
	2020	367,498	366,563	..	..	*6	*929	..
	2021	379,045	377,682	..	..	409	*954	..
Singapore	2018	53,142	52,905	..	..	..	237	..
	2019	54,552	54,142	..	..	..	410	..
	2020	53,582	53,080	..	..	..	502	..
	2021	56,524	55,789	..	..	..	735	..
Sri Lanka	2018	15,985	9,072	6,401	..	326	186	..
	2019	16,630	11,102	4,812	..	350	366	..
	2020	15,801	10,260	4,976	..	344	221	..
	2021	16,716	8,306	7,208	..	645	557	..

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
7,916	7,868	..	48	15,234	14,886	348	..	..
9,117	8,999	..	118	14,702	13,737	965	..	..
*5,980	*5,860	..	*120	12,326	11,301	1,025	..	..
*5,776	*5,470	..	306	*7,855	*7,185	*670	..	..
7,163	7,104	0	59	163,415	136,517	26,325	..	573
7,170	7,084	..	*86	171,270	143,699	26,167	..	1,404
6,758	6,666	..	*92	167,466	138,128	27,295	..	2,044
6,769	6,676	..	*93	173,301	140,173	31,101	..	2,027
*280	*280	..	..	*493	*465	..	..	27
*300	*300	..	..	*547	*513	..	..	33
*300	*300	..	..	*553	*510	..	..	43
*300	*300	..	..	*557	*512	..	..	*45
81	..	81	..	6,454	6,055	..	..	399
*85	..	*85	..	6,815	6,416	..	..	*399
85	..	85	..	6,885	6,486	..	..	399
138	..	138	..	7,687	7,061	..	..	627
12,396	8,779	3,602	14	10,487	2,862	7,625	..	..
14,415	10,929	3,405	81	9,363	3,399	5,964	..	..
16,421	13,243	3,099	79	7,222	1,951	5,271	..	..
14,859	11,379	3,345	134	7,216	971	6,245	..	1
163	..	91	73	4,666	0	4,663	..	3
191	..	121	70	5,942	0	5,939	..	3
222	..	143	79	5,966	0	5,949	..	17
227	..	146	81	9,441	0	9,388	..	53
..	..	..	..	37,718	37,702	..	..	16
..	..	..	..	38,337	38,320	..	..	17
..	..	..	..	38,173	38,045	..	..	128
..	..	..	..	41,122	40,992	..	..	*130
41,734	39,108	..	2,626	233,811	196,487	7,852	27,678	1,794
42,082	38,319	..	3,763	232,097	188,875	8,753	32,323	2,146
42,351	37,169	0	5,181	237,623	196,801	6,178	31,440	3,204
45,399	39,037	1	6,361	245,537	207,271	6,652	27,788	3,826
2,980	2,980	..	..	133,481	87,608	32,789	9,134	3,950
2,434	2,434	..	..	132,384	80,099	38,802	9,861	3,622
1,538	1,538	..	..	142,511	88,674	38,936	11,090	3,811
3,066	3,066	..	..	141,369	83,484	35,069	17,045	5,771
*1,458	*1,441	*17	..	99,765	77,544	9,384	..	12,837
*1,475	*1,458	*17	..	106,042	85,038	8,026	..	12,979
*1,460	*1,443	*17	..	101,756	81,408	7,192	..	13,156
*1,460	*1,443	*17	..	106,115	83,509	9,185	..	13,421
46,380	46,380	..	..	1,533	1,533	..	..	..
47,942	47,942	..	..	1,930	1,930	..	..	..
46,500	46,500	..	..	2,759	2,759	..	..	..
50,005	50,005	..	..	1,637	1,637	..	..	..
*121,161	*121,161	..	..	238,096	237,877	..	..	*219
*129,601	*129,601	..	..	238,215	237,740	..	..	*475
*127,936	*127,936	..	..	239,562	238,627	..	..	*935
*129,546	*129,546	..	..	249,499	248,136	..	..	*1,363
4,733	4,733	..	..	48,409	48,172	..	..	237
4,497	4,497	..	..	50,055	49,645	..	..	410
4,661	4,661	..	..	48,921	48,419	..	..	502
4,599	4,599	..	..	51,925	51,190	..	..	735
1,409	87	1,232	89	14,577	8,985	5,169	..	423
1,233	118	1,011	105	15,396	10,984	3,801	..	611
1,269	*118	1,047	*105	14,532	10,142	3,929	..	460
1,987	*156	1,568	263	14,729	8,150	5,640	..	939

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
State of Palestine	2018	420	360	..	..	..	60	..
	2019	811	691	..	..	..	120	..
	2020	840	662	..	..	..	178	..
	2021	917	693	..	..	..	224	..
Syrian Arab Republic	2018	18,164	17,410	754	..	..	..	..
	2019	17,568	16,814	754	..	..	..	..
	2020	16,365	15,611	754	..	..	..	..
	2021	16,916	16,162	754	..	..	..	..
Tajikistan	2018	19,743	1,348	18,395	..	..	..	..
	2019	20,676	1,507	19,169	..	..	..	..
	2020	19,734	1,620	18,114	..	..	..	..
	2021	20,624	1,657	18,967	..	..	..	..
Thailand	2018	182,288	168,326	7,783	..	1,641	4,537	1
	2019	190,681	175,418	6,446	..	3,670	5,146	1
	2020	188,870	176,452	4,656	..	3,124	4,636	1
	2021	*186,889	*174,097	4,687	..	3,462	4,641	1
Timor-Leste	2018	453	450	2	..	..	1	..
	2019	518	515	2	..	..	2	..
	2020	506	503	2	..	..	2	..
	2021	511	508	*2	..	..	*2	..
Türkiye	2018	304,802	208,733	59,938	..	19,949	7,800	8,381
	2019	303,898	174,041	88,823	..	21,731	9,250	10,053
	2020	306,703	181,526	78,094	..	24,828	10,950	11,304
	2021	334,723	221,312	55,927	..	31,437	13,943	12,105
Turkmenistan	2018	22,534	22,531	3	..	..	..	..
	2019	22,534	22,531	3	..	..	..	..
	2020	22,534	22,531	3	..	..	..	..
	2021	22,534	22,528	6	..	..	..	..
United Arab Emirates	2018	*136,014	*134,711	..	..	..	1,303	..
	2019	*138,454	*134,674	..	..	..	3,780	..
	2020	*137,310	*131,835	..	..	..	5,475	..
	2021	149,053	143,301	..	..	..	5,752	..
Uzbekistan	2018	62,408	56,510	5,897	..	..	0	..
	2019	63,021	56,544	6,462	..	16	0	..
	2020	66,516	61,502	4,999	..	16	0	..
	2021	71,414	66,391	4,972	..	1	49	..
Viet Nam	2018	213,199	128,576	84,205	..	312	106	..
	2019	*232,602	*142,200	85,097	..	312	4,993	..
	2020	240,543	156,672	73,461	..	976	9,434	..
	2021	253,498	143,728	78,633	..	3,346	27,791	..
Yemen	2018	3,487	3,003	..	..	..	484	..
	2019	3,277	2,792	..	..	..	484	..
	2020	2,939	2,449	..	..	..	490	..
	2021	2,915	2,425	..	..	..	490	..
Europe	**2018**	**4,902,887**	**2,424,454**	**805,188**	**1,141,487**	**383,215**	**129,570**	**18,974**
	2019	**4,847,750**	**2,341,988**	**763,381**	**1,139,926**	**440,654**	**142,800**	**19,001**
	2020	**4,696,299**	**2,142,817**	**825,927**	**1,050,101**	**489,807**	**168,790**	**18,858**
	2021	**4,900,459**	**2,271,919**	**838,910**	**1,111,485**	**471,662**	**187,650**	**18,833**
Albania	2018	8,552	..	8,552	..	..	..	..
	2019	5,206	..	5,184	..	..	22	..
	2020	5,313	..	5,281	..	..	32	..
	2021	8,963	..	8,922	..	..	41	..
Andorra	2018	145	31	114	..	..	1	..
	2019	118	32	85	..	..	1	..
	2020	153	29	124	..	..	1	..
	2021	109	29	79	..	..	1	..

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
137	107	..	30	284	254	..	..	30
160	100	..	60	651	591	..	..	60
163	74	..	89	677	588	..	..	89
183	71	..	112	733	621	..	..	112
626	626	..	..	17,538	16,784	754	..	..
562	562	..	..	17,006	16,252	754	..	..
586	586	..	..	15,779	15,025	754	..	..
567	567	..	..	16,349	15,595	754	..	..
..	..	..	..	19,743	1,348	18,395	..	..
..	..	..	..	20,676	1,507	19,169	..	..
..	..	..	..	19,734	1,620	18,114	..	..
..	..	..	..	20,624	1,657	18,967	..	..
64,128	60,089	38	4,001	118,161	108,237	7,745	..	2,178
68,932	64,358	35	4,538	121,749	111,059	6,411	..	4,279
..	..	..	..	188,870	176,452	4,656	..	7,761
..	..	..	..	*186,889	*174,097	4,687	..	8,105
..	..	..	..	453	450	2	..	1
..	..	..	..	518	515	2	..	2
..	..	..	..	506	503	2	..	2
..	..	..	..	511	508	*2	..	*2
19,918	16,334	1,073	2,510	284,884	192,399	58,865	..	33,620
22,934	18,598	1,282	3,053	280,964	155,443	87,540	..	37,980
25,677	20,842	1,026	3,808	281,027	160,684	77,068	..	43,274
30,106	25,321	37	4,748	304,617	195,992	55,889	..	52,736
..	..	..	..	22,534	22,531	3	..	..
..	..	..	..	22,534	22,531	3	..	..
..	..	..	..	22,534	22,531	3	..	..
..	..	..	..	22,534	22,528	6	..	..
..	..	..	..	*136,014	*134,711	..	..	1,303
..	..	..	..	*138,454	*134,674	..	..	3,780
..	..	..	..	*137,310	*131,835	..	..	5,475
..	..	..	..	149,053	143,301	..	..	5,752
..	..	..	..	62,408	56,510	5,897	..	0
..	..	..	..	63,021	56,544	6,462	..	16
..	..	..	..	66,516	61,502	4,999	..	16
297	297	..	..	71,117	66,094	4,972	..	50
*4,282	*4,200	*80	*2	208,917	124,376	84,125	..	416
*4,282	*4,200	*80	*2	*228,320	*138,000	85,017	..	5,303
8,596	8,514	*80	*2	231,947	148,158	73,381	..	10,408
8,679	8,597	*80	*2	244,820	135,132	78,553	..	31,135
729	245	..	484	2,758	2,758	..	..	..
733	248	..	484	2,544	2,544	..	..	..
717	227	..	490	2,222	2,222	..	..	..
715	225	..	490	2,200	2,200	..	..	..
406,101	**356,473**	**10,293**	**39,335**	**4,496,785**	**2,067,982**	**794,894**	**1,141,487**	**492,423**
418,170	**365,305**	**10,403**	**42,462**	**4,429,580**	**1,976,683**	**752,979**	**1,139,926**	**559,992**
417,626	**355,940**	**10,970**	**50,716**	**4,278,674**	**1,786,877**	**814,957**	**1,050,101**	**626,739**
451,857	**370,064**	**10,905**	**70,888**	**4,448,602**	**1,901,855**	**828,005**	**1,111,485**	**607,257**
..	..	..	..	8,552	..	8,552	..	..
..	..	..	..	5,206	..	5,184	..	22
..	..	..	..	5,313	..	5,281	..	32
..	..	..	..	8,963	..	8,922	..	41
26	26	..	..	120	5	114	..	1
27	27	..	..	91	6	85	..	1
25	25	..	..	128	4	124	..	1
22	22	..	..	87	7	79	..	1

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Austria	2018	68,618	19,900	41,219	..	6,030	1,455	13
	2019	74,234	20,865	44,204	..	7,450	1,702	13
	2020	72,556	18,368	45,344	..	6,792	2,043	10
	2021	70,752	18,678	42,540	..	6,740	2,783	12
Belarus	2018	38,986	38,386	324	..	99	177	..
	2019	40,465	39,756	350	..	178	181	..
	2020	38,548	37,441	399	338	194	176	..
	2021	41,240	34,749	371	5,780	168	172	..
Belgium	2018	75,040	33,171	1,308	28,597	7,574	3,903	487
	2019	93,646	34,497	1,181	43,524	9,755	4,253	436
	2020	89,455	35,277	1,315	34,435	12,819	5,112	498
	2021	100,465	30,667	1,350	50,326	11,998	5,618	507
Bosnia and Herzegovina	2018	19,160	12,517	6,519	..	103	21	..
	2019	17,493	11,037	6,172	..	254	30	..
	2020	16,874	11,904	4,663	..	262	45	..
	2021	18,536	11,286	6,796	..	382	72	..
Bulgaria	2018	46,838	22,606	5,423	16,125	1,318	1,343	22
	2019	44,277	21,573	3,383	16,555	1,317	1,417	31
	2020	40,754	17,827	3,320	16,626	1,477	1,469	36
	2021	47,568	23,079	5,067	16,487	1,434	1,467	35
Croatia	2018	13,632	4,435	7,785	..	1,335	75	2
	2019	12,760	5,185	5,933	..	1,467	83	92
	2020	13,385	5,665	5,810	..	1,721	96	94
	2021	15,210	5,681	7,229	..	2,062	149	90
Czechia	2018	88,038	52,338	2,679	29,921	609	2,365	125
	2019	87,056	50,474	3,175	30,246	700	2,337	124
	2020	81,568	44,933	3,437	30,043	699	2,338	118
	2021	85,082	47,677	3,620	30,731	602	2,316	136
Denmark	2018	30,370	15,500	15	..	13,902	953	..
	2019	29,517	12,387	17	..	16,150	963	..
	2020	28,729	11,201	17	..	16,330	1,181	..
	2021	33,049	15,669	16	..	16,054	1,309	..
Estonia	2018	12,364	11,682	15	..	636	31	..
	2019	7,616	6,836	19	..	687	74	..
	2020	6,078	4,959	30	..	844	245	..
	2021	7,204	6,095	23	..	733	354	..
Faeroe Islands	2018	352	180	108	..	64	..	..
	2019	386	230	104	..	53	..	..
	2020	407	251	109	..	47	0	..
	2021	424	269	100	..	54	0	0
Finland	2018	70,263	27,959	13,301	22,793	5,839	90	281
	2019	68,650	25,923	12,421	23,870	6,025	147	264
	2020	69,268	21,392	15,883	23,291	8,256	218	227
	2021	72,121	23,671	15,792	23,598	8,507	298	255
France	2018	581,819	57,647	70,472	412,942	28,599	10,925	1,235
	2019	570,949	62,148	61,572	399,012	34,722	12,330	1,166
	2020	532,386	56,901	67,095	353,833	39,861	13,459	1,237
	2021	555,283	58,263	63,956	379,361	36,831	15,732	1,139
Germany	2018	640,468	385,445	23,863	76,005	109,951	43,459	1,745
	2019	606,917	334,214	25,671	75,071	125,894	44,383	1,684
	2020	575,462	302,330	25,275	64,382	132,102	49,496	1,877
	2021	588,343	328,342	24,973	69,130	114,647	49,340	1,911
Gibraltar	2018	215	215	..	..	..	..	0
	2019	220	220	..	..	..	..	0
	2020	215	215	..	..	..	..	0
	2021	233	233	..	..	..	..	0

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
7,987	7,500	474	13	60,631	12,400	40,745	..	7,486
7,966	7,419	535	13	66,268	13,446	43,669	..	9,152
7,837	7,371	456	10	64,719	10,997	44,888	..	8,835
8,088	7,669	407	12	62,664	11,009	42,133	..	9,523
3,960	3,876	8	76	35,026	34,510	316	..	200
4,263	4,160	7	96	36,202	35,596	343	..	263
4,072	3,974	8	90	34,476	33,467	391	338	280
3,782	3,688	7	86	37,458	31,061	364	5,780	254
12,158	7,745	..	4,414	62,882	25,426	1,308	28,597	7,551
13,893	9,159	..	4,734	79,753	25,339	1,181	43,524	9,710
15,119	9,453	..	5,666	74,336	25,824	1,315	34,435	12,763
15,644	9,511	..	6,133	84,822	21,156	1,350	50,326	11,989
438	438	..	..	18,722	12,079	6,519	..	124
412	412	..	..	17,081	10,625	6,172	..	284
347	347	..	..	16,527	11,557	4,663	..	307
414	414	..	..	18,122	10,872	6,796	..	454
708	686	..	22	46,130	21,921	5,423	16,125	2,661
721	690	..	31	43,555	20,883	3,383	16,555	2,734
737	702	..	36	40,017	17,125	3,320	16,626	2,946
926	891	..	35	46,642	22,188	5,067	16,487	2,900
373	367	6	..	13,259	4,068	7,779	..	1,412
375	370	6	..	12,385	4,816	5,927	..	1,642
405	399	6	..	12,980	5,266	5,805	..	1,910
346	340	6	..	14,865	5,341	7,223	..	2,300
8,785	8,191	494	99	79,253	44,147	2,185	29,921	3,000
8,737	8,065	575	98	78,318	42,409	2,600	30,246	3,063
9,066	8,333	644	89	72,502	36,600	2,793	30,043	3,066
9,177	8,375	693	110	75,905	39,302	2,927	30,731	2,944
3,097	2,144	..	953	27,273	13,356	15	..	13,902
3,202	2,239	..	963	26,315	10,148	17	..	16,150
3,419	2,238	..	1,181	25,310	8,963	17	..	16,330
3,564	2,255	..	1,309	29,485	13,414	16	..	16,054
124	123	..	1	12,241	11,560	15	..	666
94	91	1	2	7,521	6,745	18	..	759
183	177	4	2	5,896	4,782	26	..	1,087
176	172	2	2	7,029	5,923	21	..	1,085
..	..	..	..	352	180	108	..	64
..	..	..	..	386	230	104	..	53
..	..	..	..	407	251	109	..	47
..	..	..	..	424	269	100	..	54
10,711	9,474	944	292	59,552	18,484	12,357	22,793	5,918
10,819	9,713	760	346	57,831	16,210	11,661	23,870	6,090
10,079	8,602	1,094	383	59,189	12,790	14,789	23,291	8,319
10,585	9,013	1,084	488	61,536	14,658	14,708	23,598	8,572
20,654	16,242	609	3,804	561,165	41,405	69,863	412,942	36,955
22,316	17,405	595	4,315	548,633	44,742	60,977	399,012	43,902
21,679	16,208	589	4,881	510,708	40,693	66,506	353,833	49,676
21,578	15,798	561	5,220	533,705	42,465	63,395	379,361	48,484
54,957	53,785	87	1,085	585,511	331,660	23,776	76,005	154,070
53,336	52,318	98	920	553,581	281,896	25,573	75,071	171,041
53,010	51,839	84	1,087	522,452	250,491	25,191	64,382	182,388
54,791	53,605	100	1,086	533,552	274,737	24,873	69,130	164,812
..	..	..	..	215	215	..	..	0
..	..	..	..	220	220	..	..	0
..	..	..	..	215	215	..	..	0
..	..	..	..	233	233	..	..	0

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Greece	2018	53,263	37,412	5,760	..	6,300	3,791	..
	2019	48,626	32,880	4,051	..	7,266	4,429	..
	2020	48,252	31,055	3,440	..	9,310	4,447	..
	2021	54,715	33,020	5,961	..	10,483	5,251	..
Guernsey	2018	54	54	..	..	..	0	..
	2019	165	164	..	..	..	0	..
	2020	23	23	..	..	..	0	..
	2021	27	27	..	..	..	0	..
Hungary	2018	32,067	14,725	222	15,733	607	629	151
	2019	34,291	15,429	219	16,288	729	1,497	129
	2020	34,930	15,358	244	16,055	655	2,459	159
	2021	36,120	15,301	212	15,990	664	3,796	157
Iceland	2018	19,830	2	13,814	..	4	..	6,010
	2019	19,489	3	13,461	..	7	..	6,018
	2020	19,127	3	13,157	..	7	..	5,961
	2021	19,614	2	13,804	..	6	..	5,802
Ireland	2018	31,139	21,546	932	..	8,640	22	..
	2019	30,962	19,771	1,132	..	10,019	40	..
	2020	32,276	19,440	1,224	..	11,549	62	..
	2021	31,872	20,968	1,036	..	9,776	93	..
Isle of Man	2018	493	490	*2	..	..	..	..
	2019	581	578	3	..	..	..	..
	2020	552	548	4	..	..	..	..
	2021	360	356	4	..	..	..	..
Italy	2018	289,708	192,129	50,503	..	17,716	22,654	6,707
	2019	293,853	195,084	48,154	..	20,202	23,689	6,725
	2020	280,531	180,805	49,495	..	18,762	24,942	6,528
	2021	289,070	189,132	47,478	..	20,927	25,039	6,493
Jersey	2018	45	45	..	..	..	..	..
	2019	44	44	..	..	..	..	..
	2020	43	43	..	..	..	..	..
	2021	33	33	..	..	..	..	..
Kosovo	2018	5,915	5,611	273	..	30	2	..
	2019	6,348	6,037	210	..	91	11	..
	2020	6,713	6,348	263	..	90	12	..
	2021	6,892	6,453	297	..	126	16	..
Latvia	2018	6,725	4,170	2,432	..	122	1	..
	2019	6,438	4,174	2,108	..	154	3	..
	2020	5,725	2,940	2,603	..	177	5	..
	2021	5,846	2,990	2,708	..	141	7	..
Liechtenstein	2018	89	2	62	..	..	25	..
	2019	103	2	75	..	..	26	..
	2020	104	2	72	..	..	30	..
	2021	107	3	74	..	..	31	..
Lithuania	2018	3,511	1,089	960	..	1,144	87	232
	2019	3,972	1,210	948	..	1,499	91	223
	2020	5,518	2,550	1,080	..	1,552	129	207
	2021	5,079	2,240	1,094	..	1,362	191	193
Luxembourg	2018	2,200	490	1,337	..	255	119	..
	2019	1,908	547	949	..	281	130	..
	2020	2,234	628	1,094	..	351	161	..
	2021	2,211	632	1,085	..	314	180	..
Malta	2018	1,962	1,772	..	..	0	190	..
	2019	2,060	1,864	..	..	0	195	..
	2020	2,143	1,906	..	..	0	237	..
	2021	2,215	1,959	..	..	0	256	..

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
2,215	2,215	..	..	51,048	35,197	5,760	..	10,091
2,480	2,480	..	..	46,146	30,400	4,051	..	11,695
2,712	2,712	..	..	45,539	28,342	3,440	..	13,757
2,795	2,795	..	..	51,920	30,225	5,961	..	15,734
..	..	..	..	54	54	..	..	0
..	..	..	..	165	164	..	..	0
..	..	..	..	23	23	..	..	0
..	..	..	..	27	27	..	..	0
1,577	982	..	595	30,490	13,743	222	15,733	792
1,978	1,056	..	922	32,313	14,373	219	16,288	1,433
2,352	1,017	..	1,335	32,578	14,341	244	16,055	1,938
2,850	957	..	1,893	33,270	14,344	212	15,990	2,724
..	..	..	..	19,830	2	13,814	..	6,014
..	..	..	..	19,489	3	13,461	..	6,025
..	..	..	..	19,127	3	13,157	..	5,967
..	..	..	..	19,614	2	13,804	..	5,808
2,215	2,153	..	62	28,925	19,393	932	..	8,600
2,176	2,084	..	92	28,786	17,687	1,132	..	9,967
2,203	2,088	..	115	30,073	17,352	1,224	..	11,496
2,215	2,064	..	151	29,658	18,904	1,036	..	9,718
*33	*33	..	..	460	457	*2	..	..
*33	*33	..	..	548	545	3	..	..
*33	*33	..	..	518	515	4	..	..
*32	*32	..	..	328	324	4	..	..
22,784	22,114	466	204	266,925	170,015	50,037	..	46,873
22,340	21,695	492	153	271,513	173,389	47,661	..	50,463
20,335	19,658	465	212	260,196	161,147	49,030	..	50,019
38,151	22,200	469	15,482	250,918	166,932	47,009	..	36,977
43	43	..	..	2	2	..	..	..
42	42	..	..	2	2	..	..	..
42	42	..	..	1	1	..	..	..
32	32	..	..	1	1	..	..	..
..	..	..	..	5,915	5,611	273	..	32
0	..	..	0	6,348	6,037	210	..	101
..	..	..	..	6,713	6,348	263	..	102
..	..	..	..	6,892	6,453	297	..	142
190	186	2	2	6,535	3,984	2,430	..	121
187	180	2	5	6,251	3,994	2,106	..	152
182	173	2	7	5,543	2,767	2,601	..	175
168	157	2	9	5,678	2,833	2,706	..	140
..	..	..	..	89	2	62	..	25
..	..	..	..	103	2	75	..	26
..	..	..	..	104	2	72	..	30
..	..	..	..	107	3	74	..	31
647	416	..	232	2,864	674	960	..	1,231
821	598	..	223	3,151	612	948	..	1,591
816	609	..	207	4,702	1,941	1,080	..	1,681
697	505	..	193	4,382	1,735	1,094	..	1,553
282	159	4	119	1,918	331	1,332	..	255
285	150	5	130	1,623	398	944	..	281
309	143	5	161	1,926	485	1,090	..	351
292	128	5	160	1,919	504	1,080	..	335
199	9	..	190	1,763	1,763	..	..	..
202	6	..	195	1,858	1,858	..	..	..
243	6	..	237	1,900	1,900	..	..	..
263	7	..	256	1,952	1,952	..	..	..

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Montenegro	2018	3,679	1,444	2,092	..	141	2	..
	2019	3,423	1,506	1,621	..	293	2	..
	2020	3,386	1,615	1,448	..	320	2	..
	2021	3,777	1,444	2,010	..	320	3	..
Netherlands (Kingd. of the)	2018	114,264	95,830	72	3,515	10,549	3,708	591
	2019	121,355	99,917	74	3,910	11,508	5,399	547
	2020	123,287	94,795	46	4,087	15,278	8,568	512
	2021	122,132	88,194	88	3,828	18,005	11,495	522
North Macedonia	2018	5,870	4,581	1,164	..	102	23	..
	2019	5,870	4,581	1,164	..	102	23	..
	2020	5,347	3,929	1,277	..	117	24	..
	2021	5,532	3,926	1,452	..	103	51	..
Norway	2018	147,097	3,169	139,714	..	3,877	2	334
	2019	134,907	3,011	126,030	..	5,525	13	328
	2020	155,249	2,441	142,471	..	9,913	136	289
	2021	157,966	1,301	144,339	..	11,769	175	383
Poland	2018	170,039	154,428	2,387	..	12,799	300	125
	2019	163,989	145,269	2,665	..	15,107	711	237
	2020	158,043	137,254	2,937	..	15,800	1,958	94
	2021	179,631	156,279	3,101	..	16,234	3,934	84
Portugal	2018	59,636	32,155	13,628	..	12,617	1,006	230
	2019	53,154	27,687	10,243	..	13,667	1,342	215
	2020	53,078	25,214	13,633	..	12,299	1,716	217
	2021	50,980	21,894	13,455	..	13,216	2,237	179
Republic of Moldova	2018	954	884	44	..	23	3	..
	2019	941	830	65	..	43	3	..
	2020	983	881	47	..	51	4	..
	2021	1,131	976	68	..	77	10	..
Romania	2018	64,876	27,308	18,097	11,377	6,322	1,771	..
	2019	59,623	23,787	16,006	11,280	6,773	1,778	..
	2020	55,935	20,088	15,701	11,466	6,945	1,733	..
	2021	59,470	22,162	17,745	11,284	6,576	1,703	..
Russian Federation	2018	1,115,093	716,119	193,027	204,569	232	720	426
	2019	1,121,492	713,955	196,510	208,984	331	1,279	433
	2020	1,089,668	655,850	214,388	215,745	1,241	2,022	421
	2021	1,159,416	714,777	216,143	222,530	3,311	2,225	430
Serbia	2018	37,426	25,869	11,393	..	150	13	..
	2019	37,600	26,490	10,198	..	898	14	..
	2020	37,956	27,219	9,749	..	976	13	..
	2021	38,236	25,153	11,984	..	1,085	14	..
Slovakia	2018	26,971	7,542	3,879	14,843	6	585	116
	2019	28,434	7,953	4,571	15,282	6	589	33
	2020	28,838	7,897	4,799	15,444	4	663	31
	2021	30,016	8,999	4,552	15,730	5	671	59
Slovenia	2018	16,327	5,397	4,893	5,776	6	255	..
	2019	16,100	5,287	4,683	5,821	6	303	..
	2020	17,191	5,239	5,225	6,353	6	368	..
	2021	15,877	4,715	4,997	5,706	6	453	..
Spain	2018	274,452	118,149	36,803	55,766	50,896	12,744	94
	2019	273,257	117,125	26,874	58,349	55,647	15,103	159
	2020	263,373	93,778	33,998	58,299	56,444	20,667	187
	2021	274,312	95,443	32,847	56,564	62,061	27,098	299
Sweden	2018	163,400	15,571	62,250	68,549	16,623	407	..
	2019	168,439	16,390	65,393	66,130	19,847	679	..
	2020	163,833	13,618	72,440	49,198	27,526	1,051	..
	2021	171,798	16,137	73,926	52,965	27,244	1,526	..

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	3,679	1,444	2,092	..	143
..	..	..	..	3,423	1,506	1,621	..	296
..	..	..	..	3,386	1,615	1,448	..	322
..	..	..	..	3,777	1,444	2,010	..	323
26,853	22,254	..	4,599	87,411	73,576	72	3,515	10,248
29,004	22,894	..	6,109	92,352	77,022	74	3,910	11,346
34,534	25,729	..	8,805	88,753	69,066	46	4,087	15,554
37,317	26,303	..	11,014	84,815	61,891	88	3,828	19,009
..	..	..	..	5,870	4,581	1,164	..	125
..	..	..	..	5,870	4,581	1,164	..	125
..	..	..	..	5,347	3,929	1,277	..	141
..	..	..	..	5,532	3,926	1,452	..	154
2,922	2,586	..	337	144,175	584	139,714	..	3,877
2,721	2,380	..	341	132,185	631	126,030	..	5,525
2,231	1,806	..	425	153,018	635	142,471	..	9,913
1,249	692	..	558	156,717	609	144,339	..	11,769
14,847	14,418	3	425	155,193	140,010	2,384	..	12,799
17,214	16,263	3	948	146,774	129,006	2,662	..	15,107
18,795	16,741	3	2,052	139,247	120,513	2,934	..	15,800
18,997	14,977	2	4,018	160,634	141,302	3,099	..	16,234
8,324	7,814	19	491	51,312	24,341	13,610	..	13,362
8,678	7,998	18	662	44,477	19,689	10,225	..	14,563
8,877	7,895	18	965	44,201	17,319	13,615	..	13,267
8,495	7,432	14	1,048	42,485	14,461	13,440	..	14,584
72	57	..	15	882	827	44	..	11
79	53	..	26	862	777	65	..	20
70	46	..	24	913	835	47	..	31
109	57	..	52	1,022	919	68	..	35
7,394	6,799	238	357	57,482	20,509	17,859	11,377	7,736
6,405	5,715	270	421	53,218	18,072	15,736	11,280	8,130
7,287	6,561	269	457	48,648	13,527	15,432	11,466	8,222
8,419	7,260	312	847	51,052	14,902	17,433	11,284	7,432
75,447	74,293	1,154	..	1,039,647	641,826	191,873	204,569	1,378
76,525	75,348	1,177	..	1,044,968	638,607	195,334	208,984	2,043
71,098	69,813	1,285	..	1,018,570	586,036	213,104	215,745	3,685
80,596	79,300	1,297	..	1,078,819	635,477	214,846	222,530	5,966
543	543	..	..	36,883	25,326	11,393	..	163
470	470	..	..	37,130	26,020	10,198	..	912
474	474	..	..	37,483	26,745	9,749	..	989
527	527	..	..	37,708	24,626	11,984	..	1,098
3,515	2,892	111	512	23,456	4,650	3,768	14,843	195
3,089	2,556	120	413	25,345	5,397	4,451	15,282	215
3,066	2,462	128	476	25,772	5,435	4,671	15,444	222
3,261	2,630	129	502	26,755	6,369	4,423	15,730	233
724	255	221	248	15,603	5,142	4,672	5,776	13
769	261	213	295	15,331	5,026	4,470	5,821	14
851	273	218	360	16,340	4,966	5,007	6,353	15
925	256	227	442	14,952	4,459	4,770	5,706	17
37,587	36,389	909	289	236,865	81,760	35,894	55,766	63,445
38,316	37,059	897	360	234,941	80,066	25,977	58,349	70,549
35,666	34,190	972	504	227,707	59,588	33,026	58,299	76,794
37,828	35,506	881	1,441	236,484	59,937	31,966	56,564	88,017
6,139	6,128	11	..	157,261	9,443	62,239	68,549	17,030
6,964	6,959	5	..	161,475	9,431	65,388	66,130	20,526
6,609	6,609	..	..	157,224	7,009	72,440	49,198	28,577
6,894	6,894	..	..	164,904	9,243	73,926	52,965	28,770

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Switzerland	2018	69,110	3,728	37,802	25,513	122	1,945	..
	2019	73,478	3,775	40,962	26,418	146	2,178	..
	2020	71,654	3,863	41,022	24,025	145	2,599	..
	2021	66,042	3,796	39,895	19,364	146	2,842	..
Ukraine	2018	159,833	61,104	12,007	84,398	1,188	1,099	37
	2019	154,141	58,201	7,855	83,003	2,020	2,933	129
	2020	148,408	55,258	7,564	76,203	3,271	5,969	144
	2021	158,083	52,004	10,333	86,206	2,833	6,565	144
United Kingdom	2018	331,997	189,629	7,942	65,064	56,685	12,668	9
	2019	323,199	183,059	7,689	56,184	63,835	12,418	14
	2020	310,748	163,537	8,404	50,278	75,615	12,903	11
	2021	307,317	177,217	7,390	45,904	64,662	12,138	5
Latin America & Carib.	**2018**	**1,674,775**	**766,188**	**758,642**	**35,802**	**78,659**	**13,981**	**21,504**
	2019	**1,672,888**	**754,031**	**739,433**	**35,246**	**95,212**	**25,811**	**23,156**
	2020	**1,625,440**	**714,966**	**724,394**	**36,022**	**104,883**	**34,991**	**10,184**
	2021	**1,751,339**	**823,023**	**703,388**	**37,458**	**126,952**	**48,965**	**11,553**
Anguilla	2018	83	81	..	..	..	2	..
	2019	100	97	..	..	..	3	..
	2020	90	88	..	..	..	*3	..
	2021	98	95	..	..	..	*3	..
Antigua and Barbuda	2018	362	349	..	..	..	13	..
	2019	358	345	..	..	..	13	..
	2020	347	330	..	..	..	16	..
	2021	351	334	..	..	..	*17	..
Argentina	2018	152,224	102,820	41,430	6,453	1,413	108	..
	2019	145,990	95,389	36,878	7,927	4,996	800	..
	2020	144,924	99,199	24,262	10,707	9,412	1,345	..
	2021	153,779	107,628	20,186	10,831	12,938	2,196	..
Aruba	2018	*931	*748	..	..	*175	*8	..
	2019	*973	*798	..	..	*165	*10	..
	2020	*912	*736	..	..	*165	*11	..
	2021	*955	*772	..	..	*172	*11	..
Bahamas	2018	1,925	1,923	..	..	..	2	..
	2019	1,895	1,892	..	..	..	3	..
	2020	1,796	1,793	..	..	..	*3	..
	2021	1,859	1,856	..	..	..	*3	..
Barbados	2018	*1,038	*994	..	..	..	44	..
	2019	*1,053	*1,001	..	..	..	52	..
	2020	*982	*914	..	..	..	69	..
	2021	*992	*907	..	..	..	85	..
Belize	2018	416	166	250	..	..	1	..
	2019	305	230	75	..	..	1	..
	2020	434	191	242	..	..	1	..
	2021	404	244	158	..	..	*3	..
Bolivia (Plur. State of)	2018	9,855	7,056	2,612	..	59	127	..
	2019	10,172	6,662	3,251	..	70	188	..
	2020	9,977	6,638	2,942	..	64	332	..
	2021	10,834	7,127	3,237	..	120	351	..
Bonaire, St Eustatius, Saba	2018	137	91	..	..	37	*8	..
	2019	145	104	..	..	33	*9	..
	2020	145	112	..	..	25	*8	..
	2021	156	119	..	..	*28	*10	..
Brazil	2018	601,396	144,815	388,971	15,674	48,475	3,461	..
	2019	626,329	149,682	397,877	16,129	55,986	6,655	..
	2020	621,198	143,017	396,328	14,053	57,050	10,750	..
	2021	656,109	189,301	362,818	14,705	72,286	16,752	247

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
7,965	3,132	2,888	1,945	61,145	596	34,915	25,513	122
8,218	3,158	2,883	2,178	65,260	617	38,079	26,418	146
8,640	3,187	2,854	2,599	63,014	676	38,168	24,025	145
8,849	3,078	2,929	2,842	57,193	718	36,966	19,364	146
2,658	2,611	2	45	157,175	58,493	12,005	84,398	2,279
2,262	2,124	..	138	151,880	56,077	7,855	83,003	4,944
3,328	3,161	..	167	145,080	52,097	7,564	76,203	9,217
3,576	3,407	..	169	154,508	48,597	10,333	86,206	9,372
56,951	37,399	1,643	17,909	275,047	152,230	6,299	65,064	51,454
60,751	41,675	1,743	17,333	262,448	141,384	5,946	56,184	58,934
60,896	40,844	1,867	18,185	249,853	122,694	6,537	50,278	70,344
58,230	41,117	1,780	15,334	249,087	136,100	5,610	45,904	61,472
220,141	**184,070**	**23,948**	**12,123**	**1,454,635**	**582,118**	**734,694**	**35,802**	**102,021**
220,574	**181,182**	**23,968**	**15,424**	**1,452,315**	**572,849**	**715,465**	**35,246**	**128,755**
225,305	**184,798**	**21,950**	**18,557**	**1,400,135**	**530,168**	**702,444**	**36,022**	**131,501**
228,568	**183,978**	**20,861**	**23,729**	**1,522,771**	**639,044**	**682,527**	**37,458**	**163,741**
..	..	..	..	83	81	..	..	2
..	..	..	..	100	97	..	..	3
..	..	..	..	90	88	..	..	*3
..	..	..	..	98	95	..	..	*3
*1	*1	..	..	361	348	..	..	13
*1	*1	..	..	357	344	..	..	13
*1	*1	..	..	346	329	..	..	16
*1	*1	..	..	350	333	..	..	*17
14,744	14,698	46	..	137,480	88,122	41,384	6,453	1,521
14,744	14,698	46	..	131,246	80,691	36,832	7,927	5,796
13,785	13,743	42	..	131,139	85,456	24,220	10,707	10,757
13,785	13,743	42	..	139,994	93,885	20,144	10,831	15,134
..	..	..	..	*931	*748	..	..	*183
..	..	..	..	*973	*798	..	..	*175
..	..	..	..	*912	*736	..	..	*176
..	..	..	..	*955	*772	..	..	*183
*80	*80	..	..	1,845	1,843	..	..	2
*92	*92	..	..	1,803	1,800	..	..	3
*98	*98	..	..	1,698	1,695	..	..	*3
*105	*105	..	..	1,754	1,751	..	..	*3
17	17	..	..	*1,021	*976	..	..	44
18	18	..	..	*1,035	*983	..	..	52
17	17	..	..	*966	*897	..	..	69
17	17	..	..	*975	*891	..	..	85
94	94	..	..	322	72	250	..	1
92	92	..	..	213	137	75	..	1
74	74	..	..	360	117	242	..	1
62	62	..	..	342	182	158	..	*3
362	356	7	..	9,493	6,701	2,606	..	186
435	429	7	..	9,737	6,234	3,245	..	258
432	429	3	..	9,545	6,209	2,939	..	397
663	659	4	..	10,171	6,468	3,233	..	470
..	..	..	..	137	91	..	..	45
..	..	..	..	145	104	..	..	41
..	..	..	..	145	112	..	..	33
..	..	..	..	156	119	..	..	*38
101,164	81,273	19,330	561	500,232	63,542	369,641	15,674	51,375
102,385	81,249	19,427	1,709	523,944	68,433	378,450	16,129	60,932
106,451	83,876	17,745	4,830	514,747	59,141	378,583	14,053	62,970
113,968	88,564	16,002	9,402	542,141	100,737	346,816	14,705	79,883

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
British Virgin Islands	2018	160	159	..	..	1	0	..
	2019	199	198	..	..	1	0	..
	2020	*203	*201	..	..	1	0	..
	2021	*207	*205	..	..	1	0	..
Cayman Islands	2018	658	658	..	..	..	..	..
	2019	696	696	..	..	..	..	..
	2020	668	668	..	..	..	..	..
	2021	678	678	..	..	..	..	..
Chile	2018	82,339	49,952	23,367	..	3,588	5,218	214
	2019	84,558	50,564	22,477	..	4,897	6,419	202
	2020	83,994	48,331	21,873	..	5,602	7,971	216
	2021	88,019	50,154	19,348	..	7,628	10,565	324
Colombia	2018	78,426	21,563	56,809	..	43	11	..
	2019	80,415	25,622	54,594	..	63	137	..
	2020	79,550	29,361	49,977	..	10	201	..
	2021	84,428	23,337	60,696	..	60	335	..
Costa Rica	2018	11,528	358	8,343	..	1,799	60	969
	2019	11,508	295	7,827	..	1,796	77	1,513
	2020	11,730	217	8,294	..	1,459	70	1,689
	2021	12,737	194	9,286	..	1,573	82	1,602
Cuba	2018	20,837	20,524	146	..	*44	*124	..
	2019	20,706	20,331	125	..	*65	*186	..
	2020	19,071	18,698	112	..	*68	*193	..
	2021	17,966	17,581	120	..	*69	*196	..
Curaçao	2018	866	612	..	..	234	20	..
	2019	*880	*637	..	..	218	25	..
	2020	*844	*626	..	..	191	27	..
	2021	846	622	..	..	197	27	..
Dominica	2018	110	*85	24	..	1	0	..
	2019	138	117	20	..	*1	0	..
	2020	142	122	19	..	*1	0	..
	2021	146	125	20	..	1	0	..
Dominican Republic	2018	19,651	17,144	1,780	..	497	230	..
	2019	19,857	18,121	928	..	552	256	..
	2020	19,293	16,544	1,176	..	1,139	434	..
	2021	21,314	17,865	1,859	..	1,231	358	..
Ecuador	2018	29,244	8,447	20,678	..	80	38	..
	2019	32,284	7,520	24,641	..	86	38	..
	2020	31,248	6,800	24,333	..	77	38	..
	2021	32,214	6,541	25,575	..	62	37	..
El Salvador	2018	5,359	1,937	1,631	..	..	246	1,545
	2019	6,070	2,582	1,526	..	..	489	1,474
	2020	6,350	1,790	2,084	..	14	904	1,557
	2021	6,475	1,888	1,821	..	132	1,074	1,559
Falkland Is. (Malvinas)	2018	18	12	..	..	5	0	..
	2019	18	13	..	..	5	0	..
	2020	18	14	..	..	4	0	..
	2021	19	14	..	..	4	0	..
Grenada	2018	235	231	..	..	0	3	..
	2019	245	241	..	..	0	4	..
	2020	227	223	..	..	0	4	..
	2021	229	225	..	..	0	*4	..
Guatemala	2018	13,568	7,572	5,218	..	320	208	250
	2019	*14,083	*8,855	4,497	..	221	199	312
	2020	12,835	*6,004	5,966	..	317	222	326
	2021	14,420	*7,954	5,646	..	325	230	265

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	160	159	..	..	1
..	..	..	..	199	198	..	..	1
..	..	..	..	*203	*201	..	..	2
..	..	..	..	*207	*205	..	..	2
..	..	..	..	658	658	..	..	..
..	..	..	..	696	696	..	..	..
..	..	..	..	668	668	..	..	..
..	..	..	..	678	678	..	..	..
6,975	6,910	60	5	75,364	43,043	23,307	..	9,015
6,525	6,488	30	8	78,033	44,076	22,447	..	11,510
6,625	6,548	58	19	77,369	41,783	21,816	..	13,770
6,628	6,402	168	59	81,391	43,752	19,180	..	18,458
9,483	9,322	161	..	68,943	12,241	56,648	..	54
11,039	10,872	157	10	69,377	14,749	54,437	..	191
11,008	10,858	140	10	68,541	18,503	49,837	..	201
11,292	11,080	200	12	73,136	12,257	60,496	..	383
250	200	..	50	11,279	159	8,343	..	2,777
267	200	..	67	11,241	96	7,827	..	3,319
254	193	..	61	11,476	24	8,294	..	3,158
264	191	..	73	12,473	3	9,286	..	3,184
763	763	..	..	20,074	19,761	146	..	*168
844	844	..	..	19,861	19,486	125	..	*251
914	914	..	..	18,157	17,784	112	..	*261
861	861	..	..	17,105	16,720	120	..	*265
114	114	..	..	752	498	..	..	254
43	43	..	..	*837	*595	..	..	243
24	24	..	..	*820	*601	..	..	219
14	14	..	..	832	608	..	..	224
*44	*44	..	..	66	41	24	..	1
*44	*44	..	..	94	73	20	..	*1
*44	*44	..	..	98	78	19	..	*1
*44	*44	..	..	102	81	20	..	2
2,011	1,856	7	148	17,640	15,288	1,773	..	580
3,512	3,348	..	164	16,345	14,774	928	..	643
1,663	1,385	..	279	17,630	15,160	1,176	..	1,294
1,562	1,414	..	148	19,752	16,452	1,859	..	1,441
5,494	4,129	1,365	..	23,750	4,318	19,313	..	118
5,914	4,254	1,660	..	26,369	3,266	22,980	..	123
5,636	4,049	1,587	..	25,612	2,751	22,747	..	115
6,243	4,451	1,792	..	25,971	2,089	23,783	..	99
227	27	83	117	5,132	1,910	1,548	..	1,675
382	29	81	273	5,688	2,553	1,445	..	1,690
527	27	94	406	5,822	1,763	1,990	..	2,069
618	21	86	510	5,857	1,867	1,735	..	2,255
..	..	..	..	18	12	..	..	5
..	..	..	..	18	13	..	..	5
..	..	..	..	18	14	..	..	4
..	..	..	..	19	14	..	..	5
7	3	..	4	228	228	..	..	..
7	3	..	4	238	238	..	..	..
8	3	..	4	220	220	..	..	..
*8	3	..	*5	221	221	..	..	..
1,046	1,018	27	..	12,522	6,554	5,191	..	778
1,335	1,308	27	..	*12,748	*7,547	4,470	..	732
891	859	32	..	11,944	*5,145	5,934	..	865
1,117	1,085	32	..	*13,303	*6,869	5,614	..	820

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Guyana	2018	1,136	1,125	..	..	0	11	..
	2019	1,135	1,123	..	..	0	11	..
	2020	1,136	1,124	..	..	0	12	..
	2021	1,138	1,125	..	..	0	13	..
Haiti	2018	1,048	848	197	..	..	3	..
	2019	1,064	887	174	..	..	3	..
	2020	1,029	882	144	..	..	3	..
	2021	1,033	896	134	..	..	3	..
Honduras	2018	9,629	4,253	3,158	..	929	993	297
	2019	10,586	5,866	2,430	..	818	1,176	296
	2020	10,059	5,232	2,701	..	707	1,113	307
	2021	10,957	4,940	3,765	..	775	1,129	348
Jamaica	2018	4,402	3,875	179	..	302	46	..
	2019	4,465	3,948	155	..	272	90	..
	2020	4,939	4,399	136	..	280	124	..
	2021	4,705	4,170	139	..	264	132	..
Mexico	2018	357,592	279,724	32,526	13,675	12,877	1,363	17,427
	2019	344,839	267,416	23,716	11,190	16,880	7,057	18,580
	2020	317,680	245,464	26,817	11,262	19,702	9,115	5,320
	2021	379,696	294,525	32,869	11,923	20,896	13,010	6,473
Montserrat	2018	14	14	..	..	..	..	..
	2019	14	14	..	..	..	0	..
	2020	14	14	..	..	..	0	..
	2021	16	14	..	..	..	2	..
Nicaragua	2018	4,636	2,599	411	..	801	24	801
	2019	4,576	2,815	227	..	730	26	778
	2020	3,791	1,873	574	..	550	26	767
	2021	4,213	2,197	599	..	656	27	734
Panama	2018	11,465	2,556	8,065	..	588	256	..
	2019	13,050	6,806	5,196	..	725	324	..
	2020	12,949	4,517	7,502	..	584	346	..
	2021	14,197	4,429	8,625	..	530	612	..
Paraguay	2018	59,212	2	59,211	..	..	..	..
	2019	49,448	2	49,446	..	..	..	..
	2020	46,373	2	46,371	..	..	..	..
	2021	40,576	2	40,574	..	..	..	..
Peru	2018	54,982	21,946	30,737	..	1,502	797	..
	2019	57,038	23,088	31,462	..	1,655	833	..
	2020	52,803	19,624	30,510	..	1,814	856	..
	2021	56,836	22,261	31,890	..	1,821	864	..
Puerto Rico	2018	17,453	17,226	38	..	108	81	..
	2019	18,886	18,444	41	..	159	242	..
	2020	18,774	18,321	51	..	143	259	..
	2021	19,184	18,705	40	..	166	273	..
Sint Maarten (Dutch part)	2018	*291	*291	..	..	..	..	..
	2019	*296	*296	..	..	..	..	..
	2020	265	265	..	..	..	..	..
	2021	*286	*286	..	..	..	..	..
St. Kitts-Nevis	2018	*230	*221	..	..	6	3	..
	2019	*233	*224	..	..	6	3	..
	2020	*221	*210	..	..	6	5	..
	2021	*219	*208	..	..	6	5	..
St. Lucia	2018	399	394	..	..	..	5	..
	2019	408	401	..	..	..	7	..
	2020	372	365	..	..	..	7	..
	2021	390	384	..	..	..	6	..

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
82	82	..	..	1,054	1,043	..	..	11
30	30	..	..	1,105	1,094	..	..	11
24	24	..	..	1,112	1,100	..	..	12
19	19	..	..	1,119	1,106	..	..	13
21	21	..	..	1,027	827	197	..	3
22	22	..	..	1,042	865	174	..	3
21	21	..	..	1,008	861	144	..	3
21	21	..	..	1,012	875	134	..	3
1,647	1,647	..	..	7,982	2,606	3,158	..	2,219
1,991	1,931	0	60	8,595	3,935	2,430	..	2,230
1,744	1,675	0	69	8,315	3,556	2,701	..	2,058
2,183	2,114	0	69	8,774	2,826	3,765	..	2,183
1,841	1,493	..	348	2,561	2,382	179	..	..
1,549	1,187	..	362	2,916	2,761	155	..	..
*964	*560	..	404	3,975	3,839	136	..	..
*1,019	*623	..	396	3,686	3,547	139	..	..
64,650	52,966	905	10,779	292,942	226,758	31,621	13,675	20,888
60,545	47,129	789	12,627	284,294	220,287	22,927	11,190	29,890
66,737	53,611	808	12,318	250,943	191,853	26,009	11,262	21,819
60,080	46,403	783	12,894	319,616	248,122	32,086	11,923	27,485
..	..	..	..	14	14	..	..	..
..	..	..	..	14	14	..	..	0
..	..	..	..	14	14	..	..	0
..	..	..	..	16	14	..	..	2
735	735	0	..	3,901	1,864	411	..	1,626
889	888	..	1	3,686	1,927	227	..	1,533
778	775	..	3	3,013	1,098	574	..	1,340
942	939	..	3	3,271	1,259	599	..	1,414
335	102	210	24	11,130	2,454	7,855	..	821
239	110	100	29	12,812	6,696	5,096	..	1,019
294	113	152	29	12,655	4,405	7,349	..	901
428	118	283	27	13,769	4,312	8,342	..	1,115
..	..	..	..	59,212	2	59,211	..	..
..	..	..	..	49,448	2	49,446	..	..
..	..	..	..	46,373	2	46,371	..	..
..	..	..	..	40,576	2	40,574	..	..
2,615	1,821	748	46	52,368	20,125	29,989	..	2,253
2,574	1,827	693	54	54,464	21,261	30,769	..	2,434
2,130	1,454	615	61	50,673	18,169	29,895	..	2,608
2,351	1,668	622	*62	54,485	20,593	31,268	..	2,623
220	220	..	..	17,233	17,006	38	..	189
*230	*230	..	..	18,656	18,214	41	..	401
*232	*232	..	..	18,542	18,089	51	..	402
*233	*233	..	..	18,951	18,472	40	..	439
..	..	..	..	*291	*291	..	..	..
..	..	..	..	*296	*296	..	..	..
..	..	..	..	265	265	..	..	..
..	..	..	..	*286	*286	..	..	..
*1	*1	..	..	*229	*220	..	..	9
*1	*1	..	..	*232	*223	..	..	9
*1	*1	..	..	*220	*209	..	..	10
*1	*1	..	..	*218	*207	..	..	10
..	..	..	..	399	394	..	..	5
..	..	..	..	408	401	..	..	7
..	..	..	..	372	365	..	..	7
..	..	..	..	390	384	..	..	6

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
St. Vincent-Grenadines	2018	151	125	24	..	..	2	..
	2019	154	130	22	..	..	3	..
	2020	152	125	22	..	..	5	..
	2021	145	122	19	..	..	4	..
Suriname	2018	1,792	782	1,000	..	..	10	..
	2019	1,868	906	952	..	..	10	..
	2020	1,730	1,043	674	..	..	12	..
	2021	1,594	734	847	..	..	13	..
Trinidad and Tobago	2018	9,225	9,220	..	..	0	5	..
	2019	9,188	9,183	..	..	0	5	..
	2020	9,225	9,220	..	..	0	5	..
	2021	9,262	9,256	..	..	0	6	..
Turks and Caicos Islands	2018	*258	*257	..	..	..	1	..
	2019	*261	*260	..	..	..	1	..
	2020	*256	*255	..	..	..	1	..
	2021	*267	*263	..	..	..	4	..
United States Virgin Is.	2018	625	596	..	..	0	28	..
	2019	637	605	..	..	0	*32	..
	2020	666	635	..	..	0	*32	..
	2021	710	675	..	..	0	*34	..
Uruguay	2018	14,623	2,921	6,557	..	4,732	414	..
	2019	16,090	2,806	8,108	..	4,752	424	..
	2020	13,557	3,526	4,094	..	5,476	462	..
	2021	15,953	5,206	5,273	..	4,991	483	..
Venezuela (Bolivar. Rep.)	2018	94,248	28,917	65,282	..	*43	5	*1
	2019	79,676	16,819	62,789	..	60	6	*1
	2020	82,471	15,254	67,190	..	20	6	*1
	2021	84,730	16,858	67,845	..	19	6	*2
Northern America	**2018**	**5,115,745**	**3,047,421**	**703,389**	**942,060**	**309,302**	**89,293**	**24,279**
	2019	**5,045,733**	**2,951,806**	**692,823**	**944,527**	**331,073**	**101,895**	**23,609**
	2020	**4,912,709**	**2,770,396**	**695,260**	**921,345**	**377,579**	**124,121**	**24,008**
	2021	**5,018,865**	**2,858,173**	**657,396**	**904,180**	**417,567**	**157,369**	**24,180**
Bermuda	2018	644	642	..	..	..	*2	..
	2019	613	611	..	..	..	*2	..
	2020	*590	*588	..	..	..	*2	..
	2021	*595	*593	..	..	..	*2	..
Canada	2018	659,061	134,555	385,967	100,731	33,468	4,107	233
	2019	652,776	132,277	381,843	101,197	32,873	4,415	171
	2020	651,458	125,783	386,617	98,195	35,761	4,790	312
	2021	642,974	126,266	382,867	92,629	34,753	6,043	416
Greenland	2018	550	*132	418	..	..	..	..
	2019	531	*122	409	..	..	..	..
	2020	566	*136	431	..	..	..	..
	2021	569	*137	433	..	..	..	..
St. Pierre-Miquelon	2018	51	51	..	..	..	..	..
	2019	52	52	..	..	..	..	..
	2020	51	51	..	..	..	..	..
	2021	51	51	..	..	..	..	..
United States	2018	4,455,439	2,912,041	317,004	841,329	275,834	85,184	24,046
	2019	4,391,761	2,818,743	310,571	843,330	298,200	97,478	23,438
	2020	4,260,044	2,643,838	308,213	823,150	341,818	119,329	23,696
	2021	4,374,676	2,731,127	274,096	811,551	382,814	151,324	23,764
Oceania	**2018**	**318,311**	**237,887**	**44,203**	**..**	**17,286**	**10,267**	**8,668**
	2019	**322,011**	**234,228**	**43,722**	**..**	**20,036**	**15,293**	**8,732**
	2020	**321,870**	**227,246**	**41,567**	**..**	**22,760**	**21,551**	**8,746**
	2021	**322,540**	**216,201**	**41,873**	**..**	**27,227**	**28,321**	**8,918**

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
1	..	..	1	150	125	24	..	1
1	..	..	1	153	130	22	..	2
1	..	..	1	151	125	22	..	4
*1	..	..	*1	144	122	19	..	2
1,440	440	1,000	..	352	342	..	..	10
1,471	519	952	..	397	387	..	..	10
1,246	572	674	..	484	471	..	..	12
1,322	475	847	..	272	259	..	..	13
76	76	..	..	9,149	9,144	..	..	5
76	76	..	..	9,112	9,108	..	..	5
76	76	..	..	9,149	9,144	..	..	5
76	76	..	..	9,185	9,180	..	..	6
..	..	..	..	*258	*257	..	..	1
..	..	..	..	*261	*260	..	..	1
..	..	..	..	*256	*255	..	..	1
..	..	..	..	*267	*263	..	..	4
*14	..	..	*14	611	596	..	..	15
*17	..	..	*17	620	605	..	..	15
*17	..	..	*17	649	635	..	..	14
*17	..	..	*17	693	675	..	..	17
1,767	1,744	..	23	12,857	1,177	6,557	..	5,123
1,702	1,668	..	34	14,388	1,138	8,108	..	5,142
1,733	1,693	..	40	11,825	1,833	4,094	..	5,898
1,768	1,723	..	46	14,185	3,483	5,273	..	5,429
1,823	1,818	..	4	92,426	27,099	65,282	..	*45
1,556	1,552	..	4	78,120	15,267	62,789	..	63
854	849	..	4	81,618	14,405	67,190	..	23
854	849	..	4	83,876	16,009	67,845	..	22
255,648	**196,667**	**30,970**	**28,011**	**4,860,097**	**2,850,755**	**672,419**	**942,060**	**394,864**
260,668	**198,170**	**30,115**	**32,384**	**4,785,065**	**2,753,636**	**662,708**	**944,527**	**424,193**
261,037	**194,514**	**29,010**	**37,514**	**4,651,672**	**2,575,882**	**666,251**	**921,345**	**488,194**
254,861	**190,015**	**22,133**	**42,713**	**4,764,004**	**2,668,158**	**635,263**	**904,180**	**556,402**
*15	*13	..	*2	629	629	..	..	..
*15	*13	..	*2	598	598	..	..	..
*15	*13	..	*2	*575	*575	..	..	..
*15	*13	..	*2	*580	*580	..	..	..
62,362	30,675	29,553	2,134	596,699	103,880	356,414	100,731	35,674
61,156	29,908	28,876	2,372	591,620	102,369	352,967	101,197	35,087
60,944	30,585	27,778	2,581	590,514	95,198	358,839	98,195	38,282
53,680	30,193	20,915	2,572	589,294	96,073	361,952	92,629	38,640
..	..	..	..	550	*132	418	..	..
..	..	..	..	531	*122	409	..	..
..	..	..	..	566	*136	431	..	..
..	..	..	..	569	*137	433	..	..
..	..	..	..	51	51	..	..	..
..	..	..	..	52	52	..	..	..
..	..	..	..	51	51	..	..	..
..	..	..	..	51	51	..	..	..
193,271	165,979	1,417	25,875	4,262,168	2,746,063	315,587	841,329	359,190
199,497	168,249	1,239	30,010	4,192,264	2,650,495	309,332	843,330	389,106
200,078	163,916	1,232	34,931	4,059,965	2,479,922	306,981	823,150	449,912
201,166	159,809	1,218	40,139	4,173,511	2,571,318	272,878	811,551	517,762
38,591	**28,715**	**213**	**9,663**	**279,721**	**209,172**	**43,990**	**..**	**26,558**
43,691	**30,475**	**213**	**13,003**	**278,320**	**203,753**	**43,509**	**..**	**31,058**
45,968	**30,744**	**204**	**15,019**	**275,903**	**196,501**	**41,363**	**..**	**38,038**
49,959	**30,358**	**254**	**19,347**	**272,582**	**185,843**	**41,619**	**..**	**45,119**

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
American Samoa	2018	*168	*163	..	..	..	5	..
	2019	*169	*164	..	..	..	*5	..
	2020	*171	*166	..	..	..	*5	..
	2021	*172	*167	..	..	..	*5	..
Australia	2018	260,999	219,884	16,021	..	15,164	9,930	0
	2019	264,025	215,498	15,967	..	17,712	14,848	..
	2020	265,178	208,599	15,150	..	20,396	21,033	..
	2021	265,554	198,102	15,200	..	24,535	27,717	..
Cook Islands	2018	42	32	..	..	..	10	..
	2019	39	29	..	..	..	10	..
	2020	34	26	..	..	..	8	..
	2021	34	27	..	..	..	7	..
Fiji	2018	1,045	464	567	..	3	12	..
	2019	1,074	498	559	..	3	13	..
	2020	989	417	558	..	1	*13	..
	2021	949	389	548	..	0	12	..
French Polynesia	2018	680	475	164	..	0	40	..
	2019	695	494	159	..	0	43	..
	2020	668	464	159	..	0	44	..
	2021	672	482	142	..	0	47	..
Guam	2018	1,715	1,646	..	..	1	68	..
	2019	1,724	1,655	..	..	1	68	..
	2020	1,683	1,614	..	..	1	68	..
	2021	*1,712	*1,643	..	..	*1	*68	..
Kiribati	2018	35	30	..	..	..	5	..
	2019	38	33	..	..	..	5	..
	2020	*37	*32	..	..	..	*5	..
	2021	*38	*33	..	..	..	*5	..
Marshall Islands	2018	*85	*83	..	..	..	2	..
	2019	82	80	..	..	..	2	..
	2020	*82	*80	..	..	..	2	..
	2021	*82	*80	..	..	..	2	..
Micronesia (Fed. States of)	2018	*70	*65	1	..	*1	3	..
	2019	*70	*65	1	..	*1	3	..
	2020	*70	*65	*1	..	*1	*3	..
	2021	*70	*64	*1	..	*1	*3	..
Nauru	2018	36	35	..	..	..	1	..
	2019	36	35	..	..	..	1	..
	2020	38	36	..	..	..	2	..
	2021	*44	*41	..	..	..	*3	..
New Caledonia	2018	3,486	3,077	317	..	45	47	..
	2019	3,334	2,876	285	..	57	116	..
	2020	3,233	2,729	305	..	49	150	..
	2021	2,910	2,256	425	..	41	188	..
New Zealand	2018	44,695	8,029	26,252	..	2,068	100	8,246
	2019	45,147	8,859	25,596	..	2,255	128	8,310
	2020	44,530	9,454	24,266	..	2,305	160	8,346
	2021	44,610	9,035	24,232	..	2,642	207	8,493
Niue	2018	*4	*3	..	..	..	0	..
	2019	*4	*3	..	..	..	0	..
	2020	*4	*3	..	..	..	0	..
	2021	*4	*3	..	..	..	0	..
Northern Mariana Islands	2018	*390	*390	..	..	..	..	..
	2019	*392	*392	..	..	..	..	..
	2020	*293	*290	..	..	..	*3	..
	2021	*305	*300	..	..	..	*5	..

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	*168	*163	..	..	5
..	..	..	..	*169	*164	..	..	*5
..	..	..	..	*171	*166	..	..	*5
..	..	..	..	*172	*167	..	..	*5
31,974	22,969	..	9,005	229,025	196,915	16,021	..	16,089
36,981	24,671	..	12,310	227,044	190,827	15,967	..	20,250
39,762	25,450	..	14,312	225,417	183,150	15,150	..	27,117
43,799	25,254	..	18,545	221,756	172,849	15,200	..	33,707
..	..	..	..	42	32	..	..	10
..	..	..	..	39	29	..	..	10
..	..	..	..	34	26	..	..	8
..	..	..	..	34	27	..	..	7
40	40	..	..	1,005	424	567	..	15
49	49	..	..	1,025	450	559	..	16
67	67	..	..	922	350	558	..	*14
61	61	..	..	888	328	548	..	12
..	..	..	..	680	475	164	..	40
..	..	..	..	695	494	159	..	43
..	..	..	..	668	464	159	..	44
..	..	..	..	672	482	142	..	47
*16	..	..	*16	1,698	1,646	..	..	52
*16	..	..	*16	1,707	1,655	..	..	52
*16	..	..	*16	1,667	1,614	..	..	52
*16	..	..	*16	*1,695	*1,643	..	..	*52
*2	*2	..	..	33	28	..	..	5
*2	*2	..	..	35	30	..	..	5
*2	*2	..	..	*35	*30	..	..	*5
*2	*2	..	..	*36	*31	..	..	*5
..	..	..	..	*85	*83	..	..	2
..	..	..	..	82	80	..	..	2
..	..	..	..	*82	*80	..	..	2
..	..	..	..	*82	*80	..	..	2
..	..	..	..	*70	*65	1	..	4
..	..	..	..	*70	*65	1	..	4
..	..	..	..	*70	*65	*1	..	*4
..	..	..	..	*70	*64	*1	..	*4
..	..	..	..	36	35	..	..	1
..	..	..	..	36	35	..	..	1
..	..	..	..	38	36	..	..	2
..	..	..	..	*44	*41	..	..	*3
2,077	2,068	..	9	1,409	1,009	317	..	83
2,008	1,989	..	19	1,325	887	285	..	154
1,943	1,913	..	30	1,290	815	305	..	169
1,578	1,524	..	53	1,332	732	425	..	175
1,512	1,298	4	210	43,183	6,731	26,248	..	10,204
1,636	1,397	4	236	43,511	7,462	25,592	..	10,457
1,561	1,296	4	261	42,969	8,158	24,262	..	10,549
1,689	1,378	4	307	42,921	7,657	24,228	..	11,035
..	..	..	..	*4	*3	..	..	0
..	..	..	..	*4	*3	..	..	0
..	..	..	..	*4	*3	..	..	0
..	..	..	..	*4	*3	..	..	0
..	..	..	..	*390	*390	..	..	..
..	..	..	..	*392	*392	..	..	..
..	..	..	..	*293	*290	..	..	*3
..	..	..	..	*305	*300	..	..	*5

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Palau	2018	*96	*92	..	..	..	*4	..
	2019	97	91	..	..	..	*6	..
	2020	*98	*92	..	..	..	*6	..
	2021	98	92	..	..	..	*6	..
Papua New Guinea	2018	*4,333	*3,079	830	..	..	2	422
	2019	*4,625	*3,104	1,095	..	..	4	422
	2020	4,300	*2,819	1,077	..	..	5	400
	2021	*4,824	*3,134	1,260	..	..	5	*425
Samoa	2018	154	89	43	..	0	21	..
	2019	169	96	50	..	0	24	..
	2020	172	107	41	..	0	24	..
	2021	171	94	55	..	0	21	..
Solomon Islands	2018	104	100	1	..	..	3	..
	2019	107	103	1	..	..	3	..
	2020	106	102	1	..	..	3	..
	2021	106	102	1	..	..	3	..
Tonga	2018	66	62	..	..	0	4	..
	2019	71	64	..	..	0	6	..
	2020	73	64	..	..	3	7	..
	2021	75	66	..	..	2	6	..
Tuvalu	2018	9	7	..	..	..	2	..
	2019	9	7	..	..	..	2	..
	2020	9	7	..	..	..	2	..
	2021	9	7	..	..	..	2	..
Vanuatu	2018	81	63	8	..	4	6	..
	2019	84	63	8	..	6	7	..
	2020	78	57	8	..	6	*7	..
	2021	79	59	8	..	4	*7	..
Wallis and Futuna Is.	2018	*20	*20	0	..	..	0	..
	2019	*21	*20	0	..	..	0	..
	2020	*23	*22	0	..	..	0	..
	2021	*24	*23	0	..	..	0	..

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
*10	*10	..	..	*86	*82	..	..	*4
*12	*12	..	..	85	79	..	..	*6
*12	*12	..	..	*86	*80	..	..	*6
*12	*12	..	..	86	80	..	..	*6
*2,957	*2,326	209	422	1,376	753	621	..	2
*2,983	*2,352	209	422	1,642	752	886	..	4
*2,601	*2,001	200	400	1,700	818	877	..	5
*2,798	*2,123	*250	*425	2,026	1,011	1,010	..	5
0	..	..	0	154	89	43	..	21
0	..	..	0	169	96	50	..	24
0	..	..	0	172	107	41	..	24
0	..	..	0	171	94	55	..	22
3	3	..	..	101	97	1	..	3
3	3	..	..	104	99	1	..	3
*3	*3	..	..	103	99	1	..	3
*4	*4	..	..	103	99	1	..	3
..	..	..	..	66	62	..	..	4
..	..	..	..	71	64	..	..	6
..	..	..	..	73	64	..	..	9
..	..	..	..	75	66	..	..	9
..	..	..	..	9	7	..	..	2
..	..	..	..	9	7	..	..	2
..	..	..	..	9	7	..	..	2
..	..	..	..	9	7	..	..	2
..	..	..	..	81	63	8	..	11
..	..	..	..	84	63	8	..	13
..	..	..	..	78	57	8	..	*13
..	..	..	..	79	59	8	..	*11
..	..	..	..	*20	*20	0	..	0
..	..	..	..	*21	*20	0	..	0
..	..	..	..	*23	*22	0	..	0
..	..	..	..	*24	*23	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 84: World electricity generation by region, 1990-2021

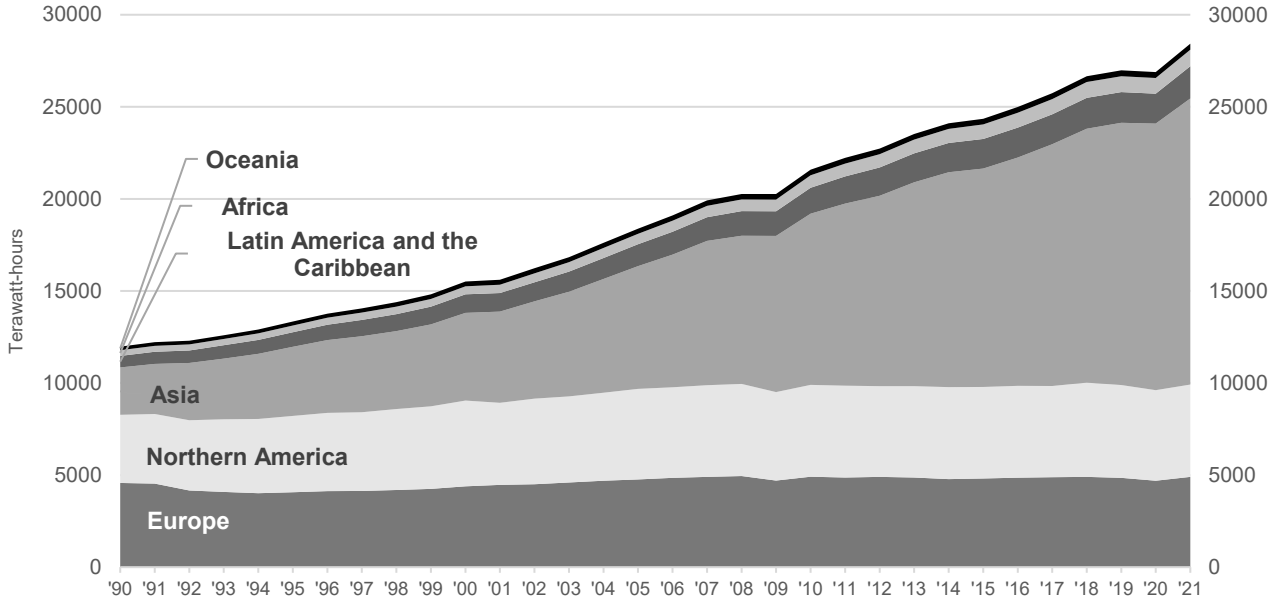


Figure 85: Major electricity producing countries, 2021

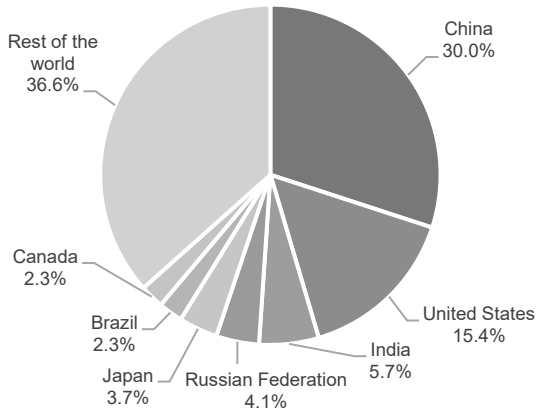


Figure 86: Major electricity consuming countries, 2021

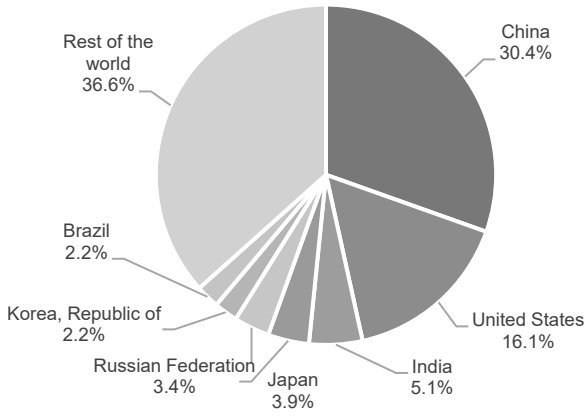


Table 34

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	**2018**	**26,661,706**	**736,949**	**723,355**	**26,675,300**	**3,472**	**4,367,591**	**22,286,522**
	2019	**26,985,732**	**746,824**	**724,083**	**27,008,473**	**3,478**	**4,441,663**	**22,610,661**
	2020	**26,888,335**	**780,404**	**743,508**	**26,925,231**	**3,434**	**4,355,054**	**22,586,960**
	2021	**28,428,472**	**809,264**	**772,893**	**28,464,843**	**3,599**	**4,589,102**	**23,832,187**
Africa	**2018**	**854,068**	**37,735**	**31,585**	**860,217**	**665**	**173,376**	**689,678**
	2019	**861,842**	**34,573**	**34,929**	**861,486**	**649**	**178,433**	**672,161**
	2020	**850,719**	**38,606**	**36,168**	**853,157**	**628**	**179,882**	**675,618**
	2021	**901,998**	**38,524**	**37,509**	**903,013**	**649**	**204,226**	**696,122**
Algeria	2018	76,662	506	597	76,571	1,826	18,419	58,154
	2019	81,531	531	673	81,389	1,906	19,200	62,184
	2020	79,154	513	574	79,093	1,820	20,196	58,898
	2021	85,391	379	1,529	84,241	1,907	20,798	63,442
Angola	2018	13,513	..	..	13,513	432	1,769	11,743
	2019	14,247	64	..	14,311	442	2,129	*12,182
	2020	14,488	60	..	14,547	435	*2,258	*12,289
	2021	14,741	59	..	14,799	429	*2,214	*12,585
Benin	2018	202	1,195	..	1,397	117	295	1,183
	2019	529	974	2	1,501	122	363	1,256
	2020	989	574	2	1,561	123	346	1,205
	2021	1,127	694	2	1,819	140	394	1,409
Botswana	2018	3,105	1,189	..	4,294	1,752	785	3,209
	2019	2,508	1,746	..	4,254	1,702	935	3,208
	2020	2,182	1,838	..	4,020	1,579	845	3,288
	2021	2,486	1,662	2	4,146	1,602	942	3,198
Burkina Faso	2018	*1,728	837	..	*2,565	*126	274	2,222
	2019	*1,554	1,087	..	*2,642	*126	96	2,474
	2020	*1,427	*1,486	..	*2,913	*135	*300	*2,556
	2021	*1,659	*1,381	..	*3,040	*138	*310	*2,668
Burundi	2018	246	*100	..	346	30	*70	*276
	2019	269	*100	..	369	31	*73	*296
	2020	276	*89	..	365	30	*71	*294
	2021	262	*101	..	363	29	*67	*296
Cabo Verde	2018	431	..	..	431	754	122	*309
	2019	444	..	..	444	770	121	*323
	2020	420	..	..	420	721	121	*299
	2021	442	..	..	442	752	123	*320
Cameroon	2018	8,590	49	..	8,638	344	2,056	6,570
	2019	8,483	53	..	8,537	331	2,111	6,488
	2020	8,650	58	..	8,708	329	2,153	6,616
	2021	7,940	..	..	7,940	292	1,976	6,073
Central African Rep.	2018	147	..	..	147	29	*10	*137
	2019	149	..	..	149	29	*10	*139
	2020	*146	..	..	*146	*27	*10	*136
	2021	*145	..	..	*145	*26	*11	*135
Chad	2018	312	..	..	312	20	*65	*245
	2019	317	..	..	317	20	*67	*249
	2020	335	..	..	335	20	*73	*259
	2021	335	..	..	335	20	*73	*256
Comoros	2018	*98	..	..	*98	*127	*25	*74
	2019	*108	..	..	*108	*137	*27	*81
	2020	*130	..	..	*130	*161	*33	*98
	2021	*136	..	..	*136	*165	*34	*102

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	2018	3,096	28	26	3,098	569	1,730	1,529
	2019	3,655	23	44	3,634	652	2,032	1,554
	2020	3,833	18	16	3,835	673	2,142	1,518
	2021	4,021	22	26	4,017	688	2,244	1,547
Côte d'Ivoire	2018	10,058	102	1,156	9,004	353	2,241	6,926
	2019	10,697	77	1,255	9,518	364	1,813	7,297
	2020	11,274	152	1,333	10,093	376	1,985	8,143
	2021	11,579	199	889	10,889	396	2,036	9,016
Dem. Rep. of the Congo	2018	10,556	829	75	11,310	130	*687	10,711
	2019	11,491	1,005	69	12,428	138	1,057	11,563
	2020	12,460	1,189	50	13,599	146	1,152	*12,166
	2021	13,135	1,189	50	14,274	149	2,072	*12,166
Djibouti	2018	55	526	..	581	550	*112	*469
	2019	92	*514	..	*606	*564	*104	*502
	2020	126	502	..	628	576	*111	*517
	2021	*126	529	..	654	592	*113	*541
Egypt	2018	202,838	81	425	202,494	1,952	*36,658	165,610
	2019	194,279	74	360	193,993	1,837	38,009	156,340
	2020	197,201	95	885	196,411	1,828	39,035	157,435
	2021	222,544	176	1,643	221,076	2,023	55,901	158,046
Equatorial Guinea	2018	1,355	..	..	1,355	902	217	1,170
	2019	*1,912	..	..	*1,912	*1,231	*195	*1,717
	2020	*2,038	..	..	*2,038	*1,277	*206	*1,832
	2021	*1,770	..	..	*1,770	*1,083	*206	*1,564
Eritrea	2018	352	..	..	352	102	61	289
	2019	363	..	..	363	104	63	299
	2020	375	..	..	375	106	65	309
	2021	385	..	..	385	106	67	317
Eswatini	2018	520	1,020	..	1,541	1,328	206	1,323
	2019	585	942	..	1,527	1,305	193	1,343
	2020	541	1,044	..	1,584	1,342	204	1,381
	2021	581	914	..	1,495	1,254	156	1,339
Ethiopia	2018	14,554	..	1,000	13,554	122	3,238	10,558
	2019	15,068	..	1,145	13,922	122	3,289	10,933
	2020	15,829	..	1,637	14,191	121	3,138	11,016
	2021	15,538	..	1,665	13,873	115	3,075	11,199
Gabon	2018	2,295	511	..	2,806	1,280	612	2,194
	2019	2,306	511	..	2,817	1,256	553	2,263
	2020	2,423	511	..	2,933	1,279	660	2,274
	2021	2,344	528	..	2,872	1,227	549	2,323
Gambia	2018	394	..	..	394	161	*97	*297
	2019	462	..	..	462	184	*116	*347
	2020	485	..	..	485	188	*160	*325
	2021	516	..	..	516	196	*178	*338
Ghana	2018	16,425	140	740	15,825	513	1,371	14,401
	2019	18,368	127	1,430	17,065	541	1,364	15,232
	2020	20,170	58	1,801	18,427	573	1,286	16,531
	2021	22,051	44	1,734	20,360	620	2,293	18,067
Guinea	2018	1,884	..	..	1,884	150	*304	*1,580
	2019	2,020	..	..	2,020	157	*337	*1,682
	2020	2,420	..	..	2,420	183	*396	*2,024
	2021	2,995	..	..	2,995	221	*410	*2,585

Table 34

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	2018	*82	..	..	*82	*42	*2	83
	2019	*82	..	..	*82	*42	0	*89
	2020	*82	..	..	*82	*41	0	*84
	2021	*82	..	..	*82	*40	0	*85
Kenya	2018	11,182	130	35	11,277	226	2,531	8,702
	2019	11,621	212	16	11,816	232	2,836	8,854
	2020	11,604	137	17	11,724	226	2,911	8,955
	2021	12,377	288	18	12,646	239	2,926	9,734
Lesotho	2018	517	397	3	911	414	116	807
	2019	393	542	1	934	420	130	791
	2020	427	442	1	868	385	88	673
	2021	532	427	1	958	420	103	689
Liberia	2018	*405	*20	..	*425	*87	*147	*278
	2019	*418	*20	..	*438	*88	*154	*284
	2020	*446	*20	..	*466	*92	*162	*304
	2021	478	20	..	498	96	*181	*317
Libya	2018	34,171	465	..	34,636	5,347	7,736	17,621
	2019	34,629	776	..	35,405	5,390	7,787	17,721
	2020	29,499	1,259	..	30,758	4,622	6,785	17,631
	2021	31,020	784	..	31,804	4,722	7,126	18,044
Madagascar	2018	2,099	..	..	2,099	78	*159	*1,940
	2019	2,178	..	..	2,178	79	*178	*1,999
	2020	2,167	..	..	2,167	77	*170	*1,997
	2021	2,273	..	..	2,273	79	*175	*2,099
Malawi	2018	1,803	..	19	1,783	97	*306	1,477
	2019	1,937	..	20	1,917	102	*341	1,576
	2020	*1,882	..	19	*1,863	*96	*276	1,587
	2021	*1,955	..	*20	*1,935	*97	*285	*1,650
Mali	2018	*3,289	*198	*550	*2,937	*147	*368	*2,568
	2019	3,535	*180	*556	3,159	154	*383	*2,751
	2020	3,728	*172	*569	3,331	157	*432	*2,899
	2021	*3,969	*174	*590	*3,553	*162	*446	3,107
Mauritania	2018	1,281	198	..	1,479	346	*335	1,143
	2019	1,477	204	..	1,681	383	*312	1,369
	2020	*1,461	*225	..	*1,686	*375	*296	1,390
	2021	*1,364	*200	..	*1,564	*339	*244	1,320
Mauritius	2018	3,131	..	..	3,131	2,417	209	2,918
	2019	3,237	..	..	3,237	2,497	227	3,001
	2020	2,883	..	..	2,883	2,221	189	2,683
	2021	2,992	..	..	2,992	2,304	244	2,748
Morocco	2018	35,822	3,724	350	39,196	1,075	6,582	32,614
	2019	41,650	526	1,453	40,723	1,105	7,272	33,451
	2020	40,057	856	624	40,289	1,082	7,386	32,903
	2021	42,562	688	851	42,399	1,126	7,860	34,539
Mozambique	2018	17,140	8,327	9,738	15,729	535	2,991	12,344
	2019	18,981	8,276	10,771	16,487	544	3,131	12,836
	2020	19,026	8,100	11,511	15,616	501	3,126	12,339
	2021	18,863	8,133	11,096	15,900	496	3,248	12,532
Namibia	2018	1,437	3,337	114	4,660	1,937	*482	*4,171
	2019	1,402	3,161	119	4,444	1,816	*410	*4,040
	2020	2,012	2,785	593	4,204	1,689	*443	*3,759
	2021	1,467	2,825	382	3,910	1,545	*387	*3,521

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	2018	480	1,253	0	1,733	77	*276	*1,379
	2019	626	1,057	..	1,683	72	425	1,239
	2020	635	1,108	..	1,742	72	502	1,297
	2021	*658	1,122	..	1,780	70	*428	*1,352
Nigeria	2018	33,384	..	..	33,384	168	6,195	26,570
	2019	33,110	..	..	33,110	163	6,160	27,162
	2020	35,059	..	..	35,059	168	6,505	27,627
	2021	36,038	..	..	36,038	169	6,629	28,335
Rwanda	2018	759	96	5	850	68	168	682
	2019	798	99	6	892	69	170	*722
	2020	838	28	6	860	65	*145	*715
	2021	976	31	9	998	74	*211	788
Sao Tome and Principe	2018	*110	..	..	*110	*519	*44	*65
	2019	110	..	..	110	510	*41	*69
	2020	*110	..	..	*110	*501	*41	*69
	2021	*109	..	..	*109	*488	*40	*68
Senegal	2018	4,502	360	..	4,862	312	727	3,998
	2019	*4,453	324	..	*4,777	*299	816	3,960
	2020	5,804	356	..	6,160	375	821	4,585
	2021	6,515	315	..	6,831	405	1,068	5,400
Seychelles	2018	518	..	..	518	5,023	54	*464
	2019	540	..	..	540	5,174	61	*479
	2020	535	..	..	535	5,068	53	*482
	2021	536	..	..	536	5,031	*53	*483
Sierra Leone	2018	320	..	..	320	41	*89	*231
	2019	260	..	..	260	32	*80	*180
	2020	253	..	..	253	31	*79	*174
	2021	251	..	..	251	30	*72	*179
Somalia	2018	367	..	..	367	24	*17	350
	2019	367	..	..	367	23	*16	*351
	2020	370	..	..	370	22	*15	*355
	2021	383	..	..	383	22	*16	*367
South Africa	2018	256,064	8,320	14,458	249,926	4,359	57,897	205,423
	2019	252,639	7,823	14,482	245,980	4,235	58,953	187,137
	2020	239,715	9,829	13,647	235,897	4,012	58,242	189,146
	2021	244,383	10,137	13,705	240,815	4,055	59,657	193,404
South Sudan	2018	548	..	..	548	53	37	517
	2019	557	..	..	557	53	38	521
	2020	558	..	..	558	53	38	507
	2021	583	..	..	583	54	39	524
St. Helena and Depend.	2018	12	..	..	12	2,181	*1	11
	2019	12	..	..	12	2,187	*2	10
	2020	11	..	..	11	2,068	*2	10
	2021	11	..	..	11	1,987	1	9
Sudan	2018	16,398	808	..	17,206	410	3,506	13,700
	2019	16,814	*207	..	17,021	394	*3,794	*12,639
	2020	17,642	1,318	..	18,960	427	3,367	*15,593
	2021	*16,775	993	..	*17,768	*389	*3,890	*13,877
Togo	2018	588	1,076	192	1,473	183	212	1,239
	2019	718	837	118	1,437	174	117	1,328
	2020	699	815	..	1,514	179	113	1,378
	2021	848	801	..	1,648	191	137	1,475

Table 34

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	2018	21,012	382	484	20,910	1,752	4,416	16,504
	2019	22,140	472	631	21,981	1,824	4,503	17,430
	2020	21,633	369	969	21,034	1,729	4,536	16,453
	2021	22,143	1,331	302	23,172	1,890	5,412	17,698
Uganda	2018	4,040	84	233	3,891	94	789	3,067
	2019	4,364	104	299	4,169	97	826	3,233
	2020	4,447	21	222	4,246	96	811	3,269
	2021	4,769	24	393	4,400	96	1,089	3,581
United Rep. of Tanzania	2018	7,543	118	..	7,660	132	1,354	6,232
	2019	7,837	113	..	7,950	133	1,302	6,583
	2020	7,855	114	..	7,969	129	1,327	6,506
	2021	8,667	144	..	8,811	139	1,410	7,189
Zambia	2018	16,282	152	1,226	15,208	853	*2,294	12,898
	2019	15,115	198	976	14,338	780	*1,997	12,341
	2020	15,237	130	1,340	14,028	741	*2,525	11,504
	2021	17,718	18	2,152	15,584	800	*2,753	12,831
Zimbabwe	2018	9,369	1,177	161	10,386	690	1,912	8,506
	2019	8,402	1,612	504	9,510	619	1,714	8,061
	2020	6,673	2,337	355	8,655	552	1,552	7,336
	2021	8,454	2,194	450	10,199	638	1,854	8,645
Asia	**2018**	**13,795,921**	**113,638**	**102,446**	**13,807,113**	**3,008**	**2,250,312**	**11,568,054**
	2019	**14,235,508**	**131,099**	**100,373**	**14,266,234**	**3,082**	**2,329,845**	**12,031,052**
	2020	**14,481,297**	**148,427**	**110,237**	**14,519,486**	**3,113**	**2,366,432**	**12,164,802**
	2021	**15,533,270**	**160,166**	**116,476**	**15,576,961**	**3,318**	**2,497,957**	**13,093,460**
Afghanistan	2018	1,301	4,986	..	6,287	171	*730	*5,552
	2019	1,626	4,912	..	6,538	173	*759	*5,777
	2020	1,371	5,152	..	6,523	167	*759	*5,760
	2021	*1,409	*5,100	..	*6,509	*162	*760	*5,749
Armenia	2018	7,791	204	1,627	6,368	2,245	965	5,403
	2019	7,680	293	1,251	6,721	2,383	882	5,839
	2020	7,839	320	1,333	6,826	2,433	935	5,890
	2021	7,879	368	995	7,252	2,598	910	6,343
Azerbaijan	2018	25,229	131	1,445	23,915	2,356	6,081	17,812
	2019	26,073	137	1,491	24,719	2,416	6,024	18,666
	2020	25,839	137	1,151	24,825	2,414	5,783	19,019
	2021	27,889	152	1,673	26,367	2,557	5,954	20,386
Bahrain	2018	29,516	448	182	29,782	20,024	795	28,987
	2019	33,453	652	447	33,658	22,526	871	32,783
	2020	33,374	652	447	33,579	22,727	1,591	31,820
	2021	33,887	462	444	33,905	23,170	1,013	32,529
Bangladesh	2018	*77,935	4,783	..	*82,718	*505	11,686	72,578
	2019	85,046	6,786	..	91,832	555	14,311	79,198
	2020	85,500	6,674	..	92,174	551	14,480	79,881
	2021	95,481	8,103	..	103,584	612	15,719	90,392
Bhutan	2018	6,960	134	4,581	2,513	3,298	262	2,186
	2019	8,858	96	6,147	2,808	3,659	256	2,279
	2020	11,371	82	9,260	2,193	2,839	241	1,961
	2021	11,371	98	8,076	3,393	4,364	267	2,455
Brunei Darussalam	2018	4,294	..	..	4,294	9,887	1,009	3,284
	2019	4,933	..	..	4,933	11,261	1,028	3,906
	2020	5,736	..	..	5,736	12,985	972	4,732
	2021	5,700	..	..	5,700	12,798	1,017	4,797

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	2018	8,328	1,567	..	9,895	617	1,090	8,632
	2019	8,995	3,063	..	12,058	744	1,360	10,191
	2020	8,982	3,820	..	12,802	781	1,782	11,092
	2021	10,159	3,385	..	13,544	816	1,920	11,356
China	2018	7,166,133	5,688	20,906	7,150,915	5,046	1,149,860	6,000,960
	2019	7,503,458	4,860	21,650	7,486,668	5,265	1,187,949	6,298,689
	2020	7,779,060	4,750	21,790	7,762,020	5,447	1,194,448	6,567,566
	2021	8,534,273	5,940	20,180	8,520,033	5,975	1,266,148	7,253,888
China, Hong Kong SAR	2018	36,565	12,599	556	48,608	6,497	4,303	44,305
	2019	36,911	12,381	..	49,292	6,576	4,373	44,919
	2020	35,189	12,699	..	47,888	6,384	3,687	44,201
	2021	37,071	12,555	..	49,626	6,622	3,812	45,813
China, Macao SAR	2018	653	4,911	..	5,564	8,547	250	5,319
	2019	830	4,976	..	5,806	8,748	257	5,550
	2020	562	4,853	..	5,415	8,007	223	5,192
	2021	496	5,192	..	5,688	8,284	234	5,454
Cyprus	2018	5,061	..	..	5,061	4,152	397	4,665
	2019	5,141	..	..	5,141	4,184	419	4,724
	2020	4,849	..	..	4,849	3,918	446	4,377
	2021	5,119	..	..	5,119	4,115	469	4,650
Georgia	2018	12,149	1,522	602	13,069	3,464	1,113	11,937
	2019	11,857	1,763	380	13,240	3,511	1,181	12,059
	2020	11,160	1,712	256	12,616	3,350	1,136	11,479
	2021	12,645	3,190	1,575	14,260	3,795	1,142	13,119
India	2018	1,521,958	4,657	8,494	1,518,121	1,109	383,141	1,158,311
	2019	1,576,740	6,351	9,491	1,573,600	1,138	381,279	1,291,493
	2020	*1,533,307	*9,318	*9,426	*1,533,199	*1,098	*380,951	*1,182,189
	2021	*1,610,082	*9,548	*9,574	*1,610,056	*1,144	*425,226	*1,206,619
Indonesia	2018	275,657	..	..	275,657	1,032	35,877	251,796
	2019	281,248	..	..	281,248	1,043	37,751	258,092
	2020	276,504	..	..	276,504	1,017	38,021	250,204
	2021	289,471	..	..	289,471	1,057	36,722	258,511
Iran (Islamic Rep. of)	2018	309,642	2,588	6,295	305,934	3,573	44,918	258,722
	2019	311,458	1,342	8,206	304,593	3,519	50,621	265,516
	2020	336,239	2,674	9,470	329,443	3,774	55,629	273,143
	2021	344,161	2,674	9,470	337,366	3,837	57,006	286,034
Iraq	2018	81,292	21,793	..	103,086	2,540	*65,863	39,592
	2019	87,370	34,396	..	121,766	2,930	*82,653	*42,087
	2020	85,433	38,814	..	124,247	2,920	*78,509	44,499
	2021	86,164	41,464	..	127,628	2,932	71,439	52,325
Israel	2018	68,894	..	5,863	63,031	7,454	5,643	57,481
	2019	72,351	..	6,311	66,040	7,672	6,083	59,889
	2020	72,285	..	6,243	66,042	7,541	6,433	60,049
	2021	73,796	..	6,523	67,273	7,559	6,659	60,706
Japan	2018	1,067,252	..	..	1,067,252	8,453	113,388	945,688
	2019	1,039,148	..	..	1,039,148	8,261	111,056	927,258
	2020	1,017,285	..	..	1,017,285	8,122	112,149	913,523
	2021	1,049,910	..	..	1,049,910	8,425	117,813	931,911
Jordan	2018	20,476	188	94	20,571	1,967	2,637	17,494
	2019	20,995	239	98	21,137	1,976	2,739	17,910
	2020	20,952	632	190	21,394	1,958	2,783	18,570
	2021	21,289	395	173	21,511	1,930	2,801	18,916

Table 34

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	2018	107,605	1,561	5,042	104,125	5,617	21,550	80,337
	2019	106,878	1,935	2,419	106,394	5,673	24,884	71,955
	2020	110,890	1,569	2,323	110,136	5,803	26,216	70,122
	2021	115,078	2,071	2,639	114,510	5,965	27,652	86,869
Korea, Dem.Ppl's.Rep.	2018	24,949	..	..	24,949	973	6,307	18,642
	2019	23,853	..	..	23,853	926	6,030	17,823
	2020	24,053	..	..	24,053	930	6,080	17,972
	2021	25,566	..	..	25,566	984	6,463	19,104
Korea, Republic of	2018	590,129	..	..	590,129	11,420	60,683	531,374
	2019	581,492	..	..	581,492	11,225	60,413	523,815
	2020	578,595	..	..	578,595	11,160	59,946	512,695
	2021	611,759	..	..	611,759	11,803	71,650	535,962
Kuwait	2018	74,157	202	535	73,824	17,100	31,065	42,759
	2019	75,203	451	580	75,074	16,904	31,468	43,605
	2020	74,956	451	135	75,272	17,262	31,718	43,554
	2021	80,757	325	338	80,744	18,998	33,564	47,180
Kyrgyzstan	2018	15,728	..	755	14,973	2,406	3,109	11,864
	2019	15,100	269	271	15,098	2,388	2,742	12,356
	2020	15,404	352	302	15,454	2,405	3,266	12,188
	2021	14,815	1,683	548	15,950	2,443	3,036	12,914
Lao People's Dem. Rep.	2018	36,762	302	27,216	9,848	1,386	*4,432	5,417
	2019	31,133	1,345	*22,460	10,018	1,389	*3,424	6,596
	2020	*39,967	*1,331	*28,833	*12,465	*1,703	*5,198	*7,268
	2021	*44,931	*1,358	*34,678	*11,611	*1,564	*4,545	*7,065
Lebanon	2018	23,150	11	..	23,161	3,892	*2,128	*21,033
	2019	23,819	90	..	23,909	4,135	*2,272	21,637
	2020	18,306	0	..	18,306	3,233	1,956	16,350
	2021	*13,631	0	..	*13,631	*2,437	*2,230	*11,401
Malaysia	2018	170,578	20	1,509	169,089	5,219	14,805	152,866
	2019	178,440	41	1,699	176,782	5,389	18,449	158,709
	2020	174,224	18	1,572	172,671	5,201	18,020	152,131
	2021	180,070	35	977	179,128	5,335	18,623	155,400
Maldives	2018	*773	..	..	*773	*1,577	*67	*706
	2019	*847	..	..	*847	*1,678	*75	*772
	2020	*853	..	..	*853	*1,658	*79	*774
	2021	*857	..	..	*857	*1,643	*84	*773
Mongolia	2018	6,535	1,666	27	8,174	2,584	1,725	6,450
	2019	6,900	1,723	24	8,599	2,660	1,752	6,847
	2020	6,970	1,685	42	8,613	2,615	1,796	6,817
	2021	7,825	1,823	24	9,624	2,875	1,906	7,755
Myanmar	2018	22,883	152	1,527	21,507	408	3,588	17,919
	2019	23,778	122	1,281	22,619	426	3,939	18,681
	2020	23,643	129	1,637	22,135	414	4,447	19,196
	2021	22,075	140	852	21,363	397	4,802	17,273
Nepal	2018	4,829	2,813	35	7,607	267	1,205	6,398
	2019	6,134	1,729	107	7,756	269	1,216	6,536
	2020	6,189	2,806	38	8,957	305	1,538	7,414
	2021	9,668	1,543	493	10,718	357	1,747	8,966
Oman	2018	37,718	..	..	37,718	8,198	4,171	33,547
	2019	38,337	..	..	38,337	8,329	4,541	33,796
	2020	38,173	..	..	38,173	8,402	5,055	33,117
	2021	41,122	..	..	41,122	9,097	5,461	35,661

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	2018	275,545	..	..	275,545	11,614	28,374	247,391
	2019	274,179	..	..	274,179	11,531	28,559	246,145
	2020	279,974	..	..	279,974	11,753	28,788	251,933
	2021	290,936	..	..	290,936	12,194	27,642	264,540
Pakistan	2018	136,461	297	..	136,758	622	22,555	109,459
	2019	134,818	499	..	135,317	606	18,642	113,546
	2020	144,049	514	..	144,563	636	36,876	107,687
	2021	144,435	498	..	144,933	626	*16,235	128,698
Philippines	2018	101,223	..	..	101,223	932	18,596	82,617
	2019	107,517	..	..	107,517	974	20,327	87,118
	2020	103,215	..	..	103,215	920	19,913	83,243
	2021	107,574	..	..	107,574	945	*18,949	88,625
Qatar	2018	47,913	..	..	47,913	17,318	6,045	41,868
	2019	49,873	..	..	49,873	17,766	6,212	43,660
	2020	49,259	..	..	49,259	17,845	6,208	43,089
	2021	51,641	..	..	51,641	19,210	6,237	45,404
Saudi Arabia	2018	359,257	351	385	359,223	10,258	58,014	299,177
	2019	367,816	337	33	368,120	10,275	65,363	288,570
	2020	367,498	464	832	367,130	10,199	67,636	289,304
	2021	379,045	308	352	379,001	10,542	*70,700	301,562
Singapore	2018	53,142	..	..	53,142	9,139	2,031	50,461
	2019	54,552	..	..	54,552	9,299	2,172	51,730
	2020	53,582	..	..	53,582	9,067	2,299	50,780
	2021	56,524	..	..	56,524	9,514	2,559	53,483
Sri Lanka	2018	15,985	..	..	15,985	741	2,019	14,119
	2019	16,630	..	..	16,630	768	1,876	14,738
	2020	15,801	..	..	15,801	728	2,254	14,450
	2021	16,716	..	..	16,716	768	2,415	*15,214
State of Palestine	2018	420	5,916	..	6,336	1,319	760	5,576
	2019	811	6,249	..	7,060	1,438	847	6,213
	2020	840	6,519	..	7,359	1,466	883	6,476
	2021	917	6,678	..	7,595	1,479	911	6,682
Syrian Arab Republic	2018	18,164	..	543	17,621	911	5,845	12,875
	2019	17,568	..	347	17,221	857	5,692	12,583
	2020	16,365	..	317	16,048	773	5,303	11,726
	2021	16,916	..	346	16,570	777	5,478	12,107
Tajikistan	2018	19,743	559	2,945	17,357	1,901	*3,172	13,890
	2019	20,676	281	3,175	17,782	1,904	2,642	14,167
	2020	19,734	379	1,870	18,243	1,912	2,860	14,965
	2021	20,624	883	3,307	18,200	1,867	4,371	13,777
Thailand	2018	182,288	26,669	1,093	207,865	2,922	15,728	188,048
	2019	190,681	25,547	2,882	213,346	2,992	16,218	193,176
	2020	188,870	29,551	2,611	215,810	3,019	16,241	196,706
	2021	*186,889	33,358	1,969	*218,278	*3,049	19,067	199,212
Timor-Leste	2018	453	..	..	453	359	*117	335
	2019	518	..	..	518	405	*134	384
	2020	506	..	..	506	389	*136	370
	2021	511	..	..	511	387	*131	380
Türkiye	2018	304,802	2,477	3,112	304,167	3,673	49,232	254,934
	2019	303,898	2,212	2,789	303,320	3,633	50,113	253,207
	2020	306,703	1,890	2,484	306,109	3,638	47,384	258,725
	2021	334,723	2,334	4,186	332,871	3,927	50,284	282,587

Table 34

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	2018	22,534	..	3,201	19,333	3,188	6,857	12,476
	2019	22,534	..	3,201	19,333	3,139	6,857	12,476
	2020	22,534	..	3,201	19,333	3,093	6,857	12,476
	2021	22,534	..	3,201	19,333	3,048	6,857	12,476
United Arab Emirates	2018	*136,014	488	517	*135,985	*14,878	*20,151	116,390
	2019	*138,454	245	257	*138,442	*15,029	*18,513	119,941
	2020	*137,310	206	235	*137,282	*14,782	*19,087	118,223
	2021	149,053	868	657	149,263	15,938	20,025	129,028
Uzbekistan	2018	62,408	2,233	2,627	62,014	1,911	3,303	53,514
	2019	63,021	3,379	2,067	64,334	1,951	4,891	54,175
	2020	66,516	5,207	2,687	69,037	2,059	12,232	51,951
	2021	71,414	6,232	2,644	75,002	2,201	14,623	55,632
Viet Nam	2018	213,199	1,722	733	214,189	2,257	21,488	192,701
	2019	*232,602	2,401	1,311	*233,692	*2,440	26,643	207,049
	2020	240,543	3,067	1,555	242,055	2,504	24,251	215,743
	2021	253,498	1,403	582	254,320	2,609	31,740	223,529
Yemen	2018	3,487	..	..	3,487	113	1,179	2,210
	2019	3,277	..	..	3,277	104	1,088	2,220
	2020	2,939	..	..	2,939	91	950	2,212
	2021	2,915	..	..	2,915	88	941	2,248
Europe	**2018**	**4,902,887**	**461,131**	**463,057**	**4,900,961**	**6,555**	**919,494**	**3,968,524**
	2019	**4,847,750**	**463,845**	**464,976**	**4,846,619**	**6,475**	**900,555**	**3,930,484**
	2020	**4,696,299**	**472,009**	**473,142**	**4,695,166**	**6,272**	**869,455**	**3,809,049**
	2021	**4,900,459**	**506,717**	**509,960**	**4,897,216**	**6,551**	**880,962**	**3,992,424**
Albania	2018	8,552	850	1,764	7,639	2,655	1,315	6,085
	2019	5,206	3,177	770	7,612	2,649	1,310	6,179
	2020	5,313	3,239	963	7,589	2,647	1,298	6,312
	2021	8,963	2,252	2,800	8,415	2,948	1,421	6,666
Andorra	2018	145	439	0	585	7,792	73	492
	2019	118	465	0	583	7,630	71	490
	2020	153	375	0	529	6,805	60	447
	2021	109	426	0	535	6,769	65	448
Austria	2018	68,618	28,076	19,129	77,565	8,774	14,115	63,445
	2019	74,234	26,047	22,918	77,363	8,712	13,818	63,512
	2020	72,556	24,522	22,327	74,752	8,392	13,182	61,532
	2021	70,752	26,436	18,893	78,295	8,775	13,806	64,443
Belarus	2018	38,986	3,257	4,248	37,995	3,919	7,291	30,704
	2019	40,465	3,059	5,398	38,126	3,941	7,196	30,930
	2020	38,548	4,277	4,777	38,048	3,949	7,192	30,856
	2021	41,240	4,300	4,600	40,940	4,274	7,932	33,008
Belgium	2018	75,040	21,636	4,308	92,367	8,068	9,828	82,758
	2019	93,646	12,734	14,589	91,791	7,975	10,313	81,705
	2020	89,455	13,722	14,055	89,122	7,708	9,880	78,883
	2021	100,465	15,194	23,070	92,589	7,974	10,383	81,362
Bosnia and Herzegovina	2018	19,160	3,092	7,698	14,554	4,280	3,098	11,456
	2019	17,493	2,825	6,565	13,753	4,092	2,760	10,993
	2020	16,874	3,266	7,317	12,823	3,864	2,887	9,936
	2021	18,536	3,259	8,014	13,781	4,213	2,952	10,830
Bulgaria	2018	46,838	2,223	10,030	39,030	5,484	9,051	29,923
	2019	44,277	3,045	8,855	38,466	5,454	8,853	30,215
	2020	40,754	3,707	7,115	37,346	5,351	8,062	28,610
	2021	47,568	1,857	10,635	38,790	5,633	8,209	30,970

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	2018	13,632	12,693	7,306	19,019	4,571	2,844	16,175
	2019	12,760	11,401	5,268	18,893	4,575	2,738	16,155
	2020	13,385	10,491	5,852	18,025	4,400	2,809	15,215
	2021	15,210	11,505	7,544	19,171	4,722	2,676	16,495
Czechia	2018	88,038	11,573	25,481	74,131	7,037	14,526	58,103
	2019	87,056	11,026	24,123	73,959	7,019	14,340	58,416
	2020	81,568	13,368	23,521	71,415	6,781	13,709	57,100
	2021	85,082	15,153	26,228	74,007	7,041	13,072	59,983
Denmark	2018	30,370	15,634	10,409	35,594	6,172	4,330	30,917
	2019	29,517	15,982	10,171	35,328	6,095	4,122	30,750
	2020	28,729	18,594	11,711	35,611	6,113	4,303	30,390
	2021	33,049	20,120	15,251	37,918	6,477	4,505	32,091
Estonia	2018	12,364	3,053	4,950	10,467	7,917	2,669	7,491
	2019	7,616	4,861	2,704	9,773	7,364	1,985	7,317
	2020	6,078	7,367	3,723	9,722	7,313	1,497	7,180
	2021	7,204	7,332	4,703	9,833	7,401	1,436	7,884
Faeroe Islands	2018	352	..	..	352	6,908	*31	321
	2019	386	..	..	386	7,470	*36	350
	2020	407	..	..	407	7,761	36	371
	2021	424	..	..	424	8,013	36	388
Finland	2018	70,263	22,548	2,612	90,199	16,354	7,006	82,769
	2019	68,650	23,938	3,896	88,692	16,063	6,989	81,310
	2020	69,268	21,774	6,670	84,372	15,259	7,062	76,898
	2021	72,121	24,492	6,724	89,889	16,237	7,197	82,094
France	2018	581,819	13,512	76,479	518,853	7,792	78,679	437,102
	2019	570,949	15,632	73,299	513,282	7,692	77,105	431,705
	2020	532,386	19,536	64,575	487,347	7,292	73,610	411,359
	2021	555,283	24,334	69,227	510,391	7,628	77,073	433,072
Germany	2018	640,468	31,727	80,463	591,732	7,138	82,338	509,394
	2019	606,917	40,126	72,793	574,250	6,906	77,735	496,515
	2020	575,462	47,853	66,882	556,433	6,678	74,205	482,227
	2021	588,343	51,731	70,306	569,768	6,831	75,145	494,623
Gibraltar	2018	215	..	..	215	6,600	11	205
	2019	220	..	..	220	6,725	11	209
	2020	215	..	..	215	6,561	11	204
	2021	233	..	..	233	7,137	12	221
Greece	2018	53,263	8,550	2,272	59,541	5,599	10,071	49,470
	2019	48,626	11,067	1,123	58,570	5,539	8,373	50,197
	2020	48,252	9,831	967	57,116	5,433	9,587	47,529
	2021	54,715	7,581	3,897	58,399	5,591	8,666	49,242
Guernsey	2018	54	319	..	373	6,019	25	348
	2019	165	204	..	369	5,909	22	348
	2020	23	347	..	370	5,889	*32	338
	2021	27	337	..	364	5,770	*26	338
Hungary	2018	32,067	18,613	4,265	46,415	4,748	6,702	39,418
	2019	34,291	19,853	7,269	46,875	4,797	6,607	40,222
	2020	34,930	19,176	7,499	46,607	4,780	6,300	40,046
	2021	36,120	19,967	7,213	48,874	5,034	6,113	42,298
Iceland	2018	19,830	..	..	19,830	56,184	1,128	18,487
	2019	19,489	..	..	19,489	54,019	1,075	18,227
	2020	19,127	..	..	19,127	52,165	1,069	17,869
	2021	19,614	..	..	19,614	52,963	1,112	18,345

Table 34

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	2018	31,139	1,622	1,649	31,111	6,435	3,649	27,877
	2019	30,962	2,180	1,535	31,606	6,456	3,574	28,424
	2020	32,276	1,761	1,913	32,124	6,495	3,744	28,640
	2021	31,872	2,451	863	33,460	6,710	3,877	29,553
Isle of Man	2018	493	*51	131	413	4,927	*50	362
	2019	581	*23	192	412	4,909	*46	366
	2020	552	*24	168	408	4,849	62	352
	2021	360	*151	103	408	4,847	*62	342
Italy	2018	289,708	47,170	3,271	333,607	5,568	40,526	293,081
	2019	293,853	43,975	5,834	331,994	5,555	40,061	291,933
	2020	280,531	39,790	7,590	312,731	5,253	37,531	275,200
	2021	289,070	46,572	3,782	331,859	5,599	39,660	292,199
Jersey	2018	45	637	..	682	6,468	48	633
	2019	44	630	..	675	6,302	40	632
	2020	43	610	..	653	6,030	39	613
	2021	33	641	..	675	6,154	44	633
Kosovo	2018	5,915	825	677	6,064	3,546	1,660	4,398
	2019	6,348	928	905	6,372	3,777	1,643	4,714
	2020	6,713	966	1,283	6,395	3,828	1,497	4,894
	2021	6,892	3,336	2,649	7,579	4,560	1,670	5,802
Latvia	2018	6,725	5,174	4,265	7,634	3,944	970	6,662
	2019	6,438	4,611	3,493	7,556	3,943	918	6,637
	2020	5,725	4,173	2,548	7,350	3,875	826	6,524
	2021	5,846	4,666	2,894	7,619	4,066	879	6,739
Liechtenstein	2018	89	321	..	410	10,728	0	410
	2019	103	307	..	410	10,654	0	410
	2020	104	299	..	402	10,380	0	402
	2021	107	311	..	418	10,694	0	418
Lithuania	2018	3,511	12,848	3,215	13,144	4,570	2,743	10,398
	2019	3,972	13,268	3,924	13,315	4,674	2,771	10,541
	2020	5,518	12,013	4,105	13,426	4,761	3,069	10,355
	2021	5,079	12,479	3,435	14,122	5,068	2,965	11,154
Luxembourg	2018	2,200	7,553	1,392	8,361	13,754	1,902	6,459
	2019	1,908	6,818	939	7,787	12,561	1,390	6,397
	2020	2,234	6,543	1,079	7,699	12,213	1,579	6,120
	2021	2,211	6,758	1,037	7,932	12,408	1,540	6,393
Malta	2018	1,962	631	11	2,583	5,255	196	2,388
	2019	2,060	657	20	2,696	5,353	222	2,474
	2020	2,143	420	4	2,559	4,965	196	2,363
	2021	2,215	547	36	2,726	5,176	147	2,580
Montenegro	2018	3,679	780	976	3,483	5,516	637	2,847
	2019	3,423	1,196	943	3,676	5,831	622	3,054
	2020	3,386	5,943	5,864	3,465	5,508	628	2,837
	2021	3,777	5,318	5,489	3,606	5,743	628	2,978
Netherlands (Kingd. of the)	2018	114,264	26,755	18,785	122,234	7,071	14,578	107,783
	2019	121,355	20,403	19,548	122,211	7,038	14,273	107,622
	2020	123,287	19,773	22,433	120,627	6,919	13,087	106,333
	2021	122,132	20,885	20,632	122,385	6,993	13,715	107,172
North Macedonia	2018	5,870	2,411	583	7,698	3,642	1,457	6,241
	2019	5,870	2,411	583	7,698	3,641	1,457	6,241
	2020	5,347	2,965	639	7,674	3,635	1,449	6,225
	2021	5,532	2,837	359	8,009	3,808	1,445	6,564

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	2018	147,097	8,340	18,489	136,948	25,779	18,920	117,081
	2019	134,907	12,353	12,309	134,951	25,233	17,829	116,267
	2020	155,249	4,496	24,968	134,777	25,052	17,536	116,312
	2021	157,966	8,235	25,819	140,382	25,982	19,384	119,991
Poland	2018	170,039	13,816	8,121	175,734	4,562	35,265	140,469
	2019	163,989	17,868	7,245	174,611	4,536	34,200	140,412
	2020	158,043	20,624	7,357	171,310	4,458	33,988	137,322
	2021	179,631	15,100	14,212	180,519	4,712	36,830	143,688
Portugal	2018	59,636	5,668	8,325	56,979	5,537	9,020	47,959
	2019	53,154	8,099	4,700	56,553	5,496	8,674	47,880
	2020	53,078	7,553	6,097	54,535	5,296	8,214	46,254
	2021	50,980	9,544	4,791	55,733	5,416	8,338	47,321
Republic of Moldova	2018	954	3,500	..	4,454	1,418	613	3,841
	2019	941	3,501	..	4,442	1,429	629	3,813
	2020	983	3,418	..	4,401	1,427	594	3,807
	2021	1,131	3,607	..	4,738	1,548	610	4,128
Romania	2018	64,876	3,697	6,241	62,332	3,179	16,532	45,566
	2019	59,623	5,493	3,975	61,141	3,132	15,545	45,573
	2020	55,935	8,252	5,459	58,727	3,021	14,668	44,024
	2021	59,470	8,697	6,499	61,669	3,191	15,041	46,048
Russian Federation	2018	1,115,093	5,177	17,779	1,102,491	7,569	339,002	759,582
	2019	1,121,492	1,618	20,049	1,103,061	7,569	344,218	755,636
	2020	1,089,668	3,608	12,274	1,081,002	7,424	328,500	749,614
	2021	1,159,416	1,564	22,903	1,138,077	7,843	326,998	807,621
Serbia	2018	37,426	6,400	6,284	37,542	5,050	9,494	28,049
	2019	37,600	5,417	5,341	37,676	5,091	9,682	27,994
	2020	37,956	5,070	5,675	37,351	5,076	9,471	27,881
	2021	38,236	6,984	6,333	38,886	5,329	9,687	29,200
Slovakia	2018	26,971	12,428	8,746	30,653	5,628	4,684	25,935
	2019	28,434	13,538	11,838	30,134	5,525	4,907	25,192
	2020	28,838	13,289	12,970	29,157	5,343	5,323	23,813
	2021	30,016	13,884	13,110	30,790	5,652	5,220	25,549
Slovenia	2018	16,327	8,930	9,432	15,825	7,514	2,113	13,712
	2019	16,100	9,021	9,340	15,781	7,469	2,102	13,679
	2020	17,191	7,120	9,123	15,188	7,172	2,236	12,951
	2021	15,877	8,387	8,658	15,607	7,364	2,148	13,459
Spain	2018	274,452	24,018	12,916	285,554	6,103	46,724	238,465
	2019	273,257	18,721	11,859	280,119	5,943	44,912	234,529
	2020	263,373	17,928	14,649	266,653	5,630	46,550	219,655
	2021	274,312	17,411	16,559	275,164	5,795	47,200	227,880
Sweden	2018	163,400	12,202	29,425	146,177	14,384	17,327	127,562
	2019	168,439	9,070	35,231	142,278	13,857	16,482	124,558
	2020	163,833	11,827	36,824	138,836	13,390	13,878	123,426
	2021	171,798	8,341	33,909	146,230	13,970	16,634	128,264
Switzerland	2018	69,110	31,020	32,607	67,523	7,930	9,879	57,642
	2019	73,478	29,505	35,765	67,218	7,838	10,024	57,194
	2020	71,654	26,988	32,548	66,094	7,651	10,380	55,714
	2021	66,042	31,532	29,119	68,455	7,876	10,339	58,117
Ukraine	2018	159,833	32	6,099	153,766	3,460	35,113	118,653
	2019	154,141	2,238	6,283	150,096	3,395	32,919	116,689
	2020	148,408	2,720	5,139	145,989	3,325	31,655	113,510
	2021	158,083	1,458	3,497	156,044	3,585	29,114	117,794

Table 34

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	2018	331,997	21,332	2,225	351,105	5,285	51,262	299,407
	2019	323,199	24,556	3,385	344,369	5,157	45,956	295,879
	2020	310,748	22,391	4,481	328,658	4,901	45,967	280,607
	2021	307,317	28,743	4,166	331,894	4,933	44,952	286,039
Latin America & Carib.	**2018**	**1,674,775**	**52,989**	**51,062**	**1,676,702**	**2,619**	**303,441**	**1,364,256**
	2019	**1,672,888**	**44,921**	**43,385**	**1,674,425**	**2,593**	**302,890**	**1,349,272**
	2020	**1,625,440**	**50,112**	**42,674**	**1,632,877**	**2,509**	**282,470**	**1,374,005**
	2021	**1,751,339**	**37,674**	**34,701**	**1,754,313**	**2,678**	**301,953**	**1,419,748**
Anguilla	2018	83	..	..	83	5,435	8	*74
	2019	100	..	..	100	6,478	11	*88
	2020	90	..	..	90	5,803	10	*80
	2021	98	..	..	98	6,223	*12	*86
Antigua and Barbuda	2018	362	..	..	362	3,951	*62	*300
	2019	358	..	..	358	3,891	54	*305
	2020	347	..	..	347	3,742	46	307
	2021	351	..	..	351	3,763	*47	*304
Argentina	2018	152,224	10,030	280	161,974	3,647	27,990	128,744
	2019	145,990	10,946	261	156,675	3,501	24,995	125,619
	2020	144,924	7,802	3,089	149,637	3,323	25,399	124,522
	2021	153,779	6,348	3,850	156,277	3,452	27,121	129,064
Aruba	2018	*931	..	..	*931	*8,783	*166	776
	2019	*973	..	..	*973	*9,142	*158	809
	2020	*912	..	..	*912	*8,552	*155	743
	2021	*955	..	..	*955	*8,969	*155	783
Bahamas	2018	1,925	..	..	1,925	4,790	*262	1,663
	2019	1,895	..	..	1,895	4,684	*280	1,614
	2020	1,796	..	..	1,796	4,418	273	1,523
	2021	1,859	..	..	1,859	4,557	*284	1,575
Barbados	2018	*1,038	..	..	*1,038	*3,711	95	943
	2019	*1,053	..	..	*1,053	*3,757	109	944
	2020	*982	..	..	*982	*3,500	89	894
	2021	*992	..	..	*992	*3,527	88	904
Belize	2018	416	235	..	651	1,704	79	586
	2019	305	384	..	689	1,770	79	620
	2020	434	270	..	704	1,783	199	515
	2021	404	380	..	784	1,960	174	547
Bolivia (Plur. State of)	2018	9,855	..	..	9,855	849	1,269	8,450
	2019	10,172	..	..	10,172	864	1,284	8,680
	2020	9,977	..	..	9,977	836	1,341	8,365
	2021	10,834	..	..	10,834	897	1,454	9,011
Bonaire, St Eustatius, Saba	2018	137	..	..	137	5,467	*31	*105
	2019	145	..	..	145	5,667	*34	*110
	2020	145	..	..	145	5,548	*34	*111
	2021	156	..	..	156	5,849	*35	*121
Brazil	2018	601,396	34,980	1	636,375	3,028	129,435	506,939
	2019	626,329	25,156	199	651,286	3,075	138,411	512,874
	2020	621,198	25,113	395	645,916	3,030	137,369	508,548
	2021	656,109	23,147	44	679,212	3,169	146,627	532,585
British Virgin Islands	2018	160	..	..	160	5,258	24	135
	2019	199	..	..	199	6,508	35	164
	2020	*203	..	..	*203	*6,564	*36	*167
	2021	*207	..	..	*207	*6,635	*37	*170

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
Cayman Islands	2018	658	..	..	658	10,137	9	649
	2019	696	..	..	696	10,519	6	689
	2020	668	..	..	668	9,919	3	665
	2021	678	..	..	678	9,957	2	677
Chile	2018	82,339	0	..	82,339	4,403	6,625	73,034
	2019	84,558	..	..	84,558	4,441	6,775	74,097
	2020	83,994	..	..	83,994	4,352	6,277	74,514
	2021	88,019	..	..	88,019	4,515	6,775	76,320
Colombia	2018	78,426	122	16	78,532	1,594	16,687	61,531
	2019	80,415	312	0	80,727	1,609	14,645	67,488
	2020	79,550	1,302	251	80,600	1,583	14,935	65,907
	2021	84,428	479	364	84,543	1,641	17,917	70,180
Costa Rica	2018	11,528	572	813	11,288	2,239	1,435	9,892
	2019	11,508	340	323	11,525	2,267	1,301	10,190
	2020	11,730	118	624	11,224	2,191	1,318	9,905
	2021	12,737	6	1,009	11,734	2,277	1,285	10,363
Cuba	2018	20,837	..	..	20,837	1,839	5,248	15,589
	2019	20,706	449	..	21,155	1,869	5,372	15,691
	2020	19,071	1,402	..	20,473	1,812	5,425	14,972
	2021	17,966	1,385	..	19,350	1,719	5,483	13,739
Curaçao	2018	866	..	..	866	4,688	150	716
	2019	*880	..	..	*880	*4,557	115	765
	2020	*844	..	..	*844	*4,460	114	730
	2021	846	..	..	846	4,445	110	736
Dominica	2018	110	..	..	110	1,557	10	*101
	2019	138	..	..	138	1,936	*13	*126
	2020	142	..	..	142	1,974	*13	*129
	2021	146	..	..	146	2,021	*12	*134
Dominican Republic	2018	19,651	..	..	19,651	1,825	3,242	16,409
	2019	19,857	..	..	19,857	1,825	3,276	18,196
	2020	19,293	..	..	19,293	1,754	5,408	15,559
	2021	21,314	..	..	21,314	1,917	2,968	18,764
Ecuador	2018	29,244	106	256	29,094	1,710	4,197	24,908
	2019	32,284	6	1,827	30,463	1,756	4,659	25,816
	2020	31,248	251	1,341	30,158	1,715	4,737	25,418
	2021	32,214	364	524	32,054	1,801	4,915	26,976
El Salvador	2018	5,359	1,824	65	7,118	1,134	1,079	6,221
	2019	6,070	1,450	158	7,362	1,172	1,194	6,343
	2020	6,350	774	131	6,992	1,111	1,121	5,990
	2021	6,475	1,317	34	7,758	1,229	1,415	6,488
Falkland Is. (Malvinas)	2018	18	..	..	18	4,844	*1	*16
	2019	18	..	..	18	4,842	*1	*17
	2020	18	..	..	18	4,878	*1	*17
	2021	19	..	..	19	4,957	*1	*17
Grenada	2018	235	..	..	235	1,925	23	212
	2019	245	..	..	245	1,999	22	223
	2020	227	..	..	227	1,837	23	204
	2021	229	..	..	229	1,839	22	207
Guatemala	2018	13,568	825	2,500	11,893	706	1,678	10,220
	2019	*14,083	1,141	2,190	*13,034	*762	2,373	10,660
	2020	12,835	1,085	1,156	12,764	735	2,350	10,381
	2021	14,420	1,141	1,116	14,446	820	2,653	11,760

Table 34

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
Guyana	2018	1,136	..	..	1,136	1,446	268	868
	2019	1,135	..	..	1,135	1,420	269	869
	2020	1,136	..	..	1,136	1,425	255	881
	2021	1,138	..	..	1,138	1,415	250	883
Haiti	2018	1,048	..	..	1,048	95	651	428
	2019	1,064	..	..	1,064	95	661	435
	2020	1,029	..	..	1,029	91	639	420
	2021	1,033	..	..	1,033	90	642	399
Honduras	2018	9,629	372	8	9,993	1,020	3,005	6,988
	2019	10,586	260	6	10,839	1,088	3,201	7,639
	2020	10,059	292	0	10,351	1,023	3,586	6,766
	2021	10,957	204	3	11,159	1,086	3,401	7,757
Jamaica	2018	4,402	..	..	4,402	1,566	1,190	3,299
	2019	4,465	..	..	4,465	1,587	1,189	3,409
	2020	4,939	..	..	4,939	1,751	1,896	3,873
	2021	4,705	..	..	4,705	1,664	1,619	3,646
Mexico	2018	357,592	3,673	2,426	358,839	2,894	57,759	299,696
	2019	344,839	3,907	3,084	345,662	2,763	50,618	280,076
	2020	317,680	9,965	5,955	321,690	2,553	46,213	299,959
	2021	379,696	1,737	2,693	378,740	2,989	52,962	295,041
Montserrat	2018	14	..	..	14	3,232	2	11
	2019	14	..	..	14	3,132	1	12
	2020	14	..	..	14	3,127	1	12
	2021	16	..	..	16	3,534	1	*12
Nicaragua	2018	4,636	201	0	4,837	736	1,381	3,594
	2019	4,576	434	0	5,010	752	1,568	3,769
	2020	3,791	1,071	0	4,862	720	1,464	3,653
	2021	4,213	1,005	0	5,219	762	1,582	3,879
Panama	2018	11,465	13	326	11,153	2,678	1,832	9,339
	2019	13,050	77	427	12,700	3,001	1,622	11,065
	2020	12,949	117	567	12,499	2,911	1,573	11,064
	2021	14,197	63	502	13,758	3,162	1,696	12,186
Paraguay	2018	59,212	..	42,205	17,007	2,639	4,503	12,504
	2019	49,448	..	31,748	17,700	2,711	4,860	12,840
	2020	46,373	..	28,005	18,368	2,775	4,649	13,719
	2021	40,576	..	21,719	18,857	2,813	5,151	13,706
Peru	2018	54,982	21	..	55,004	1,708	6,711	48,292
	2019	57,038	60	..	57,099	1,739	7,267	49,831
	2020	52,803	37	..	52,841	1,587	7,194	45,647
	2021	56,836	43	..	56,879	1,687	7,297	49,490
Puerto Rico	2018	17,453	..	..	17,453	5,258	1,187	16,375
	2019	18,886	..	..	18,886	5,735	*1,803	16,077
	2020	18,774	..	..	18,774	5,739	*1,759	16,035
	2021	19,184	..	..	19,184	5,892	*1,846	16,269
Sint Maarten (Dutch part)	2018	*291	..	..	*291	*6,898	*9	*270
	2019	*296	..	..	*296	*6,880	*9	*274
	2020	265	..	..	265	6,063	*8	*257
	2021	*286	..	..	*286	*6,487	*9	*277
St. Kitts-Nevis	2018	*230	..	..	*230	*4,809	*43	*187
	2019	*233	..	..	*233	*4,875	*43	*189
	2020	*221	..	..	*221	*4,633	*44	*177
	2021	*219	..	..	*219	*4,593	*44	*175

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
St. Lucia	2018	399	..	..	399	2,244	38	362
	2019	408	..	..	408	2,284	39	369
	2020	372	..	..	372	2,073	35	336
	2021	390	..	..	390	2,172	37	353
St. Vincent-Grenadines	2018	151	..	..	151	1,432	15	135
	2019	154	..	..	154	1,468	15	138
	2020	152	..	..	152	1,455	14	140
	2021	145	..	..	145	1,389	15	138
Suriname	2018	1,792	..	..	1,792	3,018	445	1,347
	2019	1,868	..	..	1,868	3,112	439	1,430
	2020	1,730	..	..	1,730	2,849	376	1,354
	2021	1,594	..	..	1,594	2,600	285	1,309
Trinidad and Tobago	2018	9,225	..	..	9,225	6,131	762	8,463
	2019	9,188	..	..	9,188	6,045	759	8,429
	2020	9,225	..	..	9,225	6,076	759	8,463
	2021	9,262	..	..	9,262	6,071	759	8,497
Turks and Caicos Islands	2018	*258	..	..	*258	*6,211	*22	237
	2019	*261	..	..	*261	*6,062	*20	*241
	2020	*256	..	..	*256	*5,792	*20	*237
	2021	*267	..	..	*267	*5,911	*23	*244
United States Virgin Is.	2018	625	..	..	625	6,163	*58	*567
	2019	637	..	..	637	6,316	*57	*579
	2020	666	..	..	666	6,635	*60	*606
	2021	710	..	..	710	7,090	*66	*644
Uruguay	2018	14,623	14	1,195	13,442	3,922	2,105	11,453
	2019	16,090	0	3,011	13,079	3,815	1,876	11,321
	2020	13,557	515	1,148	12,924	3,769	1,685	11,347
	2021	15,953	55	2,844	13,165	3,842	1,752	11,529
Venezuela (Bolivar. Rep.)	2018	94,248	0	970	93,278	3,127	21,650	71,627
	2019	79,676	0	152	79,524	2,745	21,373	58,152
	2020	82,471	0	14	82,458	2,894	3,565	78,894
	2021	84,730	0	0	84,730	3,005	2,926	81,805
Northern America	**2018**	**5,115,745**	**71,456**	**75,205**	**5,111,995**	**13,842**	**669,022**	**4,429,997**
	2019	**5,045,733**	**72,385**	**80,419**	**5,037,699**	**13,543**	**676,170**	**4,359,728**
	2020	**4,912,709**	**71,251**	**81,287**	**4,902,673**	**13,110**	**602,380**	**4,296,843**
	2021	**5,018,865**	**66,183**	**74,248**	**5,010,799**	**13,352**	**648,932**	**4,363,765**
Bermuda	2018	644	..	..	644	10,137	77	568
	2019	613	..	..	613	9,608	*57	554
	2020	*590	..	..	*590	*9,214	*72	518
	2021	*595	..	..	*595	*9,263	*72	523
Canada	2018	659,061	13,195	61,401	610,855	16,494	69,896	528,163
	2019	652,776	13,333	60,411	605,698	16,142	75,231	528,841
	2020	651,458	9,802	67,152	594,108	15,680	72,711	518,135
	2021	642,974	13,016	60,393	595,597	15,610	73,050	524,632
Greenland	2018	550	..	..	550	9,829	*26	343
	2019	531	..	..	531	9,492	*26	331
	2020	566	..	..	566	10,110	*27	351
	2021	569	..	..	569	10,121	*29	353
St. Pierre-Miquelon	2018	51	..	..	51	8,557	3	*47
	2019	52	..	..	52	8,798	3	*49
	2020	51	..	..	51	8,670	3	*49
	2021	51	..	..	51	8,619	2	*49

Table 34

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 States	2018	4,455,439	58,261	13,804	4,499,895	13,548	599,019	3,900,876
	2019	4,391,761	59,052	20,008	4,430,805	13,253	600,853	3,829,952
	2020	4,260,044	61,449	14,135	4,307,358	12,822	529,568	3,777,790
	2021	4,374,676	53,167	13,855	4,413,988	13,098	575,779	3,838,209
Oceania	**2018**	**318,311**	**..**	**..**	**318,311**	**7,483**	**51,946**	**266,013**
	2019	**322,011**	**..**	**..**	**322,011**	**7,441**	**53,769**	**267,964**
	2020	**321,870**	**..**	**..**	**321,870**	**7,327**	**54,435**	**266,643**
	2021	**322,540**	**..**	**..**	**322,540**	**7,250**	**55,071**	**266,668**
American Samoa	2018	*168	..	..	*168	*3,470	*20	*149
	2019	*169	..	..	*169	*3,580	*24	*146
	2020	*171	..	..	*171	*3,697	*23	*147
	2021	*172	..	..	*172	*3,822	*24	*148
Australia	2018	260,999	..	..	260,999	10,449	45,884	215,114
	2019	264,025	..	..	264,025	10,412	47,507	216,518
	2020	265,178	..	..	265,178	10,330	48,521	216,657
	2021	265,554	..	..	265,554	10,245	49,178	216,376
Cook Islands	2018	42	..	..	42	2,434	*2	*40
	2019	39	..	..	39	2,286	*2	*37
	2020	34	..	..	34	2,000	*2	*32
	2021	34	..	..	34	1,980	*2	*32
Fiji	2018	1,045	..	..	1,045	1,138	*120	925
	2019	1,074	..	..	1,074	1,169	*124	950
	2020	989	..	..	989	1,074	*115	874
	2021	949	..	..	949	1,026	*120	829
French Polynesia	2018	680	..	..	680	2,283	39	634
	2019	695	..	..	695	2,320	38	652
	2020	668	..	..	668	2,212	39	623
	2021	672	..	..	672	2,209	39	633
Guam	2018	1,715	..	..	1,715	10,166	148	1,567
	2019	1,724	..	..	1,724	10,222	155	1,568
	2020	1,683	..	..	1,683	9,944	160	1,523
	2021	*1,712	..	..	*1,712	*10,038	157	1,555
Kiribati	2018	35	..	..	35	288	*6	*29
	2019	38	..	..	38	302	*6	*32
	2020	*37	..	..	*37	*295	*4	*33
	2021	*38	..	..	*38	*293	*6	*32
Marshall Islands	2018	*85	..	..	*85	*1,848	*22	*64
	2019	82	..	..	82	1,835	*22	*61
	2020	*82	..	..	*82	*1,891	*21	*61
	2021	*82	..	..	*82	*1,952	*21	*61
Micronesia (Fed. States of)	2018	*70	..	..	*70	*631	*23	*47
	2019	*70	..	..	*70	*630	*23	*47
	2020	*70	..	..	*70	*623	*23	*47
	2021	*70	..	..	*70	*617	*23	*47
Nauru	2018	36	..	..	36	3,034	8	28
	2019	36	..	..	36	2,978	6	30
	2020	38	..	..	38	3,092	*7	30
	2021	*44	..	..	*44	*3,541	*8	*36
New Caledonia	2018	3,486	..	..	3,486	12,236	65	3,421
	2019	3,334	..	..	3,334	11,682	61	3,273
	2020	3,233	..	..	3,233	11,288	67	3,166
	2021	2,910	..	..	2,910	10,111	66	2,844

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	2018	44,695	..	..	44,695	9,237	5,078	39,273
	2019	45,147	..	..	45,147	9,104	5,282	39,595
	2020	44,530	..	..	44,530	8,799	4,967	38,778
	2021	44,610	..	..	44,610	8,696	4,917	38,892
Niue	2018	*4	..	..	*4	*2,050	0	*3
	2019	*4	..	..	*4	*2,020	*1	*3
	2020	*4	..	..	*4	*1,997	0	*3
	2021	*4	..	..	*4	*2,003	0	*3
Northern Mariana Islands	2018	*390	..	..	*390	*7,753	*86	*304
	2019	*392	..	..	*392	*7,862	*86	*306
	2020	*293	..	..	*293	*5,909	*63	*230
	2021	*305	..	..	*305	*6,164	*66	*239
Palau	2018	*96	..	..	*96	*5,357	*10	*86
	2019	97	..	..	97	5,386	*8	*89
	2020	*98	..	..	*98	*5,453	*10	*88
	2021	98	..	..	98	5,437	*10	*88
Papua New Guinea	2018	*4,333	..	..	*4,333	*464	384	3,949
	2019	*4,625	..	..	*4,625	*485	372	4,252
	2020	4,300	..	..	4,300	441	361	3,940
	2021	*4,824	..	..	*4,824	*485	*380	*4,444
Samoa	2018	154	..	..	154	732	15	138
	2019	169	..	..	169	799	18	152
	2020	172	..	..	172	803	16	157
	2021	171	..	..	171	780	18	152
Solomon Islands	2018	104	..	..	104	157	*16	*88
	2019	107	..	..	107	159	*18	*88
	2020	106	..	..	106	154	*18	*88
	2021	106	..	..	106	150	*19	*87
Tonga	2018	66	..	..	66	625	8	*58
	2019	71	..	..	71	673	8	*63
	2020	73	..	..	73	695	8	*65
	2021	75	..	..	75	706	8	*67
Tuvalu	2018	9	..	..	9	808	2	*7
	2019	9	..	..	9	821	2	*7
	2020	9	..	..	9	797	2	*7
	2021	9	..	..	9	787	2	*7
Vanuatu	2018	81	..	..	81	274	9	72
	2019	84	..	..	84	276	9	75
	2020	78	..	..	78	251	8	70
	2021	79	..	..	79	247	6	73
Wallis and Futuna Is.	2018	*20	..	..	*20	*1,693	*1	*19
	2019	*21	..	..	*21	*1,771	*1	*20
	2020	*23	..	..	*23	*1,931	*1	*22
	2021	*24	..	..	*24	*2,024	*1	*22

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 87: Heat production by region, 1990-2021

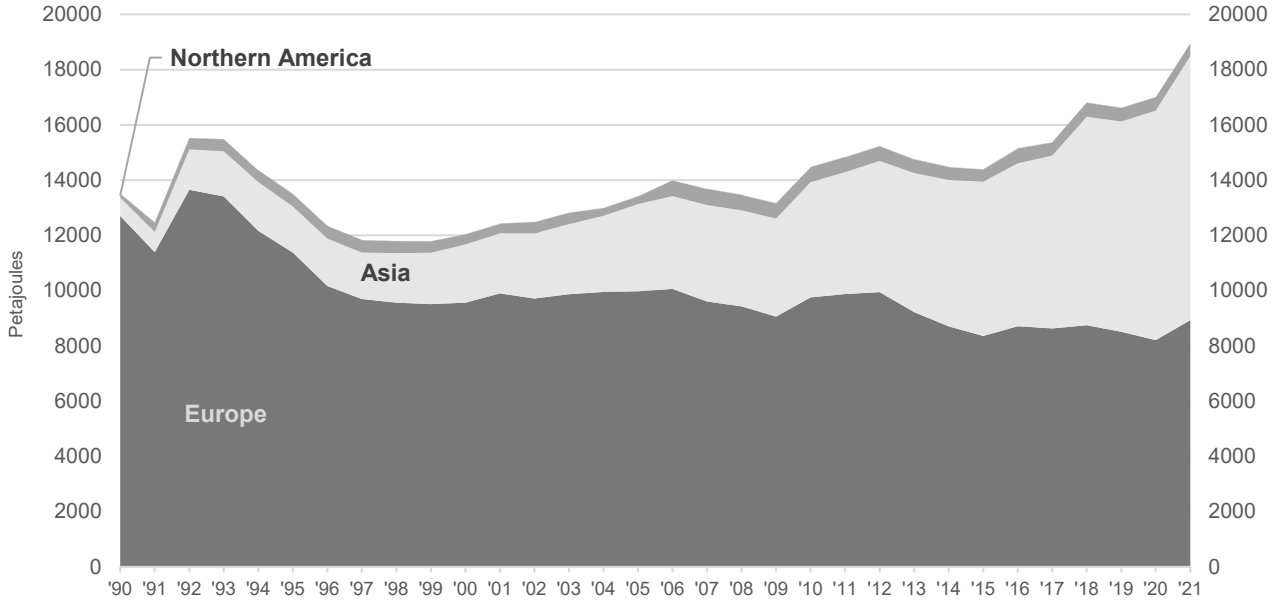


Figure 88: Major heat producing countries, 2021

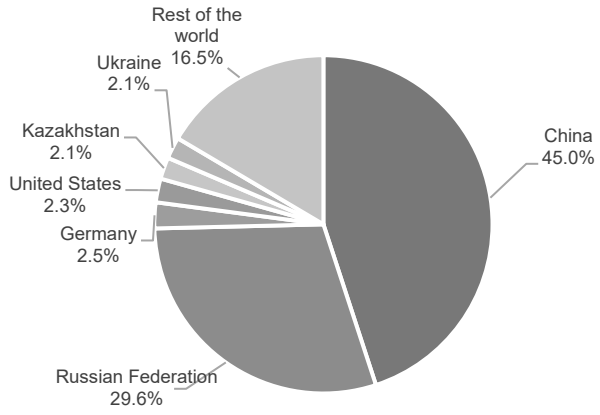


Figure 89: World heat production by type, 2021

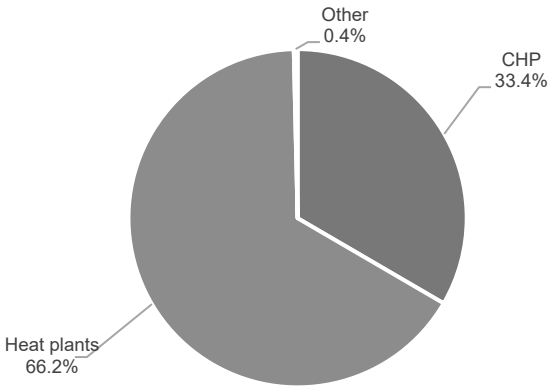


Table 35

Production of heat - by type

Terajoules

Country or area	Year	Combust-ible fuels	Geo-thermal	Solar thermal	Nuclear	Chemical sources	Heat pumps and electric boilers	Other sources	Direct use geothermal	Direct use solar thermal
World	**2018**	**16,125,964**	**50,911**	**8,081**	**25,956**	**70,384**	**63,030**	**459,552**	**173,533**	**331,904**
	2019	**15,928,326**	**51,386**	**8,423**	**25,647**	**76,534**	**67,492**	**455,496**	**146,403**	**342,030**
	2020	**16,341,674**	**49,412**	**8,958**	**25,012**	**49,752**	**68,740**	**455,650**	**144,962**	**354,439**
	2021	**18,257,947**	**50,224**	**8,759**	**26,137**	**53,029**	**71,719**	**498,656**	**147,451**	**406,606**
Africa	**2018**	**..**	**..**	**..**	**..**	**5,094**	**..**	**..**	**..**	**7,921**
	2019	**..**	**..**	**..**	**..**	**4,880**	**..**	**..**	**..**	**8,092**
	2020	**..**	**..**	**..**	**..**	**3,629**	**..**	**..**	**..**	**7,865**
	2021	**..**	**..**	**..**	**..**	**3,651**	**..**	**..**	**..**	**11,238**
Botswana	2018	..	..	..	..	..	..	..	..	46
	2019	..	..	..	..	..	..	..	..	54
	2020	..	..	..	..	..	..	..	..	55
	2021	..	..	..	..	..	..	..	..	63
Morocco	2018	..	..	..	..	..	..	..	..	..
	2019	..	..	..	..	..	..	..	..	..
	2020	..	..	..	..	..	..	..	..	..
	2021	..	..	..	..	..	..	..	..	3,035
Namibia	2018	..	..	..	..	..	..	..	..	152
	2019	..	..	..	..	..	..	..	..	166
	2020	..	..	..	..	..	..	..	..	177
	2021	..	..	..	..	..	..	..	..	177
Senegal	2018	..	..	..	..	969	..	..	..	..
	2019	..	..	..	..	630	..	..	..	..
	2020	..	..	..	..	469	..	..	..	..
	2021	..	..	..	..	392	..	..	..	..
South Africa	2018	..	..	..	..	..	..	..	..	5,280
	2019	..	..	..	..	..	..	..	..	5,296
	2020	..	..	..	..	..	..	..	..	4,960
	2021	..	..	..	..	..	..	..	..	5,204
Tunisia	2018	..	..	..	..	4,125	..	..	..	2,443
	2019	..	..	..	..	4,250	..	..	..	2,576
	2020	..	..	..	..	3,160	..	..	..	2,673
	2021	..	..	..	..	3,259	..	..	..	2,759
Asia	**2018**	**7,503,496**	**..**	**5,778**	**..**	**2,172**	**17,610**	**18,362**	**96,578**	**84,412**
	2019	**7,563,877**	**..**	**5,925**	**..**	**2,170**	**22,564**	**20,213**	**97,266**	**81,709**
	2020	**8,249,688**	**..**	**6,078**	**..**	**2,164**	**21,498**	**24,731**	**97,854**	**84,168**
	2021	**9,521,888**	**..**	**6,252**	**..**	**2,160**	**18,439**	**24,499**	**98,670**	**84,360**
Armenia	2018	24	..	..	..	..	..	..	..	216
	2019	27	..	..	..	..	..	..	..	358
	2020	38	..	..	..	..	..	..	..	600
	2021	11	..	..	..	..	..	..	..	651
Azerbaijan	2018	12,236	..	..	..	..	3	..	..	..
	2019	14,013	..	..	..	..	3	..	..	..
	2020	13,661	..	..	..	..	2	..	..	..
	2021	14,678	..	..	..	..	8	..	..	..
China	2018	6,505,618	..	..	..	..	..	..	..	..
	2019	6,617,368	..	..	..	..	..	..	..	..
	2020	7,246,757	..	..	..	..	..	..	..	..
	2021	8,523,782	..	..	..	..	..	..	..	..
Cyprus	2018	54	..	..	..	..	..	..	..	3,015
	2019	51	..	..	..	..	..	..	..	3,062
	2020	37	..	..	..	..	..	..	..	3,114
	2021	37	..	..	..	..	..	..	..	3,168

Production of heat - by type

Terajoules

Country or area	Year	Combust-ible fuels	Geo-thermal	Solar thermal	Nuclear	Chemical sources	Heat pumps and electric boilers	Other sources	Direct use geothermal	Direct use solar thermal
Georgia	2018	..	..	..	..	..	..	..	670	129
	2019	..	..	..	..	..	..	..	680	130
	2020	..	..	..	..	..	..	..	588	131
	2021	..	..	..	..	..	..	..	629	141
Israel	2018	..	..	..	..	..	..	..	..	15,100
	2019	..	..	..	..	..	..	..	..	15,100
	2020	..	..	..	..	..	..	..	..	16,379
	2021	..	..	..	..	..	..	..	..	17,090
Japan	2018	13,187	..	..	..	..	7,118	2,462	5,367	8,447
	2019	12,462	..	..	..	..	7,586	2,590	5,367	7,736
	2020	11,673	..	..	..	..	6,508	3,081	5,367	7,063
	2021	11,712	..	..	..	..	6,469	3,081	5,367	6,460
Jordan	2018	..	..	..	..	..	..	..	..	8,961
	2019	..	..	..	..	..	..	..	..	9,098
	2020	..	..	..	..	..	..	..	..	9,131
	2021	..	..	..	..	..	..	..	..	9,224
Kazakhstan	2018	389,432	..	..	..	..	..	..	..	..
	2019	347,364	..	..	..	..	..	..	..	..
	2020	381,860	..	..	..	..	..	..	..	..
	2021	393,611	..	..	..	..	..	..	..	..
Korea, Republic of	2018	250,495	..	..	..	2,172	..	..	8,730	1,880
	2019	236,567	..	..	..	2,170	..	..	9,409	1,848
	2020	236,073	..	..	..	2,164	..	..	10,089	1,812
	2021	235,441	..	..	..	2,160	..	..	10,854	1,781
Kyrgyzstan	2018	13,798	..	..	..	..	..	..	..	..
	2019	12,424	..	..	..	..	..	..	..	..
	2020	13,332	..	..	..	..	..	..	..	..
	2021	13,637	..	..	..	..	..	..	..	..
Lebanon	2018	..	..	..	..	..	..	..	..	*1,060
	2019	..	..	..	..	..	..	..	..	1,060
	2020	..	..	..	..	..	..	..	..	*1,060
	2021	..	..	..	..	..	..	..	..	1,060
Mongolia	2018	52,355	..	..	..	..	..	..	..	..
	2019	55,589	..	..	..	..	..	..	..	..
	2020	59,124	..	..	..	..	..	..	..	..
	2021	59,383	..	..	..	..	..	..	..	..
Nepal	2018	..	..	..	..	..	..	..	..	4,080
	2019	..	..	..	..	..	..	..	..	4,081
	2020	..	..	..	..	..	..	..	..	4,760
	2021	..	..	..	..	..	..	..	..	4,962
Other Asia	2018	99,291	..	..	..	..	..	..	..	4,383
	2019	91,765	..	..	..	..	..	..	..	4,231
	2020	93,319	..	..	..	..	..	..	..	4,372
	2021	99,348	..	..	..	..	..	..	..	3,352
State of Palestine	2018	..	..	5,778	..	..	..	..	..	..
	2019	..	..	5,925	..	..	..	..	..	..
	2020	..	..	6,078	..	..	..	..	..	..
	2021	..	..	6,252	..	..	..	..	..	..
Tajikistan	2018	3,499	..	..	..	..	..	..	..	..
	2019	3,519	..	..	..	..	..	..	..	..
	2020	3,612	..	..	..	..	..	..	..	..
	2021	3,695	..	..	..	..	..	..	..	..

Table 35

Production of heat - by type

Terajoules

Country or area	Year	Combust-ible fuels	Geo-thermal	Solar thermal	Nuclear	Chemical sources	Heat pumps and electric boilers	Other sources	Direct use geothermal	Direct use solar thermal
Thailand	2018	..	..	..	..	..	..	..	..	423
	2019	..	..	..	..	..	..	..	..	423
	2020	..	..	..	..	..	..	..	..	444
	2021	..	..	..	..	..	..	..	..	456
Türkiye	2018	41,613	..	..	..	..	..	15,900	81,810	36,718
	2019	42,991	..	..	..	..	..	17,623	81,810	34,583
	2020	45,601	..	..	..	..	..	21,651	81,810	35,295
	2021	43,364	..	..	..	..	..	21,418	81,819	36,006
Turkmenistan	2018	10,877	..	..	..	..	..	..	..	..
	2019	10,877	..	..	..	..	..	..	..	..
	2020	10,877	..	..	..	..	..	..	..	..
	2021	10,876	..	..	..	..	..	..	..	..
Uzbekistan	2018	*111,018	..	..	..	..	*10,489	..	..	..
	2019	*118,859	..	..	..	..	*14,975	..	..	..
	2020	133,726	..	..	..	..	*14,988	..	..	..
	2021	112,313	..	..	..	..	*11,962	..	..	..
Viet Nam	2018	..	..	..	..	..	..	..	..	..
	2019	..	..	..	..	..	..	..	..	..
	2020	..	..	..	..	..	..	..	..	7
	2021	..	..	..	..	..	..	..	..	7
Europe	**2018**	**8,118,998**	**50,911**	**2,304**	**25,956**	**63,117**	**44,844**	**439,923**	**25,003**	**99,947**
	2019	**7,879,113**	**51,386**	**2,498**	**25,647**	**69,485**	**44,352**	**434,116**	**26,999**	**101,110**
	2020	**7,611,499**	**49,412**	**2,880**	**25,012**	**43,960**	**46,642**	**429,902**	**26,179**	**105,039**
	2021	**8,281,940**	**50,224**	**2,507**	**26,137**	**45,115**	**52,680**	**473,050**	**27,330**	**105,443**
Albania	2018	122	..	..	..	..	..	..	..	564
	2019	151	..	..	..	..	..	..	..	558
	2020	230	..	..	..	..	..	..	..	563
	2021	247	..	..	..	..	..	..	..	569
Andorra	2018	21	..	..	..	..	..	..	..	..
	2019	37	..	..	..	..	..	..	..	..
	2020	43	..	..	..	..	..	..	..	..
	2021	72	..	..	..	..	..	..	..	..
Austria	2018	83,290	573	93	..	93	30	..	473	7,472
	2019	82,904	470	91	..	91	384	..	476	7,393
	2020	83,277	515	91	..	71	435	..	493	7,518
	2021	90,707	552	97	..	84	656	..	429	7,279
Belarus	2018	260,497	..	..	..	..	..	..	..	..
	2019	247,488	..	..	..	..	..	..	..	..
	2020	243,739	..	..	..	..	..	..	..	..
	2021	261,579	..	..	..	..	..	..	..	..
Belgium	2018	24,092	53	..	..	10,288	..	..	..	1,096
	2019	20,590	56	..	..	9,901	..	..	..	1,089
	2020	20,063	59	..	..	9,970	..	..	..	1,129
	2021	20,647	67	..	..	9,679	..	..	..	1,089
Bosnia and Herzegovina	2018	5,759	..	..	..	..	..	..	..	..
	2019	5,571	..	..	..	..	..	..	..	..
	2020	5,850	..	..	..	..	..	..	..	..
	2021	6,011	..	..	..	..	..	..	..	..
Bulgaria	2018	35,433	..	..	718	1,818	..	..	1,450	1,044
	2019	35,920	..	..	660	2,217	..	..	1,470	1,092
	2020	36,055	..	..	548	2,426	..	..	1,495	1,147
	2021	38,059	..	..	653	2,294	..	..	1,512	1,222

Production of heat - by type

Terajoules

Country or area	Year	Combust-ible fuels	Geo-thermal	Solar thermal	Nuclear	Chemical sources	Heat pumps and electric boilers	Other sources	Direct use geothermal	Direct use solar thermal
Croatia	2018	12,698	..	..	..	..	..	..	320	584
	2019	13,182	..	..	..	..	..	..	301	647
	2020	13,851	..	..	..	..	..	..	303	684
	2021	15,553	..	..	..	..	..	..	208	715
Czechia	2018	115,419	..	..	864	706	109	1,135	..	753
	2019	113,717	..	..	853	669	125	1,027	..	767
	2020	110,303	..	..	787	595	116	1,160	..	789
	2021	118,859	..	..	863	581	154	1,039	..	810
Denmark	2018	127,276	55	2,157	..	..	1,490	4,074	..	603
	2019	123,496	34	2,347	..	..	2,019	4,375	..	611
	2020	116,633	23	2,662	..	..	4,271	4,684	..	611
	2021	127,291	27	2,278	..	..	6,743	4,672	..	611
Estonia	2018	24,889	..	..	..	..	..	..	..	..
	2019	21,958	..	..	..	..	..	..	..	..
	2020	20,933	..	..	..	..	..	..	..	..
	2021	22,727	..	..	..	..	..	..	..	..
Finland	2018	170,696	..	..	..	4,446	4,344	10,077	..	83
	2019	165,855	..	..	..	4,567	4,283	10,570	..	91
	2020	149,472	..	..	..	4,241	4,250	13,069	..	100
	2021	168,354	..	..	..	4,144	5,865	15,197	..	110
France	2018	157,398	5,986	..	..	..	963	3,278	1,681	7,583
	2019	164,122	6,481	..	..	..	1,294	4,439	1,681	7,843
	2020	162,296	6,751	..	..	..	1,340	3,868	1,681	8,145
	2021	176,932	7,075	..	..	..	1,660	5,270	1,681	8,454
Germany	2018	460,597	1,333	8	..	..	..	6,133	3,558	31,942
	2019	449,842	1,732	13	..	..	..	6,341	3,390	30,525
	2020	416,246	1,940	41	..	..	10	7,297	3,426	32,016
	2021	460,588	1,928	49	..	..	4	6,950	3,962	30,366
Greece	2018	2,167	..	..	..	..	..	..	371	11,607
	2019	2,203	..	..	..	..	..	..	432	11,968
	2020	2,199	..	..	..	..	..	..	235	12,272
	2021	1,971	..	..	..	..	..	..	181	12,724
Hungary	2018	43,148	2,570	..	620	..	..	2,641	2,761	527
	2019	41,801	2,864	..	585	..	81	3,069	2,832	560
	2020	42,508	2,772	..	504	..	165	2,626	2,609	627
	2021	45,789	2,940	..	388	..	45	3,000	2,873	650
Iceland	2018	18	39,040	..	..	..	924	..	2,081	..
	2019	16	38,442	..	..	..	941	..	2,103	..
	2020	18	36,026	..	..	..	942	..	2,440	..
	2021	15	36,145	..	..	..	830	..	2,946	..
Ireland	2018	..	..	..	..	..	..	..	..	567
	2019	..	..	..	..	..	..	..	..	573
	2020	..	..	..	..	..	..	..	..	589
	2021	..	..	..	..	..	..	..	..	587
Italy	2018	228,673	878	6	..	..	..	..	5,364	9,145
	2019	230,526	870	6	..	..	..	..	5,477	9,544
	2020	228,030	872	8	..	..	..	..	5,014	9,887
	2021	222,664	1,072	10	..	..	..	..	4,815	10,323
Kosovo	2018	45	..	..	..	..	787	..	..	15
	2019	28	..	..	..	..	830	..	..	16
	2020	16	..	..	..	..	961	..	..	16
	2021	17	..	..	..	..	1,059	..	..	17

Table 35

Production of heat - by type

Terajoules

Country or area	Year	Combust-ible fuels	Geo-thermal	Solar thermal	Nuclear	Chemical sources	Heat pumps and electric boilers	Other sources	Direct use geothermal	Direct use solar thermal
Latvia	2018	29,682	..	..	..	..	6	..	..	..
	2019	28,604	..	3	..	..	5	..	..	..
	2020	27,006	..	40	..	..	4	..	..	..
	2021	31,198	..	36	..	..	4	..	..	..
Liechtenstein	2018	417	..	37	..	..	..	..	..	..
	2019	432	..	36	..	..	..	..	..	..
	2020	463	..	36	..	..	..	..	..	..
	2021	483	..	34	..	..	..	..	..	..
Lithuania	2018	34,623	..	..	..	11,272	9	..	..	..
	2019	31,735	..	..	..	11,034	9	..	..	..
	2020	29,752	..	..	..	8,160	7	..	..	..
	2021	35,903	..	..	..	8,663	10	..	..	..
Luxembourg	2018	3,115	..	0	..	..	..	..	..	97
	2019	4,033	..	0	..	..	..	..	..	101
	2020	5,646	..	0	..	..	..	..	..	107
	2021	6,176	..	0	..	..	..	..	..	113
Malta	2018	0	..	..	..	..	..	..	..	211
	2019	1	..	..	..	..	..	..	..	212
	2020	..	..	..	..	..	..	..	..	214
	2021	..	..	..	..	..	..	..	..	218
Netherlands (Kingd. of the)	2018	101,825	..	..	..	8,047	..	1,115	3,731	1,156
	2019	104,847	..	..	..	9,033	..	..	5,564	1,180
	2020	93,458	..	..	..	12,586	..	..	6,185	1,176
	2021	98,593	..	..	..	12,418	..	..	6,327	1,164
North Macedonia	2018	2,051	..	..	..	..	..	..	190	..
	2019	2,057	..	..	..	..	..	..	187	..
	2020	2,533	..	..	..	..	..	..	185	..
	2021	2,678	..	..	..	..	..	..	179	121
Norway	2018	17,827	..	..	..	3,648	5,023	713	..	..
	2019	18,418	..	..	..	3,581	4,824	763	..	..
	2020	16,409	..	..	..	3,154	5,023	756	..	..
	2021	20,363	..	..	..	4,178	5,461	997	..	..
Poland	2018	294,097	..	..	..	457	5	115	991	2,383
	2019	286,234	..	..	..	528	3	286	1,050	3,009
	2020	285,225	..	..	..	456	5	189	1,073	3,355
	2021	307,313	..	..	..	774	5	280	1,189	3,566
Portugal	2018	20,180	..	..	..	..	..	..	73	3,953
	2019	20,927	..	..	..	..	..	..	72	4,033
	2020	20,546	..	..	..	..	..	..	55	4,216
	2021	16,673	..	..	..	..	..	..	57	4,416
Republic of Moldova	2018	10,658	..	..	..	..	..	..	..	..
	2019	9,670	..	..	..	..	..	..	..	..
	2020	9,365	..	..	..	..	..	..	..	..
	2021	10,518	..	..	..	..	..	..	..	..
Romania	2018	71,225	246	..	..	..	..	..	1,066	31
	2019	61,203	243	..	..	..	..	..	1,045	30
	2020	58,834	255	..	..	..	..	..	245	32
	2021	60,983	261	..	..	..	..	..	378	49
Russian Federation	2018	5,064,879	0	..	14,011	..	14,646	388,539	..	..
	2019	4,914,229	..	..	14,246	..	13,209	380,746	..	..
	2020	4,714,085	..	..	14,097	..	10,800	374,896	..	..
	2021	5,179,115	..	..	14,595	..	12,935	411,892	..	..

Production of heat - by type

Terajoules

Country or area	Year	Combust-ible fuels	Geo-thermal	Solar thermal	Nuclear	Chemical sources	Heat pumps and electric boilers	Other sources	Direct use geothermal	Direct use solar thermal
Serbia	2018	35,536	..	..	..	..	..	..	214	..
	2019	32,945	..	..	..	..	..	..	219	..
	2020	35,957	..	..	..	..	..	..	212	..
	2021	37,209	..	..	..	..	..	..	63	..
Slovakia	2018	29,113	159	2	1,917	..	107	17	58	297
	2019	29,079	175	2	1,882	..	119	14	58	316
	2020	28,617	181	2	1,848	..	78	16	30	334
	2021	30,233	136	2	2,009	..	71	18	30	358
Slovenia	2018	9,296	19	..	..	..	..	..	560	443
	2019	9,124	19	..	..	..	..	..	582	443
	2020	9,266	19	..	..	..	..	..	439	430
	2021	10,064	21	..	..	..	..	..	452	426
Spain	2018	..	..	..	..	..	..	..	8	12,563
	2019	..	..	..	..	..	..	..	8	13,170
	2020	..	..	..	..	..	..	..	8	13,716
	2021	..	..	..	..	..	..	..	8	14,116
Sweden	2018	173,343	..	..	..	..	16,366	20,707	..	457
	2019	170,111	..	..	..	..	16,175	21,301	..	446
	2020	154,890	..	..	..	..	18,191	20,354	..	436
	2021	184,605	..	..	..	..	17,133	22,749	..	425
Switzerland	2018	20,340	..	..	1,350	..	13	..	18	2,565
	2019	22,743	..	..	1,380	..	..	..	18	2,642
	2020	22,559	..	..	1,420	..	..	..	17	2,659
	2021	24,300	..	..	1,520	..	..	..	6	2,662
Ukraine	2018	381,170	..	..	6,476	22,342	22	1,379	..	..
	2019	346,992	..	..	6,041	27,865	52	1,185	..	..
	2020	378,863	..	..	5,809	2,300	45	986	..	..
	2021	380,841	..	..	6,109	2,300	45	986	..	..
United Kingdom	2018	67,381	..	..	..	..	..	..	34	2,208
	2019	66,323	..	..	..	..	..	..	34	2,250
	2020	66,263	..	..	..	..	..	..	34	2,268
	2021	66,611	..	..	..	..	..	..	34	2,283
Latin America & Carib.	**2018**	**..**	**..**	**..**	**..**	**..**	**..**	**..**	**102**	**16,433**
	2019	**..**	**..**	**..**	**..**	**..**	**..**	**..**	**102**	**18,197**
	2020	**..**	**..**	**..**	**..**	**..**	**..**	**..**	**102**	**20,714**
	2021	**..**	**..**	**..**	**..**	**2,103**	**..**	**..**	**102**	**60,602**
Brazil	2018	..	..	..	..	..	..	..	..	..
	2019	..	..	..	..	..	..	..	..	..
	2020	..	..	..	..	..	..	..	..	..
	2021	..	..	..	..	2,103	..	..	..	38,939
Chile	2018	..	..	..	..	..	..	..	..	2,465
	2019	..	..	..	..	..	..	..	..	2,919
	2020	..	..	..	..	..	..	..	..	2,919
	2021	..	..	..	..	..	..	..	..	3,051
Ecuador	2018	..	..	..	..	..	..	..	*102	..
	2019	..	..	..	..	..	..	..	*102	..
	2020	..	..	..	..	..	..	..	*102	..
	2021	..	..	..	..	..	..	..	*102	..
Mexico	2018	..	..	..	..	..	..	..	..	12,531
	2019	..	..	..	..	..	..	..	..	13,796
	2020	..	..	..	..	..	..	..	..	16,280
	2021	..	..	..	..	..	..	..	..	17,083

Table 35

Production of heat - by type

Terajoules

Country or area	Year	Combust-ible fuels	Geo-thermal	Solar thermal	Nuclear	Chemical sources	Heat pumps and electric boilers	Other sources	Direct use geothermal	Direct use solar thermal
Peru	2018	..	..	..	..	..	..	..	..	1,436
	2019	..	..	..	..	..	..	..	..	1,482
	2020	..	..	..	..	..	..	..	..	1,515
	2021	..	..	..	..	..	..	..	..	1,529
Northern America	**2018**	**503,470**	**..**	**..**	**..**	**..**	**576**	**..**	**43,934**	**105,911**
	2019	**485,336**	**..**	**..**	**..**	**..**	**576**	**..**	**14,096**	**114,732**
	2020	**480,488**	**..**	**..**	**..**	**..**	**600**	**..**	**13,057**	**117,616**
	2021	**454,120**	**..**	**..**	**..**	**..**	**600**	**..**	**13,964**	**124,696**
Canada	2018	25,523	..	..	..	..	..	..	..	1,810
	2019	22,258	..	..	..	..	..	..	..	1,810
	2020	22,456	..	..	..	..	..	..	..	1,782
	2021	23,103	..	..	..	..	..	..	..	1,782
Greenland	2018	*625	..	..	..	..	*576	..	..	..
	2019	*625	..	..	..	..	*576	..	..	..
	2020	*700	..	..	..	..	*600	..	..	..
	2021	*700	..	..	..	..	*600	..	..	..
St. Pierre-Miquelon	2018	..	..	..	..	..	..	..	..	..
	2019	32	..	..	..	..	..	..	..	..
	2020	36	..	..	..	..	..	..	..	..
	2021	42	..	..	..	..	..	..	..	..
United States	2018	477,322	..	..	..	..	..	..	43,934	104,101
	2019	462,421	..	..	..	..	..	..	14,096	112,922
	2020	457,296	..	..	..	..	..	..	13,057	115,834
	2021	430,274	..	..	..	..	..	..	13,964	122,914
Oceania	**2018**	**..**	**..**	**..**	**..**	**..**	**..**	**1,267**	**7,916**	**17,279**
	2019	**..**	**..**	**..**	**..**	**..**	**..**	**1,167**	**7,940**	**18,190**
	2020	**..**	**..**	**..**	**..**	**..**	**..**	**1,016**	**7,770**	**19,038**
	2021	**..**	**..**	**..**	**..**	**..**	**..**	**1,107**	**7,386**	**20,266**
Australia	2018	..	..	..	..	..	..	..	..	16,693
	2019	..	..	..	..	..	..	..	..	17,603
	2020	..	..	..	..	..	..	..	..	18,449
	2021	..	..	..	..	..	..	..	..	19,675
French Polynesia	2018	..	..	..	..	..	..	..	..	78
	2019	..	..	..	..	..	..	..	..	80
	2020	..	..	..	..	..	..	..	..	81
	2021	..	..	..	..	..	..	..	..	83
New Caledonia	2018	..	..	..	..	..	..	..	..	141
	2019	..	..	..	..	..	..	..	..	141
	2020	..	..	..	..	..	..	..	..	141
	2021	..	..	..	..	..	..	..	..	141
New Zealand	2018	..	..	..	..	..	..	1,267	7,916	364
	2019	..	..	..	..	..	..	1,167	7,940	364
	2020	..	..	..	..	..	..	1,016	7,770	364
	2021	..	..	..	..	..	..	1,107	7,386	364
Samoa	2018	..	..	..	..	..	..	..	..	*3
	2019	..	..	..	..	..	..	..	..	*3
	2020	..	..	..	..	..	..	..	..	*3
	2021	..	..	..	..	..	..	..	..	*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 2020: Resources, Production and Demand*, OECD Publishing, available at https://www.oecd-nea.org/upload/docs/application/pdf/2020-12/7555_uranium_-_resources_production_and_demand_2020__web.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 36

Production of uranium (uranium content)

Metric tons

Country or area	2018	2019	2020	2021
World	**53,503**	**54,747**	**47,740**	**47,863**
Africa	**8,781**	**8,804**	**8,655**	**8,193**
Malawi	0	0	0	0
Namibia	5,525	5,476	5,413	5,753
Niger	2,910	2,982	2,992	2,248
South Africa	346	346	250	192
Northern America	**7,583**	**6,996**	**3,891**	**4,701**
Canada	7,001	6,938	3,885	4,693
United States	582	58	6	8
Latin America & Carib.	**0**	**0**	**20**	**29**
Brazil	0	0	20	29
Asia	**26,533**	**28,617**	**25,378**	**27,655**
China	1,885	1,885	1,885	1,600
India	423	308	400	600
Iran (Islamic Rep. of)	71	71	71	71
Kazakhstan	21,705	22,808	19,477	21,819
Pakistan	45	45	45	45
Uzbekistan	2,404	3,500	3,500	3,520
Europe	**4,089**	**3,717**	**3,593**	**3,093**
Czechia	0	0	0	0
France	0	2	0	0
Germany	0	0	0	0
Hungary	5	3	*3	*3
Romania	0	0	0	0
Russian Federation	2,904	2,911	2,846	2,635
Ukraine	1,180	801	744	455
Oceania	**6,517**	**6,613**	**6,203**	**4,192**
Australia	6,517	6,613	6,203	4,192

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/.

These sources are complemented with data from BP, Statistical Review of World Energy 2022, available at https://www.bp.com/en/global/corporate/energy-economics/statistical-review-of-world-energy.html.

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 37

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)		
Estimated additional amount in place	Natural gas (billions cubic metres)	Crude oil and NGL	Oil shale	Bituminous sands	Reasonably assured resources	Inferred Resources	Hydropower (Gross theoretical capability) (GWh/Year)
..	*50	..	..	..	..	..	394,000
..	*1	*26	..	5	..	..	40,000
..	4,504	1,537	..	..	19,500	..	12,000
..	*308	1,050	..	74	..	..	150,000
50	332	342	57	..	8,600	11,000	354,000
..	*18	..	44	..	..	..	22,000
..	3,471	263	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	1,733	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	27,060	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	3,542	47,600	120	120,000	56,600	6,083,000
..	135	294	..	5	..	..	1,000,000
..	115	407	..	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	57	..	..	..	..	120
..	..	..	..	..	..	..	200
..	..	..	..	..	..	..	50,000
..	*11	191	..	7	..	..	169,000
..	1,846	413	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 37

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 (Kingd. of the)	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)		
Estimated additional amount in place	Natural gas (billions cubic metres)	Crude oil and NGL	Oil shale	Bituminous sands	Reasonably assured resources	Inferred Resources	Hydropower (Gross theoretical capability) (GWh/Year)
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	603	..	..	77,000	27,900	2,638,000
..	2,839	337	..	67	8,400	2,200	2,147,000
..	34,020	21,676	..	..	700	1,800	448,000
..	3,694	19,571	..	..	..	..	225,000
140	*10	..	..	..	..	..	1,000
1,000	181	*2	550	0	..	..	0
2,500	45	80	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	358	..	..	..	..	230,000
..	..	..	..	..	..	..	12,000
..	*28	*3	..	..	..	..	..
..	..	..	..	..	..	..	150
..	324	864	..	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	4,978	..	91	..	..	43,000
..	..	..	..	..	..	..	9,000
7,015	1,857	1,007	..	..	..	..	600,000
..	688	729	..	..	..	..	..
..	543	*50	..	..	..	..	475,000

Table 37

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	..	..	..	..	..	..	..	..
Türkiye	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)		
Estimated additional amount in place	Natural gas (billions cubic metres)	Crude oil and NGL	Oil shale	Bituminous sands	Reasonably assured resources	Inferred Resources	Hydropower (Gross theoretical capability) (GWh/Year)
..	..	..	..	..	..	..	26,000
..	141	*24	..	..	..	..	175,000
200	..	..	..	..	..	..	111,000
..	414	88	..	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	2,646	..	..	..	..	..
..	..	..	..	..	..	..	2,000
10	110	80	..	1	3,100	3,600	70,000
168,320	32,271	14,768	35,470	4,518	216,500	432,000	2,295,000
2,000	*57	..	..	..	..	..	2,000
..	..	..	..	..	..	..	140
..	8,325	40,869	..	..	..	..	..
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	341	..	..	..	..	11,000
..	*6	*2	..	..	..	..	527,000
..	220	30	916	..	..	..	18,000
..	..	*59	..	..	..	..	..
..	..	..	..	..	..	..	4,000
..	326	33	..	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	333	501	12	..	..	35,000
..	*1,317	..	..	..	30,100	15,600	39,000
..	10,441	8,203	536,931	3	207,400	..	2,040,000
46	..	..	..	..	..	..	32,000
..	1,086	81	1,200	..	59,400	31,900	88,000
..	5,617	48,035	..	9,212	..	..	731,000
..	617	595	..	..	1,000	5,400	300,000
..	266	393	..	..	..	..	..
..	..	..	..	..	9,900	5,700	53,000
..	..	..	..	..	1,400	..	44,000