



2019

Electricity Profiles



Department of Economic and Social Affairs
Statistics Division

2019

Electricity Profiles



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Department of Economic and Social Affairs

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Statistics compiled as of December 2021

INTRODUCTION

The *Electricity Profiles 2019* provides detailed information on production, trade and consumption of electricity, on net installed capacity and thermal power plant inputs and efficiency for 224 countries and areas on an internationally comparable basis, for the years 2014-2019. It is published by the United Nations Statistics Division with the aim of providing an overall picture of the electricity sector of such countries and areas.

This is the eighth issue of *Electricity Profiles* as a stand-alone publication, whereas until the 2011 edition it was part of the series *Energy Balances and Electricity Profiles*. The series was split in two and in addition to the *Electricity Profiles* a sister publication, the *Energy Balances*, is released.

This split followed the incorporation of the standards brought about by the *International Recommendations for Energy Statistics*¹ (IRES). IRES, in its draft form, was endorsed in 2011 by the United Nations Statistical Commission. Previously, energy statistics published by the Statistics Division followed the format described in detail in the technical report entitled *Concepts and Methods in Energy Statistics, with Special Reference to Energy Accounts and Balances*² and also discussed in the publication *Energy Statistics: A Manual for Developing Countries*.³

Electricity production and electric installed capacity are disaggregated by source, as coming from Combustible fuels, Hydro, Nuclear and Other sources; and by type of producer, whether from main activity producers or autoproducers. The latter is given implicitly as the difference between Total production/capacity and Main activity production/capacity.

Thermal power plant inputs are listed by energy product, together with the total output, which are used together to calculate the overall efficiency of electricity production from combustible fuels (displayed at the bottom). Up to ten main products (by input contribution in the latest year available) are displayed and then listed alphabetically, with the remaining ones, if any, aggregated in the category Others.

More detailed disaggregation of electricity capacity and production is published in the *Energy Statistics Yearbook*, where wind and solar are identified separately as electricity sources rather than in the category Other.

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

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

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

¹ Available at unstats.un.org/unsd/energystats/methodology/ires/

² Statistical Papers, Series F, No. 29 (United Nations publication, Sales No.E.82.XVII.13).

³ Statistical Papers, Series F, No. 56 (United Nations publication, Sales No.E.91.XVII.10).

⁴ For details, see unstats.un.org/unsd/energystats/pubs/epfiles/

CONCEPTS AND DEFINITIONS

ELECTRICITY PROFILES

The electricity profiles intend to provide an overall picture of the electricity sector in countries and areas on a comparable basis. As such, a simplified approach is taken, where for production and capacity the three main electricity sources (or production processes) are singled out; namely, combustible fuels, hydro and nuclear; while the remaining electricity production processes (mostly renewable) are aggregated in the category Other. Detailed information on each source for the same countries and areas is available from the United Nations Energy Statistics Database.⁵

Each electricity profile is divided into three blocks, which are listed below and described in detail next:

- The top block on electricity production, trade and consumption;
- The middle block on net installed capacity; and
- The bottom block on combustible fuel input, output and efficiency.

Top block – Electricity production, trade and consumption

Electricity is defined in energy statistics as 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** (or electricity generation) in the electricity profiles 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.

The different types of technology/processes for the generation of electricity are defined as follows.

Electricity from **combustible fuels** refers to the production of electricity from the combustion of fuels which are capable of igniting or burning, i.e. reacting with oxygen to produce a significant rise in temperature.

Hydro electricity refers to electricity produced from devices driven by fresh, flowing or falling water.

Nuclear electricity refers to electricity generated by nuclear plants.

Other electricity includes all other processes, which are described below.

- Solar Electricity refers to electricity produced from solar photovoltaics, i.e. by the direct conversion of solar radiation through photovoltaic processes in semiconductor devices (solar cells), including concentrating photovoltaic systems; as well as electricity produced from solar thermal heat (both concentrating and non-concentrating).

- Heat from concentrating solar thermal refers to high temperature heat produced from solar radiation captured by concentrating solar thermal systems. Heat from non-concentrating solar thermal refers to low temperature heat produced from solar radiation captured by non-concentrating solar thermal systems.

- Wind electricity refers to electricity produced from devices driven by wind.

- Wave electricity refers to electricity produced from devices driven by the motion of waves.

- Tidal electricity refers to electricity generated from devices driven by tidal currents or the differences of water level caused by tides.

- Other marine electricity refers to electricity generated from devices which exploit sources of marine energy not elsewhere specified. Examples of sources are non-tidal currents, temperature differences and salinity gradients in seas or salinity differences between sea and fresh water.

⁵ <http://data.un.org/Explorer.aspx?d=EDATA>

CONCEPTS AND DEFINITIONS

- Geothermal electricity refers to the electricity generated from the heat from geothermal sources.

- Electricity generated from chemical heat, which refers to recovered heat generated in the chemical industry by exothermic reactions other than combustion.

- Electricity from other sources not elsewhere specified.

As regards the type of producer, both for electricity production and for net installed capacity, a distinction is made between main activity producers and autoproducers, as defined below:

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

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

In the *Electricity Profiles*, autoproducer figures are not provided explicitly, but can be easily derived as the difference between total producers and main activity producers.

Own use in electricity, CHP and heat plants refers to consumption of electricity for the direct support of electricity, CHP and heat plants. It includes consumption by station auxiliaries, and losses in transformers which are considered as integral parts of the electric energy, CHP or heat generating plants.

- **Electricity plants** refer to plants producing only electricity.

- **CHP plants** (Combined Heat and Power) refer to plants which produce both heat and electricity from at least one generating unit in the plant. They are sometimes referred to as “co-generation” plants.

- **Heat plants** refer to plants (including heat pumps and electric boilers) designed to produce heat only, for deliveries to third parties.

Net production is (gross) production minus own use in electricity, CHP and heat plants. It is equivalent to the electricity sent out from the plants that is available to the network or ready for use in the premises in the case of autoproducers.

Imports comprise all electricity entering the national territory.

Exports comprise all electricity leaving the national territory.

For electricity, as an exception to general energy statistics, trade data include 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.

Losses refer to losses during the transmission and distribution of electricity. Losses also include pilferage of electricity (sometimes referred to as non-technical losses).

Consumption in the *Electricity Profiles* refers to **Energy industries own use** and **Final consumption**.

Energy industries own use refers to consumption of electricity for the direct support of the production, and preparation for use of fuels and energy. Quantities which are used for transportation purposes in the energy industry are not included here, but in Consumption by transport. Quantities used for pumped storage are included here.

Note that pumped storage plants are plants where electricity is used during periods of lower demand to pump water into reservoirs for subsequent release and electricity generation during periods of higher demand. Less electricity is eventually produced than is consumed to pump the water into the higher reservoir.

In general energy statistics, Own use in electricity, CHP and heat plants is part of Energy industries own use, but it is displayed apart in this publication so that Net production can be derived.

CONCEPTS AND DEFINITIONS

Final consumption refers to the consumption of electricity by Manufacturing, construction and non-fuel mining, by Transport, and by households and other consumers (non-energy use being irrelevant for electricity).

By industry and construction refers to final electricity consumption by manufacturing, construction and non-fuel mining industries. The final consumption recorded under this category covers the use of electricity by economic units belonging to the industry groups listed below (excluding the use of energy products for transport, which is recorded under Transport in its respective row).

- 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
- Industries, not elsewhere specified

By transport refers to the consumption of electricity by any economic entity to transport goods or persons between points of departure and destination within the national territory.

By households and other consumers: This group consists of energy consumers not classified in Manufacturing, construction and non-fuel mining industries, and consists of the following subgroups:

- Agriculture, Forestry, Fishing
- Commerce and public services
- Households
- Not elsewhere specified

Middle block – Net installed capacity

Net installed capacity refers to the Net maximum electrical capacity, which 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, but 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.

As mentioned for electricity production, a distinction is made between main activity producers and autoproducers. In the *Electricity Profiles*, autoproducer figures are not provided explicitly, but can be easily derived as the difference between total producers and main activity producers.

Bottom block – Combustible fuel input, output and efficiency

As defined in the section about the top block, electricity from **combustible fuels** refers to the production of electricity from the combustion of fuels which are capable of igniting or burning, i.e. reacting with oxygen to produce a significant rise in temperature.

Therefore, for some countries and areas this block may be empty if such processes are not utilized in the country or area in question.

Combustible fuel input is the energy content (in Terajoules) of those fuels which are combusted to generate electricity. This input is broken down by fuel (as applicable) and is calculated from the fuel quantities expressed in their original units (e.g., thousand metric tons) through the application of conversion factors.

Up to 10 fuels (by input contribution in the latest year available) are displayed alphabetically, with the remaining ones, if any, aggregated in the category Others.

CONCEPTS AND DEFINITIONS

Total input is the total aggregate of combustible fuel input.

Total production is the total electricity production from combustible fuels (both main activity and autoproducers), expressed in Terajoules by using the equivalence: 1 GWh = 3.6 Terajoules.

The **estimated efficiency** (of total electricity generation from combustible fuels) is calculated by dividing the Total production by the Total input. It gives an idea of how much energy from the fuels is converted into electricity on average in the electricity and CHP plants in the country or area.

It is important to note that the formula considers all inputs to CHP plants but only the electricity output from these plants and not the heat generated, so the calculated efficiency should be used with caution to compare countries with differing levels of CHP generation (and these levels are not apparent from this publication).

For ease of reference, the table below displays typical efficiencies for electricity and CHP plants for the main types of fuel used as input.

Generation process	Typical plant efficiency
Electricity plants	
Coal	32-40%
Oil	35-40%
Natural gas	45-55%
Biomass	20-30%
CHP plants	
Coal	50-75%
Oil	50-75%
Natural gas	60-90%
Biomass	60-85%

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols have been used in the publication:

CHP	Combined Heat and Power
GCV	Gross Calorific Value
GJ	gigajoule (10^9 joules)
GWh	gigawatt-hour (10^6 kWh)
IRES	International Recommendations for Energy Statistics
kcal	kilocalorie
kg	kilogramme
kJ	kilojoule (10^3 joules)
kWh	kilowatt-hour
NCV	Net Calorific Value
t	metric ton
TJ	terajoule (10^{12} joules)
UNSD	United Nations Statistics Division
*	estimate by the United Nations Statistics Division
..	data not applicable or not available

ELECTRICITY PROFILES

Statistics on electricity
Afghanistan

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1356	1339	1394	1420	1266	1592
Combustible fuels	159	149	155	176	200	183
Hydro	1197	1190	1239	1244	1066	1388
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	21
Main activity	1049	1034	1076	1098	979	1286
Combustible fuels	154	144	150	168	193	177
Hydro	895	890	927	930	786	1088
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	21
Own use in electricity, CHP and heat plants	*55	*55	*55	*55	*55	*55
Net production	1301	1284	1339	1365	1211	1537
Imports	3711	3779	4333	4611	4986	4912
Exports	..	..	..	..	..	..
Losses	*520	*522	*590	*615	*640	*670
Consumption	*4492	*4540	*5080	*5357	*5552	*5777
Energy industries own use	..	..	..	..	..	..
By industry and construction	*1050	*1220	*1310	*1390	*1460	*1510
By transport	..	..	..	..	..	..
By households and other cons.	*3442	*3320	*3770	*3967	*4092	*4267
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*431	519	*519	*519	*519	*531
Combustible fuels	*115	*135	*135	*135	*135	*135
Hydro	*316	384	*384	*384	*384	*384
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	*12
Main activity	*249	324	*324	*324	*324	*336
Combustible fuels	*60	*70	*70	*70	*70	*70
Hydro	*189	254	*254	*254	*254	*254
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	*12
Combustible fuel input	Terajoules					
Hard Coal	*1290	*1264	*1290	*1367	*1445	*1238
Gas-diesel oil	*645	*645	*860	*860	*1402	*1634
Fuel oil	*40	*40	*40	40	*40	*40
Total input	*1975	*1950	*2190	*2268	*2887	*2913
Total production	572	537	557	635	720	658
Estimated efficiency (% of production to input)	29	28	25	28	25	23

Statistics on electricity

Albania

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	4724	5895	7136	4526	8552	5206
Combustible fuels	..	..	..	..	..	..
Hydro	4724	5895	7136	4526	8552	5184
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	22
Main activity	4724	5895	7136	4526	8552	5206
Combustible fuels	..	..	..	..	..	..
Hydro	4724	5895	7136	4526	8552	5184
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	22
Own use in electricity, CHP and heat plants	0	29	0	28	45	29
Net production	4724	5866	7136	4498	8507	5177
Imports	3250	2355	1827	2915	850	3177
Exports	183	956	1869	0	1764	770
Losses	1119	1250	1986	1276	1156	1082
Consumption	6672	6015	5237	6135	6199	6379
Energy industries own use	149	118	141	179	115	200
By industry and construction	1466	1245	1272	1255	1316	1357
By transport	..	..	..	..	..	..
By households and other cons.	5057	4652	3823	4701	4769	4822
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1849	1922	1925	2172	2229	2361
Combustible fuels	123	123	*123	123	123	123
Hydro	1726	1799	1801	2048	2105	2223
Nuclear	..	..	..	..	..	..
Other	0	0	1	1	1	15
Main activity	1824	1897	1900	2147	2204	2336
Combustible fuels	98	98	*98	98	98	98
Hydro	1726	1799	1801	2048	2105	2223
Nuclear	..	..	..	..	..	..
Other	0	0	1	1	1	15
Combustible fuel input	Terajoules					
Refinery gas	0	0	0	0	0	0
Other oil products	0	0	0	0	..	..
Total input	0	0	0	0	0	0
Total production	..	..	..	..	..	..
Estimated efficiency (% of production to input)	..	..	..	..	..	..

Statistics on electricity
Algeria

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	64379	68903	71092	76018	76662	81533
Combustible fuels	63988	68576	70661	75383	75880	80691
Hydro	*193	*145	*72	*56	*117	*152
Nuclear	..	..	..	..	..	..
Other	*199	*181	*359	*579	*665	*690
Main activity	60637	64768	66328	70898	71225	76025
Combustible fuels	60246	64441	65897	70263	70443	75183
Hydro	*193	*145	*72	*56	*117	*152
Nuclear	..	..	..	..	..	..
Other	*199	*181	*359	*579	*665	*690
Own use in electricity, CHP and heat plants	6686	6691	7060	7473	7700	8199
Net production	57693	62212	64032	68545	68962	73334
Imports	686	610	257	537	506	531
Exports	877	641	507	880	597	673
Losses	11003	11196	10682	10869	9904	9897
Consumption	46499	50985	53100	57333	58966	63296
Energy industries own use	748	832	812	957	813	1112
By industry and construction	16020	17441	18574	20181	20669	21941
By transport	867	974	1014	1069	1173	1236
By households and other cons.	28864	31738	32700	35126	36311	39007
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*16235	17273	19031	19555	21166	*21653
Combustible fuels	*15971	16961	18549	18892	20480	*20967
Hydro	228	228	228	228	228	228
Nuclear	..	..	..	..	..	..
Other	36	84	254	435	458	458
Main activity	*11921	12959	14717	15241	15087	*15086
Combustible fuels	*11657	12647	14235	14578	14401	*14400
Hydro	228	228	228	228	228	228
Nuclear	..	..	..	..	..	..
Other	36	84	254	435	458	458
Combustible fuel input	Terajoules					
Gas-diesel oil	15695	18103	17544	9761	9469	9288
Natural gas	623247	701791	680994	722981	740892	756929
Total input	638942	719894	698538	732742	750361	766217
Total production	230357	246874	254380	271379	273168	290488
Estimated efficiency (% of production to input)	36	34	36	37	36	38

Statistics on electricity
American Samoa

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	156	161	170	167	*168	*169
Combustible fuels	153	159	167	162	*163	*164
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	3	5	5	*5
Main activity	156	161	170	167	*168	*169
Combustible fuels	153	159	167	162	*163	*164
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	3	5	5	*5
Own use in electricity, CHP and heat plants	7	7	8	8	*8	*10
Net production	149	154	161	159	*161	*159
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	13	13	14	11	*12	*14
Consumption	136	141	147	*148	*149	*146
Energy industries own use	..	..	..	..	..	..
By industry and construction	23	22	32	*30	*32	*30
By transport	..	..	..	..	..	..
By households and other cons.	113	119	115	*118	*117	*115
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	43	44	46	46	47	47
Combustible fuels	41	42	42	42	42	42
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	4	4	5	5
Main activity	43	44	46	46	47	47
Combustible fuels	41	42	42	42	42	42
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	4	4	5	5
Combustible fuel input	Terajoules					
Gas-diesel oil	*1514	*1574	*1694	*1604	*1634	*1634
Total input	*1514	*1574	*1694	*1604	*1634	*1634
Total production	553	572	600	583	*588	*592
Estimated efficiency (% of production to input)	37	36	35	36	36	36

Statistics on electricity

Andorra

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	127	100	99	103	135	107
Combustible fuels	13	14	14	17	20	21
Hydro	113	86	84	85	114	85
Nuclear	..	..	..	..	..	..
Other	0	0	0	1	1	2
Main activity	127	100	99	103	135	107
Combustible fuels	13	14	14	17	20	21
Hydro	113	86	84	85	114	85
Nuclear	..	..	..	..	..	..
Other	0	0	0	1	1	2
Own use in electricity, CHP and heat plants	0	0	0	0	1	0
Net production	127	99	99	103	134	107
Imports	439	471	485	470	439	456
Exports	0	0	0	0	0	0
Losses	68	68	67	67	68	66
Consumption	475	484	491	490	492	490
Energy industries own use	..	..	..	..	..	..
By industry and construction	8	8	8	8	11	17
By transport	..	..	..	..	..	..
By households and other cons.	467	476	483	482	482	473
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	51	51	51	52	53	53
Combustible fuels	5	5	5	5	5	5
Hydro	46	46	46	46	46	46
Nuclear	..	..	..	..	..	..
Other	0	0	0	1	2	2
Main activity	51	51	51	52	53	53
Combustible fuels	5	5	5	5	5	5
Hydro	46	46	46	46	46	46
Nuclear	..	..	..	..	..	..
Other	0	0	0	1	2	2
Combustible fuel input	Terajoules					
Municipal waste	*241	*248	*255	*306	*366	*377
Total input	*241	*248	*255	*306	*366	*377
Total production	48	50	51	61	73	75
Estimated efficiency (% of production to input)	20	20	20	20	20	20

Statistics on electricity
Angola

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	9497	9783	10379	10737	12869	15474
Combustible fuels	4439	4572	4546	3066	3058	4582
Hydro	5041	5193	5815	7653	9793	10874
Nuclear	..	..	..	..	..	..
Other	17	18	18	18	18	18
Main activity	8951	9221	9783	10307	12448	15056
Combustible fuels	3893	4010	3950	2636	2637	4165
Hydro	5041	5193	5815	7653	9793	10874
Nuclear	..	..	..	..	..	..
Other	17	18	18	18	18	18
Own use in electricity, CHP and heat plants	251	259	274	283	346	400
Net production	9246	9524	10105	10454	12523	15074
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	1068	1100	1167	1207	1447	1741
Consumption	8178	8424	8938	9247	11076	13333
Energy industries own use	..	..	..	..	..	..
By industry and construction	2757	2840	3013	3117	3727	4495
By transport	..	..	..	..	..	..
By households and other cons.	5421	5584	5925	6130	7349	8839
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*2082	*2546	*2886	*4422	5010	*6156
Combustible fuels	*770	*1091	*1284	*2067	*2298	*3444
Hydro	*1300	*1442	*1589	*2342	2699	2699
Nuclear	..	..	..	..	..	..
Other	12	13	13	13	13	13
Main activity	*1952	*2362	*2669	*4172	4760	*5856
Combustible fuels	*640	*907	*1067	*1817	*2048	*3144
Hydro	*1300	*1442	*1589	*2342	2699	2699
Nuclear	..	..	..	..	..	..
Other	12	13	13	13	13	13
Combustible fuel input	Terajoules					
Gas-diesel oil	*42226	*42398	*39345	*25499	*23951	18256
Fuel oil	3030	1697	2343	1535	3208	24385
Natural gas	..	..	..	361	867	14783
Bagasse	432	502	*463	*541	*579	*618
Total input	*45688	*44597	*42152	*27936	*28605	58042
Total production	15980	16459	16366	11038	11009	16496
Estimated efficiency (% of production to input)	35	37	39	40	38	28

Statistics on electricity
Anguilla

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	91	95	105	82	89	100
Combustible fuels	90	94	103	80	87	98
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	2	2	2	2
Main activity	91	95	105	82	89	100
Combustible fuels	90	94	103	80	87	98
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	2	2	2	2
Own use in electricity, CHP and heat plants	4	4	5	4	5	5
Net production	87	92	100	77	84	95
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	9	10	9	*9	*10	*12
Consumption	*78	*81	*91	*68	74	*83
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*78	*81	*91	*68	74	*83
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	34	34	35	26	25	26
Combustible fuels	33	33	33	24	24	24
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	2	2	1	2
Main activity	34	34	35	26	25	26
Combustible fuels	33	33	33	24	24	24
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	2	2	1	2
Combustible fuel input	Terajoules					
Gas-diesel oil	821	860	*925	*808	*839	*925
Total input	821	860	*925	*808	*839	*925
Total production	322	339	371	287	312	354
Estimated efficiency (% of production to input)	39	39	40	35	37	38

Statistics on electricity

Antigua and Barbuda

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*338	*347	*353	*353	362	*362
Combustible fuels	*336	*340	*344	*344	349	*349
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	7	9	9	13	*13
Main activity	*337	*346	*352	*352	361	*361
Combustible fuels	*335	*339	*343	*343	348	*348
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	7	9	9	13	*13
Own use in electricity, CHP and heat plants	*9	*10	*13	*8	27	*9
Net production	*329	*337	*340	*345	335	*353
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*87	*87	*87	*90	*55	*65
Consumption	*242	*250	*253	*255	*287	*288
Energy industries own use	..	..	..	..	..	..
By industry and construction	*9	*10	*12	*12	*13	*13
By transport	..	..	..	..	..	..
By households and other cons.	*233	*240	*241	*243	*274	*275
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*116	*117	*117	*119	91	*118
Combustible fuels	*111	*111	*111	*113	82	*109
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	5	6	6	6	9	9
Main activity	*115	*116	*116	*118	90	*117
Combustible fuels	*110	*110	*110	*112	81	*108
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	5	6	6	6	9	9
Combustible fuel input	Terajoules					
Gas-diesel oil	*2365	*2365	*2365	*2365	*2365	*2365
Fuel oil	*1414	*1454	*1495	*1495	*1535	*1535
Total input	*3779	*3819	*3860	*3860	*3900	*3900
Total production	*1210	*1224	*1238	*1238	1256	*1256
Estimated efficiency (% of production to input)	32	32	32	32	32	32

Statistics on electricity

Argentina

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	138551	145363	146353	145618	152224	145990
Combustible fuels	90825	96159	99479	97257	102820	95389
Hydro	41335	41451	38028	41645	41430	36878
Nuclear	5756	7139	*8285	6088	6453	7927
Other	635	614	561	628	1521	5796
Main activity	124338	131402	131526	130874	137480	131246
Combustible fuels	76649	82225	84698	82559	88122	80691
Hydro	41298	41424	37982	41599	41384	36832
Nuclear	5756	7139	*8285	6088	6453	7927
Other	635	614	561	628	1521	5796
Own use in electricity, CHP and heat plants	3641	3869	3865	3696	3917	3732
Net production	134910	141494	142488	141922	148307	142258
Imports	10027	10320	11078	10529	10030	10946
Exports	166	55	327	69	280	261
Losses	17805	22061	23994	22981	23672	20862
Consumption	126966	129700	129246	129402	129145	126020
Energy industries own use	723	578	465	401	401	401
By industry and construction	51387	52281	50466	50374	50751	49888
By transport	588	566	546	660	544	528
By households and other cons.	74268	76275	77769	77967	77449	75203
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	35945	37593	37430	39764	42128	43272
Combustible fuels	24651	25541	25314	26510	28122	28137
Hydro	10074	10063	10127	11262	11308	11330
Nuclear	1018	1763	1763	1755	1755	1755
Other	202	226	226	237	943	2050
Main activity	31931	33947	33816	36150	38514	39658
Combustible fuels	20659	21917	21722	22918	24530	24545
Hydro	10054	10043	10107	11242	11288	11310
Nuclear	1018	1763	1763	1755	1755	1755
Other	200	224	224	235	941	2048
Combustible fuel input	Terajoules					
Hard Coal	28963	27825	21219	19386	19658	7366
Gas-diesel oil	68499	84366	89225	53922	34873	17673
Fuel oil	114494	122493	113241	58216	29128	13978
Liquefied petroleum gas	0	0	0	..	..	..
Refinery gas	2475	3515	2376	2673	2624	2723
Natural gas	576765	585550	625835	699685	659367	595249
Coke-oven gas	435	435	427	460	462	504
Blast furnace gas	5892	5398	4430	2143	2143	2226
Fuelwood	7484	7665	8168	8320	6900	18050
Bagasse	5483	5429	5328	5869	5892	6039
Total input	810489	842675	870249	850674	761046	663808
Total production	326970	346172	358124	350125	370152	343400
Estimated efficiency (% of production to input)	40	41	41	41	49	52

Statistics on electricity

Armenia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	7750	7799	7315	7765	7791	7680
Combustible fuels	3289	2801	2581	2872	3376	3047
Hydro	1992	2206	2350	2269	2318	2371
Nuclear	2465	2788	2381	2620	2076	2198
Other	4	4	3	5	21	64
Main activity	7750	7799	7315	7763	7777	7632
Combustible fuels	3289	2801	2581	2872	3376	3047
Hydro	1992	2206	2350	2269	2318	2371
Nuclear	2465	2788	2381	2620	2076	2198
Other	4	4	3	2	7	17
Own use in electricity, CHP and heat plants	361	369	327	354	354	334
Net production	7389	7430	6988	7412	7437	7346
Imports	206	174	275	319	204	293
Exports	1314	1424	1229	1440	1627	1251
Losses	929	812	706	668	611	548
Consumption	5353	5372	5334	5623	5403	5839
Energy industries own use	..	..	..	..	..	..
By industry and construction	1479	1577	1631	1655	1491	1556
By transport	115	105	106	102	96	102
By households and other cons.	3759	3690	3597	3867	3815	4182
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	4091	3538	3564	3582	3591	3621
Combustible fuels	2390	1840	1840	1840	1827	1827
Hydro	1289	1286	1312	1327	1336	1340
Nuclear	408	408	408	408	408	408
Other	4	4	4	7	21	47
Main activity	4091	3538	3564	3580	3581	3588
Combustible fuels	2390	1840	1840	1840	1827	1827
Hydro	1289	1286	1312	1327	1336	1340
Nuclear	408	408	408	408	408	408
Other	4	4	4	5	11	14
Combustible fuel input	Terajoules					
Natural gas	22398	25191	23231	24537	29391	26805
Total input	22398	25191	23231	24537	29391	26805
Total production	11840	10084	9292	10338	12152	10969
Estimated efficiency (% of production to input)	53	40	40	42	41	41

Statistics on electricity

Aruba

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*917	*932	*947	*978	*983	*987
Combustible fuels	*778	*793	*802	*835	*808	*822
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*138	*138	*145	*144	*175	*165
Main activity	*917	*932	*947	*978	*983	*987
Combustible fuels	*778	*793	*802	*835	*808	*822
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*138	*138	*145	*144	*175	*165
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	*917	*932	*947	*978	*983	*987
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	138	153	*158	*165	*166	*158
Consumption	*779	*778	*789	*813	*817	*829
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*779	*778	*789	*813	*817	*829
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	288	288	288	288	288	288
Combustible fuels	258	258	258	258	258	258
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	30	30	30	30	30	30
Main activity	288	288	288	288	288	288
Combustible fuels	258	258	258	258	258	258
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	30	30	30	30	30	30
Combustible fuel input	Terajoules					
Gas-diesel oil	*568	*581	*581	*602	*606	*611
Fuel oil	*7716	*7918	*7716	*7676	*7393	*7918
Total input	*8284	*8499	*8297	*8278	*8000	*8529
Total production	*2802	*2856	*2887	*3005	*2908	*2961
Estimated efficiency (% of production to input)	34	34	35	36	36	35

Statistics on electricity
Australia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	247451	251415	256563	258019	260998	264025
Combustible fuels	214767	221479	222837	221065	219884	215498
Hydro	18421	13445	15318	16285	16021	15967
Nuclear	..	..	..	..	..	..
Other	14263	16491	18408	20669	25093	32560
Main activity	223990	226896	232479	229078	229024	227044
Combustible fuels	195263	201872	204501	199558	196915	190827
Hydro	18421	13445	15318	16285	16021	15967
Nuclear	..	..	..	..	..	..
Other	10306	11579	12660	13235	16088	20250
Own use in electricity, CHP and heat plants	14830	12882	13301	14502	13706	13494
Net production	232621	238533	243262	243517	247292	250531
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	11042	13738	16372	13218	13386	12975
Consumption	221579	224795	226890	230299	233906	237556
Energy industries own use	13627	14207	15225	19217	20579	23020
By industry and construction	79590	75895	77292	74951	75858	76083
By transport	4560	5741	6097	5883	5962	6254
By households and other cons.	123802	128952	128276	130248	131507	132199
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	68060	68382	67142	66632	68902	73528
Combustible fuels	50704	49983	47857	46194	46311	45756
Hydro	8271	8271	8271	8271	8523	8523
Nuclear	..	..	..	..	..	..
Other	9085	10128	11014	12167	14068	19249
Main activity	57928	57466	56021	55030	56603	59154
Combustible fuels	45806	44762	42994	41436	41254	40334
Hydro	8271	8271	8271	8271	8523	8523
Nuclear	..	..	..	..	..	..
Other	3851	4433	4756	5323	6826	10297
Combustible fuel input	Terajoules					
Hard Coal	648712	636963	659756	672798	699594	708534
Brown Coal	955774	1028036	1057550	1019950	920982	870160
Lignite briquettes	861	672	461	168	..	..
Biogas	14005	14520	14247	13723	14633	14884
Gas-diesel oil	37195	46569	46612	45967	44290	43172
Fuel oil	6262	7070	1818	1414	1495	2182
Other oil products	2894	3538	3095	3739	2211	3256
Natural gas	530826	553022	559114	558516	572280	567838
Fuelwood	*1731	*3669	*4193	*6857	*6776	*8814
Bagasse	*14980	*16886	*19298	*27336	*27014	*21737
Others	0	0	0	..	..	..
Total input	2213240	2310945	2366145	2350468	2289275	2240577
Total production	773161	797324	802213	795834	791582	775793
Estimated efficiency (% of production to input)	35	35	34	34	35	35

Statistics on electricity

Austria

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	65436	65299	68307	71324	68618	74234
Combustible fuels	15959	18916	18952	21296	19900	21208
Hydro	44833	40591	43009	42175	41219	43833
Nuclear	..	..	..	..	..	..
Other	4644	5792	6346	7853	7499	9192
Main activity	57740	57455	60431	63114	60631	66268
Combustible fuels	8839	11576	11618	13576	12400	13790
Hydro	44270	40102	42482	41697	40745	43299
Nuclear	..	..	..	..	..	..
Other	4631	5777	6331	7841	7486	9180
Own use in electricity, CHP and heat plants	3188	3372	3347	3231	3234	3133
Net production	62248	61927	64960	68094	65384	71101
Imports	26712	29389	26366	29362	28076	26047
Exports	17437	19328	19207	22817	19129	22918
Losses	3413	3467	3339	3459	3336	3305
Consumption	68112	68519	68778	71180	70990	70893
Energy industries own use	7911	7367	6642	8098	7545	7381
By industry and construction	26941	27283	28153	28283	28456	28015
By transport	3064	3163	3206	3263	3281	3279
By households and other cons.	30196	30706	30777	31537	31708	32218
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	24287	24742	25217	24920	25637	25901
Combustible fuels	7859	7665	7273	6613	6532	6377
Hydro	13532	13650	14117	14150	14516	14597
Nuclear	..	..	..	..	..	..
Other	2896	3427	3827	4157	4589	4927
Main activity	22029	22504	22959	23147	23921	23682
Combustible fuels	6136	5964	5561	5272	5244	4593
Hydro	12997	13113	13571	13718	14088	14162
Nuclear	..	..	..	..	..	..
Other	2896	3427	3827	4157	4589	4927
Combustible fuel input	Terajoules					
Hard Coal	27024	27341	19019	16559	17675	14894
Biogas	10276	10594	10683	11024	8099	7412
Fuel oil	6262	8646	6626	6116	4692	6254
Natural gas	52593	70545	78774	100203	90759	100520
Coke-oven gas	2771	4328	3352	3367	3165	2961
Blast furnace gas	13507	12825	12040	14177	12174	13219
Fuelwood	*44157	*44361	*40692	*41327	*41177	*39331
Municipal waste	15903	17283	19084	17640	17317	17656
Industrial waste	4502	4133	3766	3650	3112	3016
Other recovered gases	2646	2704	2512	2873	2299	2490
Others	*6025	*6278	9512	10661	11976	*4220
Total input	185666	209037	206060	227599	212446	211973
Total production	57452	68098	68227	76666	71639	76351
Estimated efficiency (% of production to input)	31	33	33	34	34	36

Statistics on electricity
Azerbaijan

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	24728	24688	24953	24321	25229	26073
Combustible fuels	23423	23042	22936	22515	23339	24359
Hydro	1300	1638	1959	1746	1768	1565
Nuclear	..	..	..	..	..	..
Other	5	9	58	59	122	150
Main activity	22706	22551	22699	22232	23133	24004
Combustible fuels	21401	20905	20699	20445	21243	22290
Hydro	1300	1638	1959	1746	1768	1565
Nuclear	..	..	..	..	..	..
Other	5	9	41	40	122	150
Own use in electricity, CHP and heat plants	998	982	918	877	869	816
Net production	23730	23707	24035	23444	24361	25257
Imports	124	108	114	108	131	137
Exports	489	265	1096	1283	1445	1491
Losses	3363	2869	2350	2251	2220	2226
Consumption	19914	20573	20660	19987	20804	21649
Energy industries own use	3007	2954	3042	2902	2993	2983
By industry and construction	3161	3163	3517	3611	3724	4398
By transport	536	482	429	397	384	397
By households and other cons.	13210	13974	13672	13077	13704	13872
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	7353	7807	7910	7942	7829	7642
Combustible fuels	6270	6691	6765	6791	6597	6395
Hydro	1078	1103	1105	1106	1131	1145
Nuclear	..	..	..	..	..	..
Other	5	13	41	44	101	102
Main activity	7111	7145	7167	7172	6977	6794
Combustible fuels	6028	6029	6029	6029	5746	5548
Hydro	1078	1103	1105	1106	1131	1145
Nuclear	..	..	..	..	..	..
Other	5	13	33	36	101	101
Combustible fuel input	Terajoules					
Gas-diesel oil	215	193	413	447	555	611
Fuel oil	162	15716	24846	12605	0	0
Natural gas	214193	212772	196866	213287	232430	232673
Municipal waste	2628	3037	2773	2782	2966	3075
Total input	217198	231717	224898	229121	235951	236358
Total production	84323	82950	82568	81055	84021	87691
Estimated efficiency (% of production to input)	39	36	37	35	36	37

Statistics on electricity

Bahamas

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1922	1998	1966	*1987	*2280	*2337
Combustible fuels	1922	1998	1966	*1987	*2280	*2337
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	1848	1922	1890	*1912	*2200	*2245
Combustible fuels	1848	1922	1890	*1912	*2200	*2245
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	*74	*76	*76	*87	*80	*97
Net production	1848	1922	1890	*1900	*2200	*2240
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*34	*11	*10	*9	*9	*10
Consumption	1814	1930	1965	*1841	*2209	*2230
Energy industries own use	..	..	..	..	..	..
By industry and construction	1108	1167	1075	*1092	*1310	*1320
By transport	..	..	..	..	..	..
By households and other cons.	706	763	890	*749	*899	*910
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	576	576	576	576	576	576
Combustible fuels	576	576	576	576	576	576
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	537	537	537	537	537	537
Combustible fuels	537	537	537	537	537	537
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	*16598	*17243	*16942	*17114	*18920	*19350
Total input	*16598	*17243	*16942	*17114	*18920	*19350
Total production	6919	7193	7078	*7153	*8208	*8413
Estimated efficiency (% of production to input)	42	42	42	42	43	43

Statistics on electricity

Bahrain

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	27204	28462	28479	29193	29516	33453
Combustible fuels	27204	28453	28469	29183	29506	33442
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	9	10	*10	*10	*11
Main activity	16215	17193	17056	17949	17833	18217
Combustible fuels	16215	17184	17046	17939	17823	18206
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	9	10	*10	*10	*11
Own use in electricity, CHP and heat plants	44	44	39	40	0	264
Net production	27160	28418	28440	29153	29516	33189
Imports	109	109	137	263	448	652
Exports	95	95	151	260	182	447
Losses	569	604	597	632	540	611
Consumption	26186	27815	27749	27765	28987	32783
Energy industries own use	..	..	..	..	..	..
By industry and construction	13633	13990	14013	13889	14511	16411
By transport	..	..	..	..	..	..
By households and other cons.	12553	13825	13736	13876	14476	16372
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	6975	6978	6977	6977	6977	*6977
Combustible fuels	6975	6972	6971	6971	6971	*6971
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	6	6	*6	*6	*6
Main activity	3925	3928	3927	3927	3927	*3927
Combustible fuels	3925	3922	3921	3921	3921	*3921
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	6	6	*6	*6	*6
Combustible fuel input	Terajoules					
Natural gas	365581	362096	343040	368948	365591	455719
Total input	365581	362096	343040	368948	365591	455719
Total production	97934	102431	102488	105059	106222	120391
Estimated efficiency (% of production to input)	27	28	30	28	29	26

Statistics on electricity
Bangladesh

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	55908	59103	68909	73249	78612	84551
Combustible fuels	55108	58287	67650	71934	77229	83407
Hydro	623	600	1020	1041	1086	769
Nuclear	..	..	..	..	..	..
Other	177	216	239	274	297	376
Main activity	40490	42994	51645	56012	61368	67690
Combustible fuels	39690	42178	50386	54697	59985	66546
Hydro	623	600	1020	1041	1086	769
Nuclear	..	..	..	..	..	..
Other	177	216	239	274	297	376
Own use in electricity, CHP and heat plants	3141	3321	3872	4115	4417	4750
Net production	52767	55782	65037	69134	74195	79801
Imports	2401	3583	4051	4935	5070	6786
Exports	..	..	..	..	..	..
Losses	6819	7120	7187	7717	8447	9537
Consumption	47946	51757	59180	65861	70409	78898
Energy industries own use	..	..	..	..	..	..
By industry and construction	26244	29832	33380	35861	37545	35193
By transport	..	..	..	..	..	..
By households and other cons.	21702	21925	25800	30000	32864	43705
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	9443	11150	11866	12213	*15293	18291
Combustible fuels	9091	10784	11495	11817	*14927	17922
Hydro	*230	*230	230	230	230	230
Nuclear	..	..	..	..	..	..
Other	122	136	141	166	136	139
Main activity	7141	8773	9587	9809	*10657	10959
Combustible fuels	6789	8407	9216	9413	*10291	10590
Hydro	*230	*230	230	230	230	230
Nuclear	..	..	..	..	..	..
Other	122	136	141	166	136	139
Combustible fuel input	Terajoules					
Hard Coal	11300	10944	11321	11321	16471	11928
Gas-diesel oil	15781	20210	21457	25843	41981	18778
Fuel oil	48036	36118	28361	31108	36097	38015
Natural gas	530247	557675	546014	660829	652782	669925
Total input	605364	624947	607153	729101	747331	738646
Total production	198389	209833	243540	258963	278024	300263
Estimated efficiency (% of production to input)	33	34	40	36	37	41

Statistics on electricity
Barbados

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1031	1043	1064	1047	1055	1070
Combustible fuels	1021	1029	1037	1009	1011	1018
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	10	14	27	38	44	52
Main activity	1017	1026	1046	1030	1038	1053
Combustible fuels	1007	1012	1020	992	994	1001
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	10	14	27	38	44	52
Own use in electricity, CHP and heat plants	58	76	65	54	17	37
Net production	972	968	999	993	1038	1033
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	48	20	21	21	20	66
Consumption	*924	*947	978	974	943	944
Energy industries own use	..	..	..	..	..	..
By industry and construction	79	80	81	117	117	117
By transport	..	..	..	..	..	..
By households and other cons.	*846	*867	897	857	825	826
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	256	258	268	281	259	301
Combustible fuels	249	249	249	262	234	261
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	7	9	19	19	25	40
Main activity	246	248	258	271	249	291
Combustible fuels	239	239	239	252	224	251
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	7	9	19	19	25	40
Combustible fuel input	Terajoules					
Gas-diesel oil	773	248	252	253	233	345
Fuel oil	7413	8060	8191	6369	7479	5842
Other kerosene	*274	*306	*340	*374	385	396
Natural gas	273	201	204	197	293	261
Bagasse	23	23	23	25	28	31
Total input	8755	8837	9010	7218	8418	6875
Total production	3674	3705	3734	3633	3641	3666
Estimated efficiency (% of production to input)	42	42	41	50	43	53

Statistics on electricity

Belarus

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	34735	34082	33566	34515	38986	40465
Combustible fuels	34602	33941	33321	33924	38386	39756
Hydro	121	107	142	405	324	350
Nuclear	..	..	..	..	..	..
Other	12	34	103	186	276	359
Main activity	31662	30676	30136	30780	35026	36202
Combustible fuels	31541	30554	29912	30207	34510	35596
Hydro	114	101	128	396	316	343
Nuclear	..	..	..	..	..	..
Other	7	21	96	177	200	263
Own use in electricity, CHP and heat plants	2217	2100	2082	2106	2220	2217
Net production	32518	31982	31484	32409	36766	38248
Imports	7806	6104	6319	5992	3257	3059
Exports	4488	3482	3298	3407	4248	5398
Losses	3187	2916	2876	2872	2835	2711
Consumption	32649	31688	31629	32122	32940	33198
Energy industries own use	2429	2400	2253	2170	2236	2268
By industry and construction	12899	12093	11956	12558	12987	13184
By transport	1280	1227	1181	1223	1311	1228
By households and other cons.	16041	15968	16239	16171	16406	16518
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	10221	9797	10007	10146	10151	10183
Combustible fuels	10181	9750	9826	9884	9808	9820
Hydro	30	30	72	98	97	97
Nuclear	..	..	..	..	..	..
Other	10	17	109	164	246	266
Main activity	9428	8988	9155	9329	9182	9206
Combustible fuels	9398	8953	8985	9078	8909	8923
Hydro	28	28	68	95	95	95
Nuclear	..	..	..	..	..	..
Other	2	7	102	156	178	188
Combustible fuel input	Terajoules					
Hard Coal	0	0	0	0	0	0
Peat	1291	1222	1210	835	783	1070
Biogas	363	390	370	441	450	416
Gas-diesel oil	0	0	0	0	0	0
Fuel oil	2868	3394	5737	3232	3919	2262
Refinery gas	2228	2030	1436	1881	1386	1089
Natural gas	451493	427730	420232	438360	479261	468069
Fuelwood	5399	5965	6943	7080	5432	5904
Industrial waste	880	993	617	675	672	688
Peat products	332	371	400	400	361	361
Others	0	0	0	0	0	0
Total input	464853	442094	436944	452903	492264	479859
Total production	124567	122188	119956	122126	138190	143122
Estimated efficiency (% of production to input)	27	28	27	27	28	30

Statistics on electricity

Belgium

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	72646	69830	85813	86776	75098	93746
Combustible fuels	29550	33209	31744	32779	33318	34633
Hydro	1465	1418	1489	1397	1329	1181
Nuclear	33703	26103	43523	42227	28597	43524
Other	7928	9100	9057	10372	11855	14408
Main activity	62879	59838	75381	75329	62971	79887
Combustible fuels	23092	26744	24932	25193	25607	25512
Hydro	1465	1418	1489	1397	1329	1181
Nuclear	33703	26103	43523	42227	28597	43524
Other	4619	5573	5437	6512	7438	9671
Own use in electricity, CHP and heat plants	2828	2450	3356	3659	3114	3855
Net production	69818	67380	82457	83117	71984	89891
Imports	21791	23714	14648	14189	21636	12734
Exports	4188	2715	8465	8168	4308	14589
Losses	3785	3816	3881	3849	3782	3590
Consumption	84253	84588	85119	85335	85959	84871
Energy industries own use	3082	2964	2918	3080	2985	2904
By industry and construction	37945	38098	38373	38592	39113	38328
By transport	1614	1631	1663	1741	1788	1794
By households and other cons.	41612	41895	42165	41922	42073	41846
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	20922	21167	21670	22226	22805	24061
Combustible fuels	8601	8520	8629	8478	8197	8213
Hydro	1431	1422	1425	1417	1418	1414
Nuclear	5927	5913	5913	5918	5918	5930
Other	4963	5312	5703	6413	7272	8504
Main activity	16497	16697	16851	17117	17244	17656
Combustible fuels	7202	7199	7162	7022	6668	6478
Hydro	1431	1422	1425	1417	1418	1414
Nuclear	5927	5913	5913	5918	5918	5930
Other	1937	2163	2351	2760	3240	3834
Combustible fuel input	Terajoules					
Hard Coal	21606	21708	3561	415	432	439
Biogas	5249	5785	5760	5478	5548	5617
Refinery gas	990	1139	1188	1104	955	213
Natural gas	149667	169641	168273	167387	176101	180363
Blast furnace gas	16739	16233	17756	18513	17943	19060
Fuelwood	*23284	*31484	*30995	*32992	*30252	*27877
Municipal waste	29725	30218	30579	30695	30250	30241
Industrial waste	5904	6152	6135	6247	6063	6253
Other recovered gases	1479	1224	1258	1213	1218	1303
Other liquid biofuels	438	685	82	140	529	584
Others	777	586	516	453	432	355
Total input	255858	284854	266103	264636	269722	272305
Total production	106380	119552	114278	118005	119944	124678
Estimated efficiency (% of production to input)	42	42	43	45	44	46

Statistics on electricity

Belize

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	349	361	389	406	415	304
Combustible fuels	93	125	128	135	166	230
Hydro	256	236	261	271	250	75
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	283	278	310	323	322	212
Combustible fuels	27	42	49	53	72	137
Hydro	256	236	261	271	250	75
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	14	11	14	11	13	9
Net production	335	350	375	395	402	295
Imports	233	255	243	230	235	384
Exports	..	..	..	..	..	..
Losses	65	69	68	64	65	69
Consumption	572	603	589	572	586	620
Energy industries own use	..	..	..	..	..	..
By industry and construction	56	65	48	47	37	37
By transport	..	..	..	..	..	..
By households and other cons.	516	538	541	525	549	583
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	154	154	146	165	165	158
Combustible fuels	99	99	94	113	113	100
Hydro	55	55	51	51	51	55
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	3
Main activity	121	121	112	120	120	113
Combustible fuels	66	66	60	68	68	55
Hydro	55	55	51	51	51	55
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	3
Combustible fuel input	Terajoules					
Crude oil	14	14	14	40	49	43
Gas-diesel oil	*59	*64	*54	*103	*113	7
Fuel oil	*174	*176	163	256	358	881
Natural gas	44	60	60	*51	*32	6
Bagasse	1927	2153	1742	1841	2350	2596
Total input	2219	2467	2033	2291	2903	3533
Total production	334	451	461	487	597	827
Estimated efficiency (% of production to input)	15	18	23	21	21	23

Statistics on electricity

Benin

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	348	330	276	331	202	529
Combustible fuels	348	324	266	325	197	521
Hydro	..	1	5	1	0	0
Nuclear	..	..	..	..	..	..
Other	..	5	5	5	5	8
Main activity	236	218	180	233	88	366
Combustible fuels	236	212	170	226	83	359
Hydro	..	1	5	1	0	0
Nuclear	..	..	..	..	..	..
Other	..	5	5	5	5	6
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	348	330	276	331	202	529
Imports	1074	1048	1089	1111	1293	1093
Exports	..	..	..	..	..	2
Losses	272	277	288	297	295	363
Consumption	974	1099	1071	1139	1183	1256
Energy industries own use	..	..	..	..	..	..
By industry and construction	198	277	232	256	288	279
By transport	..	..	..	..	..	..
By households and other cons.	776	822	839	884	895	978
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*246	*379	*381	*381	*381	*508
Combustible fuels	*244	*312	*312	*312	*312	*439
Hydro	*1	*66	*66	*66	*66	*66
Nuclear	..	..	..	..	..	..
Other	*1	1	3	3	3	3
Main activity	*201	*334	*336	*336	*336	*463
Combustible fuels	*199	*267	*267	*267	*267	*394
Hydro	*1	*66	*66	*66	*66	*66
Nuclear	..	..	..	..	..	..
Other	*1	1	3	3	3	3
Combustible fuel input	Terajoules					
Gas-diesel oil	2279	1376	1806	1022	876	1112
Fuel oil	0	566	646	648	828	1025
Natural gas	1136	1211	76	1526	750	2194
Kerosene-type jet fuel	132	176	..	..	..	..
Total input	3547	3329	2528	3197	2454	4331
Total production	1253	1166	958	1168	708	1876
Estimated efficiency (% of production to input)	35	35	38	37	29	43

Statistics on electricity

Bermuda

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	661	675	666	676	644	613
Combustible fuels	661	674	665	675	642	611
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	*1	*1	*1	*2	*2
Main activity	649	662	653	662	629	598
Combustible fuels	649	662	653	662	629	598
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	38	40	35	45	39	*16
Net production	623	635	631	631	605	597
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*44	*44	*44	*45	*38	*41
Consumption	577	591	586	585	568	554
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	577	591	586	585	568	554
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*171	*172	*173	*174	*176	*176
Combustible fuels	*171	*171	*171	*171	*172	*172
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	*1	*2	*3	4	4
Main activity	*167	*167	*167	*167	*167	*167
Combustible fuels	*167	*167	*167	*167	*167	*167
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	*1511	*769	*860	*903	*912	*851
Fuel oil	*3838	*3838	*3628	*4464	*4949	*4452
Municipal waste	*605	*605	*605	*590	*600	*600
Total input	*5954	*5212	*5093	*5957	*6461	*5903
Total production	2379	2427	2395	2431	2313	2200
Estimated efficiency (% of production to input)	40	47	47	41	36	37

Statistics on electricity
Bhutan

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	7165	7748	7954	7730	6960	8859
Combustible fuels	0	0	0	0	0	0
Hydro	7164	7747	7953	7728	6959	8857
Nuclear	..	..	..	..	..	..
Other	1	1	1	2	2	*2
Main activity	7165	7748	7954	7730	6960	8859
Combustible fuels	0	0	0	0	0	0
Hydro	7164	7747	7953	7728	6959	8857
Nuclear	..	..	..	..	..	..
Other	1	1	1	2	2	*2
Own use in electricity, CHP and heat plants	1	1	1	1	1	2
Net production	7164	7747	7954	7730	6960	8857
Imports	159	125	84	92	134	96
Exports	5147	5721	5763	5701	4581	6147
Losses	81	67	*266	58	185	526
Consumption	2004	2057	2009	2186	2186	2279
Energy industries own use	..	..	..	..	..	..
By industry and construction	1661	1636	1548	1599	1815	1745
By transport	..	..	..	..	..	..
By households and other cons.	343	421	460	587	371	534
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1499	1622	1624	1623	1624	2343
Combustible fuels	11	8	9	8	8	7
Hydro	1488	1614	1614	1614	1614	2334
Nuclear	..	..	..	..	..	..
Other	0	0	1	1	2	2
Main activity	1499	1622	1624	1623	1624	2343
Combustible fuels	11	8	9	8	8	7
Hydro	1488	1614	1614	1614	1614	2334
Nuclear	..	..	..	..	..	..
Other	0	0	1	1	2	2
Combustible fuel input	Terajoules					
Gas-diesel oil	0	0	0	*3	0	0
Total input	0	0	0	*3	0	0
Total production	0	0	0	1	0	0
Estimated efficiency (% of production to input)	32	32	42	32	33	33

Statistics on electricity
Bolivia (Plur. State of)

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	8224	9032	9307	9617	9855	10172
Combustible fuels	5959	6552	7546	7317	7056	6662
Hydro	2251	2463	1720	2234	2612	3251
Nuclear	..	..	..	..	..	..
Other	14	17	41	66	186	258
Main activity	8131	8731	9022	9265	9493	9737
Combustible fuels	5872	6253	7265	6969	6701	6234
Hydro	2251	2461	1716	2230	2606	3245
Nuclear	..	..	..	..	..	..
Other	8	17	41	66	186	258
Own use in electricity, CHP and heat plants	157	158	168	184	377	398
Net production	8067	8874	9139	9432	9478	9774
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	805	815	934	1039	1095	1227
Consumption	7392	7875	8201	8374	8450	8217
Energy industries own use	..	..	..	..	..	..
By industry and construction	2016	2112	2134	2152	2071	2039
By transport	..	..	..	..	..	..
By households and other cons.	5376	5763	6067	6223	6380	6178
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*2212	*2417	*2447	*2611	*2773	3692
Combustible fuels	*1713	*1913	*1919	*1953	*1983	2783
Hydro	494	496	496	620	692	761
Nuclear	..	..	..	..	..	..
Other	5	8	32	38	98	148
Main activity	*2100	*2243	*2259	*2415	*2644	3537
Combustible fuels	*1603	*1740	*1732	*1758	*1856	2630
Hydro	494	495	495	619	690	759
Nuclear	..	..	..	..	..	..
Other	3	8	32	38	98	148
Combustible fuel input	Terajoules					
Gas-diesel oil	2322	2537	2537	2683	2819	2942
Natural gas	67929	68114	83361	78769	71951	62478
Bagasse	*3131	*7140	*5567	*6201	*8063	*7581
Total input	73382	77791	91465	87652	82833	73001
Total production	21452	23587	27166	26341	25403	23985
Estimated efficiency (% of production to input)	29	30	30	30	31	33

Statistics on electricity

Bonaire, St Eustatius, Saba

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*120	127	132	137	*137	*145
Combustible fuels	*79	87	95	101	*91	*104
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*41	40	38	35	*45	*41
Main activity	*120	127	132	137	*137	*145
Combustible fuels	*79	87	95	101	*91	*104
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*41	40	38	35	*45	*41
Own use in electricity, CHP and heat plants	*11	11	11	12	*12	*13
Net production	*109	116	121	125	*125	*132
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*21	*20	*20	*21	*20	*22
Consumption	*88	*96	*101	*104	*105	*110
Energy industries own use	..	..	..	..	..	..
By industry and construction	*50	*51	*53	*53	*54	*58
By transport	..	..	..	..	..	..
By households and other cons.	*38	*45	*48	*51	*51	*53
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*27	*27	33	*33	*37	*37
Combustible fuels	*16	*16	20	*20	*20	*20
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*11	11	13	13	17	17
Main activity	*27	*27	33	*33	*37	*37
Combustible fuels	*16	*16	20	*20	*20	*20
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*11	11	13	13	17	17
Combustible fuel input	Terajoules					
Fuel oil	*709	*779	*850	*912	*823	*933
Total input	*709	*779	*850	*912	*823	*933
Total production	*284	312	340	365	*329	*373
Estimated efficiency (% of production to input)	40	40	40	40	40	40

Statistics on electricity
Bosnia and Herzegovina

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	16160	15629	17767	16439	19160	17493
Combustible fuels	10225	10078	12102	12431	12517	11037
Hydro	5935	5551	5641	3987	6519	6172
Nuclear	..	..	..	..	..	..
Other	..	..	24	21	124	284
Main activity	15803	15204	17373	15998	18722	17081
Combustible fuels	9868	9653	11708	11990	12079	10625
Hydro	5935	5551	5641	3987	6519	6172
Nuclear	..	..	..	..	..	..
Other	..	..	24	21	124	284
Own use in electricity, CHP and heat plants	988	985	1158	1200	1248	1099
Net production	15172	14644	16609	15239	17912	16394
Imports	3162	3872	3084	3346	3092	2825
Exports	5998	6007	6841	5187	7698	6565
Losses	1322	1394	1358	1347	1349	1257
Consumption	11014	11115	11494	12038	11957	11397
Energy industries own use	427	440	406	640	501	404
By industry and construction	3910	3999	4079	4344	4367	3690
By transport	80	91	73	76	59	59
By households and other cons.	6597	6585	6936	6978	7030	7244
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	4135	*4304	4364	4522	4440	4485
Combustible fuels	2086	*2187	2200	2295	2135	2137
Hydro	2049	*2117	2155	2211	2236	2239
Nuclear	..	..	..	..	..	..
Other	..	..	9	16	69	109
Main activity	3905	*4074	4134	4292	4370	4414
Combustible fuels	1856	*1957	1970	2065	2065	2066
Hydro	2049	*2117	2155	2211	2236	2239
Nuclear	..	..	..	..	..	..
Other	..	..	9	16	69	109
Combustible fuel input	Terajoules					
Brown Coal	116603	106377	137220	140569	139352	127268
Biogas	..	..	..	63	97	67
Fuel oil	485	566	606	646	444	485
Natural gas	416	460	307	297	289	269
Fuelwood	0	0	0	196	198	183
Total input	117503	107403	138133	141771	140381	128271
Total production	36810	36281	43567	44752	45061	39733
Estimated efficiency (% of production to input)	31	34	32	32	32	31

Statistics on electricity
Botswana

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	2315	*2967	2688	3022	3105	2508
Combustible fuels	2314	*2966	2686	3020	3100	2504
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	2	2	5	5
Main activity	2315	*2967	2688	3022	3105	2508
Combustible fuels	2314	*2966	2686	3020	3100	2504
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	2	2	5	5
Own use in electricity, CHP and heat plants	242	*410	307	440	375	303
Net production	2073	*2557	2381	2582	2730	2205
Imports	1684	1468	1650	1288	1189	1746
Exports	..	..	..	..	..	..
Losses	255	535	564	576	410	632
Consumption	3449	3495	3479	3280	3209	3208
Energy industries own use	..	..	..	..	..	..
By industry and construction	1463	1462	1382	1090	933	923
By transport	..	..	..	..	..	..
By households and other cons.	1986	2033	2097	2190	2276	2285
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	621	621	621	753	796	761
Combustible fuels	620	620	620	752	795	760
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	1	1
Main activity	601	601	601	733	796	761
Combustible fuels	600	600	600	732	795	760
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	1	1
Combustible fuel input	Terajoules					
Hard Coal	38534	27800	38227	45212	33673	42991
Gas-diesel oil	1419	1548	86	111	116	0
Total input	39953	29348	38313	45323	33789	42991
Total production	8330	*10677	9670	10872	11159	9013
Estimated efficiency (% of production to input)	21	36	25	24	33	21

Statistics on electricity

Brazil

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	590542	581228	578897	589326	601396	626329
Combustible fuels	189498	185066	148549	159476	144815	149682
Hydro	373439	359743	380911	370906	388971	397877
Nuclear	15378	14734	15864	15739	15674	16129
Other	12227	21685	33573	43205	51936	62641
Main activity	496510	484922	480360	491147	500232	523944
Combustible fuels	117565	109876	71486	80093	63542	68433
Hydro	351351	338673	359499	352313	369641	378450
Nuclear	15378	14734	15864	15739	15674	16129
Other	12216	21639	33511	43002	51375	60932
Own use in electricity, CHP and heat plants	8688	8435	7523	7765	7820	7624
Net production	581854	572793	571374	581561	593576	618705
Imports	33778	34642	41313	36511	34980	25156
Exports	3	219	518	156	1	199
Losses	89157	91067	98317	97619	97973	105647
Consumption	526473	516148	513854	520295	530581	538014
Energy industries own use	22472	23461	22249	21875	23642	25140
By industry and construction	207046	197931	196213	199682	200760	195866
By transport	1979	2055	2007	2055	1968	2251
By households and other cons.	294976	292701	293385	296683	304211	314757
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	133913	140857	150422	157579	163509	172280
Combustible fuels	37827	39563	41286	41881	40561	41281
Hydro	89193	91650	96931	100319	104198	109155
Nuclear	1990	1990	1990	1990	1990	1990
Other	4903	7654	10215	13389	16760	19854
Main activity	113012	118006	126223	132638	138011	145798
Combustible fuels	21800	21607	22101	22130	20636	21152
Hydro	84330	86766	91982	95300	99137	104087
Nuclear	1990	1990	1990	1990	1990	1990
Other	4892	7643	10150	13218	16248	18569
Combustible fuel input	Terajoules					
Hard Coal	236154	237028	229610	205225	182108	197693
Biogas	5287	6492	5728	7993	8532	11245
Gas-diesel oil	145039	107113	53105	44634	52288	61533
Fuel oil	145400	132835	54500	64882	39026	18786
Refinery gas	22459	22295	18332	19153	20316	23746
Natural gas	739443	722325	501923	577284	481645	542964
Coke-oven gas	14839	10749	11417	16320	15411	14922
Fuelwood	14141	15785	14178	15466	17037	16425
Bagasse	207176	216072	221516	222813	220118	226064
Vegetal waste	194488	236450	286638	327563	368888	130580
Others	15179	13597	11675	10818	12117	13129
Total input	1739604	1720742	1408621	1512150	1417486	1257087
Total production	682193	666238	534776	574114	521334	538855
Estimated efficiency (% of production to input)	39	39	38	38	37	43

Statistics on electricity

British Virgin Islands

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	199	*210	*212	*167	*171	*183
Combustible fuels	197	*208	*211	*166	*170	*182
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*2	*2	*2	*1	*1	*1
Main activity	199	*210	*212	*167	*171	*183
Combustible fuels	197	*208	*211	*166	*170	*182
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*2	*2	*2	*1	*1	*1
Own use in electricity, CHP and heat plants	9	*7	*7	*7	*4	*5
Net production	190	*203	*205	*160	*167	*178
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	12	*23	*22	*19	*20	*21
Consumption	*179	*181	*183	*141	*147	*157
Energy industries own use	..	..	..	..	..	..
By industry and construction	*10	*10	*10	*8	*8	*9
By transport	..	..	..	..	..	..
By households and other cons.	*169	*171	*173	*133	*139	*148
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	45	45	45	*32	*33	*33
Combustible fuels	44	44	44	*31	*32	*32
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	1	*1	*1	*1
Main activity	45	45	45	*32	*33	*33
Combustible fuels	44	44	44	*31	*32	*32
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	1	*1	*1	*1
Combustible fuel input	Terajoules					
Gas-diesel oil	*1763	*1763	*1763	*1518	*1462	*1505
Total input	*1763	*1763	*1763	*1518	*1462	*1505
Total production	710	*751	*758	*598	*612	*655
Estimated efficiency (% of production to input)	40	43	43	39	42	44

Statistics on electricity

Brunei Darussalam

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	4506	4200	4270	4157	4294	4933
Combustible fuels	4504	4198	4269	4155	4292	4931
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	1	2	2	2
Main activity	4010	3738	3843	3724	3854	4021
Combustible fuels	4008	3736	3842	3722	3852	4019
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	1	2	2	2
Own use in electricity, CHP and heat plants	451	420	379	136	129	133
Net production	4055	3780	3891	4021	4165	4799
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	289	269	243	481	481	497
Consumption	3765	3737	3648	3538	3683	4304
Energy industries own use	408	346	421	426	433	398
By industry and construction	203	189	132	134	156	709
By transport	..	..	..	..	..	..
By households and other cons.	3154	3202	3095	2978	3094	3197
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*811	*819	*820	993	993	1109
Combustible fuels	*810	*818	*819	992	992	1108
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*1	*1	*1	1	1	1
Main activity	*701	*709	*709	876	876	875
Combustible fuels	*700	*708	*708	875	875	874
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*1	*1	*1	1	1	1
Combustible fuel input	Terajoules					
Brown Coal	..	..	..	..	..	4775
Gas-diesel oil	473	473	473	559	559	584
Natural gas	55145	46433	50501	51660	54943	53240
Total input	55618	46906	50974	52219	55502	58600
Total production	16214	15113	15368	14958	15451	17752
Estimated efficiency (% of production to input)	29	32	30	29	28	30

Statistics on electricity

Bulgaria

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	47485	49228	45277	45613	46838	44302
Combustible fuels	23858	24840	22088	23633	22606	21573
Hydro	5163	6147	4568	3493	5423	3383
Nuclear	15867	15383	15776	15545	16125	16555
Other	2597	2858	2845	2941	2683	2790
Main activity	47232	48840	44786	44925	46130	43580
Combustible fuels	23619	24475	21631	22980	21921	20883
Hydro	5163	6147	4568	3493	5423	3383
Nuclear	15867	15383	15776	15545	16125	16555
Other	2583	2835	2811	2907	2661	2759
Own use in electricity, CHP and heat plants	4254	4501	4056	4261	4123	3956
Net production	43231	44727	41221	41351	42714	40346
Imports	4319	4251	4568	3705	2223	3045
Exports	13774	14826	10940	9186	10030	8855
Losses	4013	3785	3577	3476	3102	2767
Consumption	29710	30353	31328	32349	31719	32250
Energy industries own use	2036	2027	2430	2440	1826	2131
By industry and construction	8706	9033	9083	9737	9872	9830
By transport	306	352	354	378	324	359
By households and other cons.	18662	18941	19461	19794	19698	19929
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	11425	11016	10904	11069	11530	11433
Combustible fuels	4470	3991	3822	3785	4220	4097
Hydro	3219	3219	3223	3372	3379	3378
Nuclear	1975	1975	1967	1967	2008	2006
Other	1761	1831	1892	1945	1923	1951
Main activity	11330	10776	10552	10624	11105	11072
Combustible fuels	4410	3854	3635	3551	3986	3936
Hydro	3219	3219	3223	3372	3379	3378
Nuclear	1975	1975	1967	1967	2008	2006
Other	1726	1728	1727	1734	1732	1751
Combustible fuel input	Terajoules					
Hard Coal	39086	17788	13147	9340	12019	13004
Brown Coal	194391	227468	194380	216370	192447	177935
Lignite briquettes	16641	12610	14836	13244	9541	7629
Biogas	412	661	1569	1631	1875	1824
Fuel oil	525	485	606	778	687	460
Refinery gas	347	99	495	1131	583	1100
Petroleum coke	7150	6695	8418	5139	1645	1442
Natural gas	33056	28851	28808	27600	28684	30551
Fuelwood	*1279	1281	*1556	*1668	16298	20717
Municipal waste	..	..	..	..	895	578
Others	86	86	86	92	287	536
Total input	292972	296024	263901	276993	264961	255776
Total production	85889	89424	79517	85080	81383	77664
Estimated efficiency (% of production to input)	29	30	30	31	31	30

Statistics on electricity

Burkina Faso

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	870	999	973	1095	1021	752
Combustible fuels	780	906	834	958	875	588
Hydro	90	93	140	128	91	105
Nuclear	..	..	..	..	..	..
Other	..	..	..	9	54	59
Main activity	870	999	973	1095	1021	752
Combustible fuels	780	906	834	958	875	588
Hydro	90	93	140	128	91	105
Nuclear	..	..	..	..	..	..
Other	..	..	..	9	54	59
Own use in electricity, CHP and heat plants	59	59	59	65	55	40
Net production	811	941	915	1030	966	712
Imports	488	443	630	645	837	1087
Exports	..	..	..	..	..	..
Losses	175	183	*183	*224	*219	*161
Consumption	*1125	*1200	*1361	*1452	*1568	*1686
Energy industries own use	..	..	..	..	..	..
By industry and construction	414	456	*517	*535	*578	*622
By transport	..	..	..	..	..	..
By households and other cons.	*711	*744	*844	*917	*990	*1064
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	285	325	325	329	349	390
Combustible fuels	253	293	293	293	293	295
Hydro	32	32	32	32	32	32
Nuclear	..	..	..	..	..	..
Other	..	..	..	*4	*24	62
Main activity	285	325	325	329	349	390
Combustible fuels	253	293	293	293	293	295
Hydro	32	32	32	32	32	32
Nuclear	..	..	..	..	..	..
Other	..	..	..	*4	*24	62
Combustible fuel input	Terajoules					
Biogas	..	..	*36	*36	*36	*36
Gas-diesel oil	3006	2455	*2455	*2821	*2580	*1733
Fuel oil	3919	5446	*5446	*5737	*5777	*3882
Total input	6925	7901	*7937	*8594	*8393	*5651
Total production	2807	3261	3001	3448	3151	2117
Estimated efficiency (% of production to input)	41	41	38	40	38	37

Statistics on electricity

Burundi

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	184	177	181	192	246	271
Combustible fuels	40	35	31	84	105	131
Hydro	140	137	143	100	133	132
Nuclear	..	..	..	..	..	..
Other	4	5	6	8	8	8
Main activity	178	171	174	182	240	264
Combustible fuels	34	29	24	74	99	124
Hydro	140	137	143	100	133	132
Nuclear	..	..	..	..	..	..
Other	4	5	6	8	8	8
Own use in electricity, CHP and heat plants	18	19	21	27	30	35
Net production	166	158	159	165	216	236
Imports	91	*96	*128	*94	*100	*100
Exports	..	..	..	..	..	..
Losses	40	*40	*40	*40	*40	*40
Consumption	*217	*214	*216	*225	*276	*296
Energy industries own use	..	..	..	..	..	..
By industry and construction	*89	*86	*87	*91	*120	*126
By transport	..	..	..	..	..	..
By households and other cons.	*128	*128	*130	*134	*156	*170
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	46	65	64	70	87	87
Combustible fuels	*11	*11	*9	*17	34	*34
Hydro	32	51	51	48	48	48
Nuclear	..	..	..	..	..	..
Other	3	3	4	5	5	5
Main activity	44	63	62	67	84	84
Combustible fuels	*9	*9	*7	*14	31	*31
Hydro	32	51	51	48	48	48
Nuclear	..	..	..	..	..	..
Other	3	3	4	5	5	5
Combustible fuel input	Terajoules					
Fuel oil	*404	*368	*307	*921	*1212	*1252
Bagasse	*108	*108	*126	*180	*160	*166
Total input	*512	*476	*433	*1101	*1372	*1419
Total production	142	125	112	302	378	471
Estimated efficiency (% of production to input)	28	26	26	27	28	33

Statistics on electricity

Cabo Verde

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	409	421	444	492	*497	*513
Combustible fuels	338	336	361	409	*394	*417
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	71	85	83	83	*103	*95
Main activity	408	420	443	491	*496	*512
Combustible fuels	338	336	361	408	*393	*417
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	71	85	83	83	*103	*95
Own use in electricity, CHP and heat plants	11	12	11	12	*15	*15
Net production	398	409	433	480	*482	*497
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	103	104	*118	*131	*126	*127
Consumption	295	*305	*316	*343	*356	*370
Energy industries own use	..	..	..	..	..	..
By industry and construction	33	*34	*36	*36	*37	*33
By transport	..	..	..	..	..	..
By households and other cons.	262	*270	*280	*307	*319	*337
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	154	162	*169	*200	*209	*221
Combustible fuels	121	129	*136	*166	*169	*181
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	33	33	33	35	*40	*40
Main activity	154	162	*168	*200	*209	*221
Combustible fuels	121	129	*135	*165	*168	*181
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	33	33	33	35	*40	*40
Combustible fuel input	Terajoules					
Gas-diesel oil	615	*602	*688	*753	*830	*830
Fuel oil	2339	2445	2631	*2881	*2769	*3030
Total input	2954	3047	3319	*3633	*3599	*3860
Total production	1217	1210	1301	1472	*1417	*1503
Estimated efficiency (% of production to input)	41	40	39	41	39	39

Statistics on electricity

Cambodia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	3170	4628	5812	6902	8475	8675
Combustible fuels	1260	2577	3111	4105	3581	4557
Hydro	1907	2048	2698	2792	4879	4025
Nuclear	..	..	..	..	..	..
Other	3	3	3	5	16	93
Main activity	3170	4628	5812	6902	8475	8675
Combustible fuels	1260	2577	3111	4105	3581	4557
Hydro	1907	2048	2698	2792	4879	4025
Nuclear	..	..	..	..	..	..
Other	3	3	3	5	16	93
Own use in electricity, CHP and heat plants	225	155	285	215	306	333
Net production	2945	4473	5527	6687	8169	8342
Imports	1803	1547	1582	1442	1570	3063
Exports	..	..	..	..	..	..
Losses	717	810	936	1332	1090	1187
Consumption	4036	5211	6176	6792	8653	10218
Energy industries own use	..	..	..	..	..	..
By industry and construction	1058	1140	1419	1745	2291	3383
By transport	..	..	..	..	..	..
By households and other cons.	2978	4071	4757	5047	6362	6834
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1513	1659	1683	1878	2187	2443
Combustible fuels	582	728	751	888	847	1007
Hydro	929	930	930	980	1330	1330
Nuclear	..	..	..	..	..	..
Other	*2	*2	*2	10	10	105
Main activity	1513	1659	1683	1878	2187	2443
Combustible fuels	582	728	751	888	847	1007
Hydro	929	930	930	980	1330	1330
Nuclear	..	..	..	..	..	..
Other	*2	*2	*2	10	10	105
Combustible fuel input	Terajoules					
Brown Coal	12767	22731	31600	35044	37514	41618
Gas-diesel oil	2322	1505	2709	2127	2127	365
Fuel oil	1495	970	1737	1374	1374	8070
Vegetal waste	244	545	1118	1132	1385	1974
Total input	16828	25750	37165	39677	42400	52027
Total production	4536	9277	11200	14778	12890	16404
Estimated efficiency (% of production to input)	27	36	30	37	30	32

Statistics on electricity
Cameroon

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	6927	7985	7531	8082	8581	8476
Combustible fuels	2546	3616	2767	2976	3539	3227
Hydro	4373	4359	4752	5090	5023	5229
Nuclear	..	..	..	..	..	..
Other	8	10	12	16	19	19
Main activity	4794	4748	5042	5391	5336	5486
Combustible fuels	413	379	278	286	293	237
Hydro	4373	4359	4752	5090	5023	5229
Nuclear	..	..	..	..	..	..
Other	8	10	12	16	19	19
Own use in electricity, CHP and heat plants	60	233	220	236	251	248
Net production	6867	7752	7311	7846	8330	8229
Imports	729	18	17	18	19	19
Exports	..	..	..	..	..	..
Losses	2114	1663	1693	1790	1805	1864
Consumption	5483	6107	5761	6182	6564	6484
Energy industries own use	..	..	..	..	..	..
By industry and construction	3005	3408	3215	3450	3663	3619
By transport	..	..	..	..	..	..
By households and other cons.	2478	2699	2546	2732	2901	2866
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*1848	*1909	*1944	*2054	*1669	*1669
Combustible fuels	*1109	*1167	*1200	*1265	*918	*918
Hydro	*732	*732	*732	777	732	732
Nuclear	..	..	..	..	..	..
Other	*7	*10	*12	*12	*19	*19
Main activity	*1256	*1259	*1294	1404	1019	1019
Combustible fuels	517	*517	*550	615	268	268
Hydro	*732	*732	*732	777	732	732
Nuclear	..	..	..	..	..	..
Other	*7	*10	*12	*12	*19	*19
Combustible fuel input	Terajoules					
Gas-diesel oil	8471	10019	10277	10551	10831	9304
Fuel oil	2788	3272	3353	3444	3536	2860
Natural gas	17069	18966	20295	22550	29315	27673
Fuelwood	*675	*327	*342	*354	*369	*383
Total input	29003	32584	34267	36899	44050	40220
Total production	9166	13018	9961	10713	12739	11619
Estimated efficiency (% of production to input)	32	40	29	29	29	29

Statistics on electricity

Canada

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	658762	657944	663808	662972	653780	645429
Combustible fuels	141973	143856	141715	131719	129889	127583
Hydro	382574	382266	385505	394659	385951	379742
Nuclear	107280	101809	101429	101299	100731	101197
Other	26935	30013	35159	35295	37209	36907
Main activity	599310	591300	602562	599707	591893	584334
Combustible fuels	113695	111269	110323	100447	99621	97526
Hydro	351528	348595	357230	364520	356398	350866
Nuclear	107280	101809	101429	101299	100731	101197
Other	26807	29627	33580	33441	35143	34745
Own use in electricity, CHP and heat plants	19414	19450	19371	18831	18386	18200
Net production	639348	638494	644437	644141	635394	627229
Imports	12808	8726	9303	9904	13195	13334
Exports	58421	68287	73103	72040	61401	60410
Losses	29295	33263	32537	35407	34101	33797
Consumption	538149	536135	532166	552113	562977	567540
Energy industries own use	37203	37810	38037	38387	38607	37875
By industry and construction	175985	174463	174309	182145	183858	189125
By transport	5985	6717	7533	7865	7960	7680
By households and other cons.	318976	317145	312287	323716	332552	332860
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	137859	144846	146601	147449	148762	149594
Combustible fuels	35447	36871	37557	37307	37322	37322
Hydro	75474	79405	80304	80831	81396	81399
Nuclear	14033	14033	14033	14033	14033	14033
Other	12905	14537	14707	15278	16011	16840
Main activity	126172	132975	134654	135378	136350	137069
Combustible fuels	29616	31133	31873	31748	31648	31648
Hydro	70232	74135	75181	75699	76221	76224
Nuclear	14033	14033	14033	14033	14033	14033
Other	12291	13674	13567	13898	14448	15164
Combustible fuel input	Terajoules					
Hard Coal	54086	46701	48580	48616	52038	49663
Brown Coal	574279	535440	530956	524953	406221	366896
Biogas	10206	10206	10206	10206	10206	10206
Gas-diesel oil	11094	12814	13158	12728	15265	13889
Fuel oil	27391	30785	27957	26220	23109	19554
Refinery gas	12029	11831	11534	11039	13167	14256
Petroleum coke	30063	31655	28438	27755	28633	26553
Natural gas	658718	691392	667746	624031	722331	734657
Fuelwood	*73238	*76944	*81859	*98620	*88541	*93581
Municipal waste	3421	3421	3421	3421	4450	4444
Others	1211	3134	3053	3282	2711	2857
Total input	1455734	1454323	1426907	1390871	1366672	1336555
Total production	511103	517882	510174	474188	467600	459299
Estimated efficiency (% of production to input)	35	36	36	34	34	34

Statistics on electricity

Cayman Islands

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	621	640	666	671	658	696
Combustible fuels	621	640	666	671	658	696
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	621	640	666	671	658	696
Combustible fuels	621	640	666	671	658	696
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	621	640	666	671	658	696
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	37	38	40	29	9	6
Consumption	584	601	627	642	649	689
Energy industries own use	..	..	..	..	..	..
By industry and construction	301	308	311	312	318	330
By transport	..	..	..	..	..	..
By households and other cons.	283	293	316	330	331	359
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	132	132	161	161	161	161
Combustible fuels	132	132	161	161	161	161
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	132	132	161	161	161	161
Combustible fuels	132	132	161	161	161	161
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	5246	5332	5246	5547	5586	6368
Total input	5246	5332	5246	5547	5586	6368
Total production	2236	2304	2398	2414	2368	2504
Estimated efficiency (% of production to input)	43	43	46	44	42	39

Statistics on electricity

Central African Rep.

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	140	142	143	145	147	149
Combustible fuels	1	*1	*1	*1	*1	*1
Hydro	139	141	142	144	146	148
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Main activity	140	142	143	145	147	149
Combustible fuels	1	*1	*1	*1	*1	*1
Hydro	139	141	142	144	146	148
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	140	142	143	145	147	149
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*10	*10	*10	*10	*10	*10
Consumption	*130	*132	*133	*135	*137	*139
Energy industries own use	..	..	..	..	..	..
By industry and construction	*65	*65	*65	*65	*65	*65
By transport	..	..	..	..	..	..
By households and other cons.	*65	*67	*68	*70	*72	*74
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*44	*44	*44	*44	*44	*44
Combustible fuels	*19	*19	*19	*19	*19	*19
Hydro	*25	*25	*25	*25	*25	*25
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Main activity	*44	*44	*44	*44	*44	*44
Combustible fuels	*19	*19	*19	*19	*19	*19
Hydro	*25	*25	*25	*25	*25	*25
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Combustible fuel input	Terajoules					
Gas-diesel oil	*15	*15	*15	*15	*15	*15
Total input	*15	*15	*15	*15	*15	*15
Total production	4	*4	*4	*4	*4	*4
Estimated efficiency (% of production to input)	24	24	24	24	24	24

Statistics on electricity

Chad

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	286	290	294	299	303	308
Combustible fuels	286	290	294	299	303	308
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	286	290	294	299	303	308
Combustible fuels	286	290	294	299	303	308
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	8	8	8	8	10	11
Net production	278	282	286	291	293	297
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*43	*44	*44	*45	*45	*46
Consumption	*226	*235	*240	*242	*245	*249
Energy industries own use	..	..	..	..	..	..
By industry and construction	*80	*83	*83	*85	*86	*87
By transport	..	..	..	..	..	..
By households and other cons.	*146	*152	*157	*157	*159	*162
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*86	*86	*86	*86	*86	*86
Combustible fuels	*86	*86	*86	*86	*86	*86
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*86	*86	*86	*86	*86	*86
Combustible fuels	*86	*86	*86	*86	*86	*86
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	*2460	*2537	*2537	*2537	*2580	*2636
Total input	*2460	*2537	*2537	*2537	*2580	*2636
Total production	1030	1044	1058	1076	1091	1109
Estimated efficiency (% of production to input)	42	41	42	42	42	42

Statistics on electricity

Chile

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	70753	75387	79308	79417	82313	84558
Combustible fuels	45440	48130	50946	50602	49926	50564
Hydro	23099	23881	23274	21315	23367	22477
Nuclear	..	..	..	..	..	..
Other	2214	3376	5088	7499	9020	11517
Main activity	64841	69166	72332	72033	75338	78033
Combustible fuels	39706	41956	44131	43264	43016	44076
Hydro	22940	23837	23113	21271	23307	22447
Nuclear	..	..	..	..	..	..
Other	2195	3373	5088	7497	9015	11510
Own use in electricity, CHP and heat plants	1301	3358	2854	2388	2430	2458
Net production	69452	72029	76454	77028	79882	82100
Imports	0	0	0	0	0	..
Exports	..	..	2	39	..	..
Losses	4364	3707	2873	4175	3511	3570
Consumption	67836	67650	70830	70350	73716	74843
Energy industries own use	688	643	659	727	682	746
By industry and construction	43333	42267	43611	41432	44091	44552
By transport	944	1088	986	963	1151	1296
By households and other cons.	22871	23652	25574	27228	27792	28249
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	20513	21436	24530	26207	27534	27644
Combustible fuels	13111	13451	15695	16500	16877	16544
Hydro	6445	6499	6671	6656	6627	6341
Nuclear	..	..	..	..	..	..
Other	957	1486	2164	3050	4030	4759
Main activity	19203	20108	22044	22538	23293	24288
Combustible fuels	11829	12132	13247	12842	12652	13234
Hydro	6417	6491	6635	6648	6619	6333
Nuclear	..	..	..	..	..	..
Other	957	1485	2162	3047	4023	4721
Combustible fuel input	Terajoules					
Hard Coal	240980	278760	270099	280901	264610	310619
Biogas	2241	2794	2855	2904	3659	3327
Gas-diesel oil	27348	21586	21242	11459	7373	6717
Fuel oil	6908	3596	2868	3409	2074	1878
Liquefied petroleum gas	..	47	..	117	35	14
Refinery gas	0	0	0	0	..	..
Petroleum coke	6273	6533	7800	6663	7217	7345
Natural gas	79254	90267	99283	105835	100812	122629
Fuelwood	141213	*146365	*140409	*157602	*147965	*145882
Black liquor	..	*3083	*32244	*33359	*38481	*35206
Total input	504217	553030	576800	602248	572227	633618
Total production	163584	173268	183406	182167	179734	182030
Estimated efficiency (% of production to input)	32	31	32	30	31	29

Statistics on electricity
China

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	5794278	5814573	6133158	6604476	7166133	7503458
Combustible fuels	4400111	4284188	4437068	4754595	5096318	5220150
Hydro	1072882	1130270	1184048	1197865	1231787	1304440
Nuclear	132538	170789	213287	248100	294359	348350
Other	188747	229326	298755	403916	543669	630518
Main activity	5437429	5467125	5773312	6218878	6752822	7080104
Combustible fuels	4043262	3936740	4077222	4368997	4683007	4796796
Hydro	1072882	1130270	1184048	1197865	1231787	1304440
Nuclear	132538	170789	213287	248100	294359	348350
Other	188747	229326	298755	403916	543669	630518
Own use in electricity, CHP and heat plants	438500	444674	491447	509662	553523	570341
Net production	5355778	5369899	5641711	6094814	6612610	6933117
Imports	6750	6210	6185	6423	5688	4860
Exports	18158	18654	18907	19470	20906	21650
Losses	309988	298786	306293	319583	335171	333010
Consumption	5034302	5058539	5322766	5762182	6262126	6583287
Energy industries own use	222925	227134	230305	246475	261166	284598
By industry and construction	3325446	3254273	3344203	3608516	3848414	3981029
By transport	105924	112561	125149	141798	160850	175230
By households and other cons.	1380007	1464571	1623109	1765392	1991696	2142430
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1463980	1619480	1749872	1824130	1952048	2064680
Combustible fuels	1014410	1095840	1160274	1149480	1195998	1244540
Hydro	304860	319540	332071	344110	352590	358040
Nuclear	20080	27170	33642	35820	44660	48740
Other	124630	176930	223885	294720	358800	413360
Main activity	1381890	1529180	1650542	1779600	1900858	2009710
Combustible fuels	932320	1005540	1060944	1104950	1144808	1189570
Hydro	304860	319540	332071	344110	352590	358040
Nuclear	20080	27170	33642	35820	44660	48740
Other	124630	176930	223885	294720	358800	413360
Combustible fuel input	Terajoules					
Hard Coal	37891793	36400310	37620001	39931035	42227542	43292754
Gas-diesel oil	11107	9615	12552	10268	11331	10397
Refinery gas	0	24958	27938	33180	29928	26032
Petroleum coke	37161	44288	49280	47405	59387	58884
Natural gas	1191701	1471872	1724728	1863643	2155130	2230440
Gasworks gas	85229	91643	119217	145944	220865	211080
Coke-oven gas	292363	298379	339733	342407	326295	365890
Blast furnace gas	573128	586300	681240	721500	920268	980540
Vegetal waste	229758	310173	356699	412563	420814	420814
Industrial waste	186570	158824	164349	192755	182040	188997
Others	34169	24704	20794	18355	16565	21070
Total input	40532979	39421065	41116530	43719054	46570164	47806898
Total production	15840400	15423077	15973445	17116542	18346745	18792540
Estimated efficiency (% of production to input)	39	39	39	39	39	39

Statistics on electricity
China, Hong Kong SAR

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	39803	37924	38154	36970	36565	36911
Combustible fuels	39803	37924	38154	36970	36565	36911
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	39803	37924	38154	36970	36565	36911
Combustible fuels	39803	37924	38154	36970	36565	36911
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	39803	37924	38154	36970	36565	36911
Imports	10288	11742	11621	12576	12599	12381
Exports	1226	1187	1205	1341	556	..
Losses	4986	4567	4542	4373	4303	4373
Consumption	43880	43912	44028	43832	44305	44919
Energy industries own use	..	..	..	..	..	..
By industry and construction	3134	3177	3126	3110	3078	3004
By transport	..	..	..	..	..	..
By households and other cons.	40746	40735	40902	40722	41227	41915
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	12625	12625	12625	12492	12282	12225
Combustible fuels	12625	12625	12625	12492	12282	12225
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	12625	12625	12625	12492	12282	12225
Combustible fuels	12625	12625	12625	12492	12282	12225
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Hard Coal	340806	280287	280313	262592	269686	258248
Gas-diesel oil	2064	2623	3827	4257	3182	2236
Fuel oil	40	0	0	0	..	..
Natural gas	73829	103478	106574	106754	103006	108340
Total input	416739	386388	390714	373603	375874	368824
Total production	143291	136526	137354	133092	131634	132880
Estimated efficiency (% of production to input)	34	35	35	36	35	36

Statistics on electricity
China, Macao SAR

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	641	950	988	1465	653	830
Combustible fuels	641	950	988	1465	653	830
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	435	753	787	1260	474	613
Combustible fuels	435	753	787	1260	474	613
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	42	11	98	108	98	100
Net production	599	939	890	1357	555	730
Imports	4099	4054	4306	3952	4911	4976
Exports	..	..	..	..	..	..
Losses	166	124	158	139	150	157
Consumption	4532	4918	5050	5171	5321	5550
Energy industries own use	2	2	2	2	2	..
By industry and construction	251	253	218	204	193	184
By transport	..	..	..	..	..	..
By households and other cons.	4279	4663	4830	4965	5126	5366
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	501	501	501	437	437	437
Combustible fuels	501	501	501	437	437	437
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	472	472	472	408	408	408
Combustible fuels	472	472	472	408	408	408
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	0	430	86	43	0	86
Fuel oil	1737	5616	6100	4727	1697	1333
Natural gas	2210	0	0	6344	2902	4531
Municipal waste	*4698	*3252	*3384	*3339	*3386	*3878
Total input	*8645	9298	9570	14453	7985	9828
Total production	2308	3420	3555	5275	2350	2987
Estimated efficiency (% of production to input)	27	37	37	36	29	30

Statistics on electricity

Colombia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	72886	75139	74574	75125	78426	80590
Combustible fuels	27936	30272	27605	17641	21563	25759
Hydro	44881	44798	46918	57476	56809	54636
Nuclear	..	..	..	..	..	..
Other	70	68	51	8	54	195
Main activity	64328	66548	65933	66557	68943	70115
Combustible fuels	19516	21798	19094	9221	12241	15482
Hydro	44742	44682	46788	57328	56648	54437
Nuclear	..	..	..	..	..	..
Other	70	68	51	8	54	195
Own use in electricity, CHP and heat plants	138	116	130	148	161	199
Net production	72748	75023	74444	74977	78265	80391
Imports	47	45	378	78	122	1765
Exports	849	460	45	9	16	6
Losses	5850	7118	7000	5560	8155	5724
Consumption	65781	67172	67467	69136	69902	76064
Energy industries own use	7465	7635	7629	7905	8371	8892
By industry and construction	18653	18535	18622	19289	19646	22312
By transport	85	91	96	97	104	105
By households and other cons.	39578	40911	41121	41846	41781	44754
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	15915	17753	17691	17931	18889	19009
Combustible fuels	6043	6093	5972	6084	6854	6890
Hydro	9788	11576	11700	11820	11931	12011
Nuclear	..	..	..	..	..	..
Other	84	84	18	28	*104	*108
Main activity	14295	16133	16067	16307	17265	17385
Combustible fuels	4515	4565	4442	4554	5324	5360
Hydro	9696	11484	11606	11726	11837	11917
Nuclear	..	..	..	..	..	..
Other	84	84	18	28	*104	*108
Combustible fuel input	Terajoules					
Hard Coal	60424	65820	65499	32505	45585	88207
Crude oil	10062	10157	11018	11715	11880	12705
Gas-diesel oil	11395	11650	12638	13438	13627	14574
Fuel oil	0	0	0	0	0	0
Liquefied petroleum gas	1207	1172	1224	1405	1381	1408
Natural gas	39750	40760	42708	45918	48447	55201
Blast furnace gas	400	410	384	346	349	279
Bagasse	7139	7260	7742	7536	7703	9663
Total input	130377	137228	141212	112863	128972	182037
Total production	100568	108980	99379	63508	77626	92732
Estimated efficiency (% of production to input)	77	79	70	56	60	51

Statistics on electricity

Comoros

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*58	*53	*58	*91	*98	*108
Combustible fuels	*53	*53	*58	*91	*98	*108
Hydro	5	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*53	*53	*58	*91	*98	*108
Combustible fuels	*53	*53	*58	*91	*98	*108
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	*11	*6	*7	*11	*12	*13
Net production	*46	*47	*51	*80	*87	*95
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*15	*15	*16	*25	*27	*30
Consumption	*32	*32	*35	*55	*59	*65
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*32	*32	*35	*55	*59	*65
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*26	*27	*27	*35	*35	*35
Combustible fuels	*25	*26	*26	*34	*34	*34
Hydro	1	1	1	1	1	1
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*25	*26	*26	*34	*34	*34
Combustible fuels	*25	*26	*26	*34	*34	*34
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	*663	*668	*738	*1147	*1243	*1368
Total input	*663	*668	*738	*1147	*1243	*1368
Total production	*189	*190	*210	*327	*354	*390
Estimated efficiency (% of production to input)	29	28	29	29	28	29

Statistics on electricity
Congo

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1826	2770	2953	2965	3096	3655
Combustible fuels	788	1671	1825	1761	2001	2807
Hydro	1038	1098	1127	1203	1094	847
Nuclear	..	..	..	..	..	..
Other	..	1	1	1	1	1
Main activity	1038	1099	1128	1204	1095	848
Combustible fuels	..	..	..	..	..	..
Hydro	1038	1098	1127	1203	1094	847
Nuclear	..	..	..	..	..	..
Other	..	1	1	1	1	1
Own use in electricity, CHP and heat plants	205	311	332	333	348	411
Net production	1621	2459	2621	2631	2748	3244
Imports	18	13	21	22	28	23
Exports	22	33	22	22	26	44
Losses	813	1234	1362	1324	1384	1623
Consumption	836	1318	1439	1555	1586	1596
Energy industries own use	..	..	..	..	..	..
By industry and construction	391	75	84	103	105	104
By transport	..	..	..	..	..	..
By households and other cons.	445	1243	1355	1451	1481	1492
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*590	600	*600	*606	*606	*606
Combustible fuels	*370	391	*391	*391	*391	*391
Hydro	*220	209	*209	214	214	214
Nuclear	..	..	..	..	..	..
Other	0	0	0	1	1	1
Main activity	*240	250	*250	256	256	256
Combustible fuels	*20	41	*41	*41	*41	*41
Hydro	*220	209	*209	214	214	214
Nuclear	..	..	..	..	..	..
Other	0	0	0	1	1	1
Combustible fuel input	Terajoules					
Gas-diesel oil	..	2709	2107	1258	1429	2005
Fuel oil	..	687	485	375	426	598
Natural gas	9166	19968	22868	24045	27316	38328
Total input	9166	23364	25460	25678	29171	40931
Total production	2837	6016	6570	6340	7202	10106
Estimated efficiency (% of production to input)	31	26	26	25	25	25

Statistics on electricity

Cook Islands

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	33	33	34	37	41	39
Combustible fuels	31	29	30	31	31	29
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	3	5	6	11	10
Main activity	33	33	34	37	41	39
Combustible fuels	31	29	30	31	31	29
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	3	5	6	11	10
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	33	33	34	37	41	39
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	..	..	..	..	..	..
Consumption	33	33	34	37	41	39
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	33	33	34	37	41	39
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*10	*14	*15	*15	*17	*18
Combustible fuels	*8	*11	*11	*11	*11	*11
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	3	4	4	6	7
Main activity	*10	*14	*15	*15	*17	*18
Combustible fuels	*8	*11	*11	*11	*11	*11
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	3	4	4	6	7
Combustible fuel input	Terajoules					
Gas-diesel oil	*327	*301	*314	*344	*348	*323
Total input	*327	*301	*314	*344	*348	*323
Total production	112	105	107	111	111	104
Estimated efficiency (% of production to input)	34	35	34	32	32	32

Statistics on electricity
Costa Rica

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	10216	10812	10932	11359	11528	11508
Combustible fuels	1224	287	389	237	358	295
Hydro	6717	8067	8026	8677	8343	7827
Nuclear	..	..	..	..	..	..
Other	2275	2458	2517	2445	2827	3386
Main activity	7858	7797	10707	11123	11279	11241
Combustible fuels	1043	108	193	37	159	96
Hydro	5379	6256	8026	8677	8343	7827
Nuclear	..	..	..	..	..	..
Other	1436	1433	2488	2408	2777	3319
Own use in electricity, CHP and heat plants	117	124	115	120	121	121
Net production	10099	10688	10817	11240	11407	11387
Imports	759	537	807	551	572	733
Exports	555	643	657	741	813	712
Losses	1106	1161	1279	1295	1313	1326
Consumption	9207	9428	9688	9804	9892	10062
Energy industries own use	..	..	..	..	..	..
By industry and construction	1858	1873	1898	1967	1876	1857
By transport	..	..	..	..	..	..
By households and other cons.	7349	7556	7790	7836	8016	8206
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	3274	3626	4003	3566	3648	3626
Combustible fuels	622	661	617	617	629	550
Hydro	2045	2152	2538	2328	2360	2344
Nuclear	..	..	..	..	..	..
Other	607	*813	847	621	659	732
Main activity	2845	3061	3427	3490	3551	3495
Combustible fuels	597	636	572	572	572	474
Hydro	1835	1942	2328	2328	2359	2343
Nuclear	..	..	..	..	..	..
Other	413	483	527	590	620	678
Combustible fuel input	Terajoules					
Biogas	1	1	4	4	7	3
Gas-diesel oil	2609	56	161	29	131	817
Fuel oil	7102	892	1558	334	1285	76
Bagasse	1129	1196	1188	1198	1158	1162
Vegetal waste	118	118	209	217	232	238
Total input	10959	2264	3120	1782	2814	2296
Total production	4406	1035	1401	853	1290	1064
Estimated efficiency (% of production to input)	40	46	45	48	46	46

Statistics on electricity
Côte d'Ivoire

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	8286	8711	10253	10121	10058	10697
Combustible fuels	6373	7359	8724	8074	7096	7197
Hydro	1913	1352	1529	2047	2962	3481
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	18
Main activity	8214	8606	10080	9948	9997	10631
Combustible fuels	6301	7254	8551	7901	7035	7132
Hydro	1913	1352	1529	2047	2962	3481
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	18
Own use in electricity, CHP and heat plants	414	436	513	1420	192	382
Net production	7872	8275	9740	8701	9866	10315
Imports	0	23	19	37	102	77
Exports	877	872	1877	1247	1156	1255
Losses	1187	1744	1627	1197	1874	1957
Consumption	5561	6023	6615	6318	6927	7297
Energy industries own use	..	..	..	..	1	1
By industry and construction	1881	2011	2177	2177	1989	2124
By transport	..	..	..	..	..	..
By households and other cons.	3680	4012	4438	4141	4937	5173
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*1659	1914	1914	2203	2192	2233
Combustible fuels	*1223	1305	1305	1316	1305	1346
Hydro	*432	604	604	879	879	879
Nuclear	..	..	..	..	..	..
Other	4	5	5	8	8	8
Main activity	*1636	1891	1891	2180	2169	2210
Combustible fuels	*1200	1282	1282	1293	1282	1323
Hydro	*432	604	604	879	879	879
Nuclear	..	..	..	..	..	..
Other	4	5	5	8	8	8
Combustible fuel input	Terajoules					
Gas-diesel oil	129	129	99	86	86	94
Fuel oil	6141	4848	893	889	40	10
Natural gas	64991	67526	81287	73437	64897	69186
Vegetal waste	1478	1885	1926	1941	2087	2230
Total input	72739	74388	84204	76353	67110	71519
Total production	22943	26492	31405	29066	25546	25911
Estimated efficiency (% of production to input)	32	36	37	38	38	36

Statistics on electricity

Croatia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	13554	11403	12820	11984	13632	12760
Combustible fuels	3664	3994	4682	5193	4435	5185
Hydro	9125	6556	7058	5508	7785	5933
Nuclear	..	..	..	..	..	..
Other	765	853	1080	1283	1412	1642
Main activity	13209	11087	12482	11564	13259	12385
Combustible fuels	3326	3684	4351	4779	4068	4816
Hydro	9118	6550	7051	5502	7779	5927
Nuclear	..	..	..	..	..	..
Other	765	853	1080	1283	1412	1642
Own use in electricity, CHP and heat plants	395	420	536	461	450	510
Net production	13159	10983	12284	11523	13182	12250
Imports	10898	13158	12398	12158	12693	11401
Exports	6945	6369	6867	5204	7306	5268
Losses	1764	1802	1806	1765	1824	1659
Consumption	15348	15970	16009	16711	16745	16724
Energy industries own use	515	627	709	733	570	569
By industry and construction	3291	3429	3426	3607	3683	3613
By transport	231	245	251	267	282	273
By households and other cons.	11311	11669	11623	12104	12210	12270
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	4428	4764	4794	4970	5006	4712
Combustible fuels	1933	2124	2082	2141	2142	1771
Hydro	2114	2207	2175	2193	2200	2200
Nuclear	..	..	..	..	..	..
Other	381	*433	537	636	664	741
Main activity	4271	4597	4627	4811	4841	4547
Combustible fuels	1778	1959	1917	1984	1980	1609
Hydro	2112	2205	2173	2190	2197	2197
Nuclear	..	..	..	..	..	..
Other	381	*433	537	636	664	741
Combustible fuel input	Terajoules					
Hard Coal	22796	21951	24409	13219	12359	14263
Brown Coal	143	128	152	144	108	99
Biogas	974	1438	1881	2644	3062	3421
Gas-diesel oil	43	86	43	73	39	43
Fuel oil	1535	2303	404	1693	319	226
Refinery gas	99	149	149	228	233	59
Natural gas	15770	17107	20405	31889	24895	27273
Fuelwood	1190	*2189	*3730	*4245	*7004	*8984
Total input	42550	45350	51173	54135	48018	54369
Total production	13190	14378	16855	18695	15964	18667
Estimated efficiency (% of production to input)	31	32	33	35	33	34

Statistics on electricity

Cuba

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	19366	20288	20459	20558	20837	20703
Combustible fuels	19225	20190	20334	20394	20524	20328
Hydro	104	48	64	83	146	125
Nuclear	..	..	..	..	..	..
Other	*37	*50	*60	*81	*168	*251
Main activity	18529	19390	19509	19595	20074	19861
Combustible fuels	18387	19292	19385	19431	19761	19486
Hydro	104	48	64	83	146	125
Nuclear	..	..	..	..	..	..
Other	*37	*50	*60	*81	*168	*251
Own use in electricity, CHP and heat plants	1013	993	1058	1891	1958	1944
Net production	18354	19295	19400	18667	18879	18759
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	2961	3135	3117	3177	3290	3429
Consumption	15392	16160	16283	15490	15589	15331
Energy industries own use	..	..	..	..	..	..
By industry and construction	3679	3793	3772	3067	3060	3022
By transport	302	312	287	293	290	288
By households and other cons.	11411	12056	12224	12130	12239	12021
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	6191	6314	6454	6476	6661	6508
Combustible fuels	6106	6217	6341	6325	6458	6285
Hydro	63	63	66	66	64	64
Nuclear	..	..	..	..	..	..
Other	*23	*34	*47	*85	*139	*159
Main activity	5694	5785	5960	5945	6108	6049
Combustible fuels	5608	5688	5847	5794	5905	5826
Hydro	63	63	66	66	64	64
Nuclear	..	..	..	..	..	..
Other	*23	*34	*47	*85	*139	*159
Combustible fuel input	Terajoules					
Gas-diesel oil	*18877	*19823	*13721	*22545	*27825	19322
Fuel oil	166347	168440	171203	143973	148147	129322
Natural gas	*14996	*16705	*15913	16045	*16143	*15390
Bagasse	12657	13251	*13128	*12996	*10298	*11363
Total input	212876	218219	213965	195560	202413	175398
Total production	69209	72683	73203	73418	73885	73182
Estimated efficiency (% of production to input)	33	33	34	38	37	42

Statistics on electricity

Curaçao

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	872	878	884	891	866	879
Combustible fuels	726	737	735	704	614	651
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	146	141	149	188	252	228
Main activity	617	675	724	817	752	836
Combustible fuels	471	534	575	629	500	608
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	146	141	149	188	252	228
Own use in electricity, CHP and heat plants	17	18	18	18	17	18
Net production	855	860	866	874	849	862
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	95	96	97	98	95	96
Consumption	760	764	769	776	754	765
Energy industries own use	71	73	54	40	37	53
By industry and construction	213	209	209	203	183	183
By transport	..	..	..	..	..	..
By households and other cons.	476	482	506	533	533	528
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*272	301	*307	*257	*257	*216
Combustible fuels	*235	262	*262	*200	*200	*159
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*37	39	45	57	57	57
Main activity	*139	155	*161	*173	*173	*183
Combustible fuels	*102	116	*116	*116	*116	*126
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*37	39	45	57	57	57
Combustible fuel input	Terajoules					
Gas-diesel oil	2580	1462	2322	2004	2810	5135
Fuel oil	7555	6222	6262	5363	3649	2091
Total input	10135	7684	8584	7367	6459	7227
Total production	2614	2653	2646	2533	2209	2344
Estimated efficiency (% of production to input)	26	35	31	34	34	32

Statistics on electricity

Cyprus

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	4350	4533	4887	5004	5061	5141
Combustible fuels	4084	4186	4515	4621	4640	4685
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	266	347	372	383	421	457
Main activity	4272	4447	4789	4896	4938	5003
Combustible fuels	4026	4142	4469	4574	4589	4633
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	246	305	320	322	349	370
Own use in electricity, CHP and heat plants	205	219	219	226	233	228
Net production	4145	4314	4668	4778	4827	4914
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	173	215	263	228	158	184
Consumption	3972	4098	4404	4547	4670	4730
Energy industries own use	7	7	5	5	6	7
By industry and construction	463	459	486	518	530	532
By transport	..	..	..	..	..	..
By households and other cons.	3502	3632	3913	4024	4135	4192
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1721	1752	1756	1782	1794	1819
Combustible fuels	1510	1519	1515	1515	1517	1510
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	211	234	242	268	276	309
Main activity	1671	1685	1689	1710	1716	1726
Combustible fuels	1478	1478	1478	1478	1481	1481
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	193	208	212	233	236	246
Combustible fuel input	Terajoules					
Biogas	292	309	312	323	347	345
Gas-diesel oil	5375	3913	6536	11044	10668	11200
Fuel oil	32199	34663	35673	31461	32492	31148
Total input	37866	38885	42521	42828	43507	42693
Total production	14702	15070	16254	16635	16704	16865
Estimated efficiency (% of production to input)	39	39	38	39	38	40

Statistics on electricity
Czechia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	86148	83892	83309	87050	88032	87031
Combustible fuels	50174	51063	53279	52783	52338	50474
Hydro	2961	3071	3202	3040	2679	3175
Nuclear	30325	26841	24104	28340	29921	30246
Other	2688	2917	2724	2888	3093	3136
Main activity	77025	74637	73864	77939	79247	78293
Combustible fuels	41676	42427	44503	44360	44147	42409
Hydro	2397	2505	2604	2429	2185	2600
Nuclear	30325	26841	24104	28340	29921	30246
Other	2627	2864	2653	2810	2994	3038
Own use in electricity, CHP and heat plants	7032	6976	6911	7164	7171	6914
Net production	79116	76916	76398	79886	80861	80116
Imports	11842	16146	13817	15072	11573	11026
Exports	28142	28661	24791	28109	25481	24123
Losses	3847	4067	4080	4375	4269	4300
Consumption	56449	58045	59200	60663	61207	61565
Energy industries own use	3233	3568	3348	3256	3104	3126
By industry and construction	22130	22645	23006	23902	24302	24313
By transport	1559	1609	1636	1698	1753	1754
By households and other cons.	29527	30223	31210	31807	32047	32372
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	21920	21866	21989	22267	22295	22011
Combustible fuels	13032	12960	13087	13334	13350	13031
Hydro	2252	2260	2262	2265	2264	2265
Nuclear	4290	4290	4290	4290	4290	4290
Other	2346	2356	2350	2378	2391	2425
Main activity	20040	19990	20096	20331	20367	20086
Combustible fuels	11342	11275	11385	11582	11605	11290
Hydro	2062	2069	2071	2081	2081	2081
Nuclear	4290	4290	4290	4290	4290	4290
Other	2346	2356	2350	2378	2391	2425
Combustible fuel input	Terajoules					
Hard Coal	85794	95799	96998	81242	63568	44608
Brown Coal	411944	417365	416741	417690	424949	392506
Biogas	19693	19813	18272	18808	18899	18072
Natural gas	24489	28224	38346	36325	36523	50251
Gasworks gas	16999	16474	16658	14892	13502	12354
Coke-oven gas	6328	5278	4717	6613	6199	5634
Blast furnace gas	8716	7840	8150	6694	7565	6343
Fuelwood	*22605	*24479	*25123	*27123	*25876	*28868
Municipal waste	4251	3953	4440	4868	4524	4798
Other recovered gases	1433	1108	1139	1127	1258	1209
Others	2309	2417	1963	2426	2121	2400
Total input	604560	622751	632547	617808	604983	567044
Total production	180626	183827	191804	190019	188417	181706
Estimated efficiency (% of production to input)	30	30	30	31	31	32

Statistics on electricity
Dem. Rep. of the Congo

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	8850	8953	9135	9510	12067	11107
Combustible fuels	30	37	36	28	976	33
Hydro	8820	8916	9099	9482	11064	11045
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	27	29
Main activity	8824	8928	9111	9330	10756	10896
Combustible fuels	4	12	12	6	5	5
Hydro	8820	8916	9099	9324	10724	10861
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	27	29
Own use in electricity, CHP and heat plants	640	647	660	687	1519	1045
Net production	8210	8306	8475	8823	10548	10062
Imports	1138	20	20	668	799	385
Exports	69	422	420	62	70	248
Losses	1895	1260	1216	1443	1291	2142
Consumption	7899	7266	7001	7240	9986	8308
Energy industries own use	..	..	..	17	21	25
By industry and construction	4342	3994	3848	4643	7385	5235
By transport	0	0	0	10	10	11
By households and other cons.	3557	3272	3153	2570	2570	3038
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*2522	*2549	*2677	3120	3179	*3190
Combustible fuels	*106	*120	*135	122	155	*155
Hydro	*2416	*2429	*2542	2998	3005	*3015
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	19	20
Main activity	*2089	*2100	*2110	2539	2578	*2579
Combustible fuels	*90	*100	*110	29	32	*32
Hydro	*1999	*2000	*2000	2510	2527	*2527
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	19	20
Combustible fuel input	Terajoules					
Gas-diesel oil	43	129	129	75	43	64
Natural gas	80	46	14	12	12	..
Fuelwood	*278	*301	*311	*301	..	*344
Vegetal waste	..	..	..	..	4654	..
Total input	*401	*476	*454	*389	4709	*408
Total production	108	133	130	101	3514	118
Estimated efficiency (% of production to input)	27	28	29	26	75	29

Statistics on electricity

Denmark

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	32185	28942	30541	31023	30368	29526
Combustible fuels	18495	14187	16996	15473	15499	12395
Hydro	15	18	19	18	15	17
Nuclear	..	..	..	..	..	..
Other	13675	14737	13526	15531	14855	17113
Main activity	29582	26148	27762	28192	27270	26320
Combustible fuels	16488	11997	14961	13394	13353	10153
Hydro	15	18	19	18	15	17
Nuclear	..	..	..	..	..	..
Other	13079	14133	12782	14780	13902	16150
Own use in electricity, CHP and heat plants	1370	1020	1460	1384	1054	833
Net production	30815	27922	29081	29638	29314	28693
Imports	12702	15645	14976	15218	15634	15982
Exports	9847	9733	9919	10655	10409	10171
Losses	1974	1765	1873	1659	2088	1611
Consumption	31569	31749	31852	32238	32105	32442
Energy industries own use	794	940	950	1223	1250	1250
By industry and construction	8214	8364	8422	8573	8636	8313
By transport	385	397	447	439	440	466
By households and other cons.	22176	22048	22033	22003	21778	22413
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	13624	14002	14226	14318	14984	15166
Combustible fuels	8122	8136	8120	7916	7864	7976
Hydro	9	7	9	7	7	7
Nuclear	..	..	..	..	..	..
Other	5493	5859	6097	6395	7113	7183
Main activity	12401	12605	12756	12782	13345	13494
Combustible fuels	7506	7521	7501	7286	7223	7384
Hydro	9	7	9	7	7	7
Nuclear	..	..	..	..	..	..
Other	4886	5077	5246	5489	6115	6103
Combustible fuel input	Terajoules					
Hard Coal	102110	71432	83290	60485	68271	33500
Biogas	4243	4280	4554	5044	5391	5567
Gas-diesel oil	387	301	301	463	357	614
Fuel oil	1495	1576	1495	1248	1063	844
Refinery gas	1584	1485	1535	1357	1491	1461
Natural gas	23256	20326	24090	21718	21416	21288
Fuelwood	*41155	*39736	*45940	*60444	*59101	*60800
Vegetal waste	0	0	0	0	0	0
Municipal waste	33475	34362	34457	34723	33573	35066
Other liquid biofuels	0	82	27	9	10	0
Others	47	47	47	20	1	..
Total input	207752	173628	195736	185511	190674	159139
Total production	66582	51073	61186	55704	55795	44624
Estimated efficiency (% of production to input)	32	29	31	30	29	28

Statistics on electricity

Djibouti

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	100	178	88	*59	*58	*60
Combustible fuels	100	178	88	*59	*58	*60
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	100	178	88	*59	*58	*60
Combustible fuels	100	178	88	*59	*58	*60
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	100	178	88	*59	*58	*60
Imports	345	314	450	508	526	*530
Exports	..	..	..	..	..	..
Losses	*88	*98	*107	*113	*115	*120
Consumption	*357	*397	*423	*461	*469	*470
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*357	*397	*423	*461	*469	*470
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	130	130	130	130	*130	*130
Combustible fuels	130	130	130	130	*130	*130
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	130	130	130	130	*130	*130
Combustible fuels	130	130	130	130	*130	*130
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	*1032	*1849	*903	*602	*645	*645
Total input	*1032	*1849	*903	*602	*645	*645
Total production	361	640	316	*211	*209	*216
Estimated efficiency (% of production to input)	35	35	35	35	32	33

Statistics on electricity

Dominica

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	148	152	157	131	*110	138
Combustible fuels	117	127	120	103	*85	117
Hydro	31	24	36	27	24	20
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	1	*1
Main activity	103	108	113	87	66	94
Combustible fuels	72	83	75	58	41	73
Hydro	31	24	36	27	24	20
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	1	*1
Own use in electricity, CHP and heat plants	4	5	5	5	4	*5
Net production	144	147	152	126	*106	133
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	8	8	9	5	6	*8
Consumption	*137	*140	*144	*122	*101	*126
Energy industries own use	..	..	..	..	..	..
By industry and construction	*22	*21	*22	*21	*22	*27
By transport	..	..	..	..	..	..
By households and other cons.	*115	*119	*122	*101	*79	*99
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	42	42	42	42	40	40
Combustible fuels	35	35	35	35	35	35
Hydro	7	7	7	7	5	5
Nuclear	..	..	..	..	..	..
Other	0	0	1	1	1	1
Main activity	27	27	28	28	25	25
Combustible fuels	20	20	20	20	20	20
Hydro	7	7	7	7	5	5
Nuclear	..	..	..	..	..	..
Other	0	0	1	1	1	1
Combustible fuel input	Terajoules					
Gas-diesel oil	*824	*809	*831	*691	*464	*773
Fuel oil	*525	*570	*543	*489	*500	*502
Total input	*1349	*1379	*1374	*1180	*964	*1276
Total production	420	456	430	369	*307	422
Estimated efficiency (% of production to input)	31	33	31	31	32	33

Statistics on electricity
Dominican Republic

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	17167	17922	18690	19036	19651	19857
Combustible fuels	15634	16654	16773	16309	17144	18121
Hydro	1271	945	1519	2196	1780	928
Nuclear	..	..	..	..	..	..
Other	262	322	398	530	728	807
Main activity	15164	15948	16728	17117	17640	16345
Combustible fuels	13654	14718	14869	14489	15288	14774
Hydro	1267	940	1513	2190	1773	928
Nuclear	..	..	..	..	..	..
Other	243	290	347	438	580	643
Own use in electricity, CHP and heat plants	665	673	687	665	693	700
Net production	16502	17249	18003	18371	18958	19157
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	2181	2297	2412	2473	2549	2576
Consumption	14321	14952	15591	15887	16409	18196
Energy industries own use	..	..	..	..	..	..
By industry and construction	4518	5029	5294	5612	5789	6420
By transport	52	54	54	51	57	63
By households and other cons.	9750	9870	10244	10224	10563	11713
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	5417	5228	5202	5132	5275	6194
Combustible fuels	4702	4503	4382	4276	4271	4995
Hydro	617	617	617	617	617	625
Nuclear	..	..	..	..	..	..
Other	98	108	203	238	387	574
Main activity	3877	3710	3809	3838	3969	4822
Combustible fuels	3175	3009	3028	3057	3082	3740
Hydro	616	616	616	616	616	623
Nuclear	..	..	..	..	..	..
Other	85	85	165	165	271	458
Combustible fuel input	Terajoules					
Hard Coal	25738	24415	25026	26458	25143	27675
Biogas	*98	*137	*157	*157	*157	*157
Motor gasoline	647	656	660	647	638	600
Gas-diesel oil	17311	20160	19774	13077	15240	14041
Fuel oil	55667	64644	67117	55756	69764	73595
Natural gas	35750	36429	34241	40211	39774	45163
Bagasse	657	657	755	1958	2640	3288
Vegetal waste	128	129	134	142	151	*150
Total input	135996	147226	147863	138406	153507	164669
Total production	56283	59956	60384	58714	61717	65236
Estimated efficiency (% of production to input)	41	41	41	42	40	40

Statistics on electricity

Ecuador

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	24307	25950	27314	28033	29198	32267
Combustible fuels	12753	12719	11357	7833	8402	7479
Hydro	11458	13096	15834	20089	20678	24664
Nuclear	..	..	..	..	..	..
Other	96	135	123	111	118	123
Main activity	20476	21756	22543	22891	23613	26247
Combustible fuels	9445	9223	7316	3772	4191	3137
Hydro	10935	12399	15104	19008	19304	22987
Nuclear	..	..	..	..	..	..
Other	96	135	123	111	118	123
Own use in electricity, CHP and heat plants	528	522	456	383	369	363
Net production	23779	25428	26858	27650	28829	31904
Imports	837	512	82	19	106	6
Exports	47	46	402	212	256	1827
Losses	3165	3344	3499	3516	3783	4278
Consumption	21403	22549	23038	23972	24908	25289
Energy industries own use	..	..	..	..	..	..
By industry and construction	8419	8580	8919	9469	10559	10385
By transport	10	10	10	10	11	11
By households and other cons.	12974	13960	14109	14493	14339	14893
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	6165	6545	8697	8644	9365	9418
Combustible fuels	3801	3969	4105	3934	4054	4096
Hydro	2316	2529	4545	4663	5264	5274
Nuclear	..	..	..	..	..	..
Other	48	47	47	47	48	48
Main activity	5299	5557	7607	7435	8048	8073
Combustible fuels	3011	3109	3142	2902	2964	2978
Hydro	2241	2402	4418	4486	5036	5047
Nuclear	..	..	..	..	..	..
Other	48	47	47	47	48	48
Combustible fuel input	Terajoules					
Biogas	342	479	282	567	925	925
Crude oil	10680	10408	13559	14061	15659	16505
Motor gasoline	0	..	..	..	..	..
Gas-diesel oil	25709	29423	25669	14995	15622	17483
Fuel oil	52566	47857	35453	19477	28707	15853
Liquefied petroleum gas	587	676	770	657	763	609
Other oil products	5165	8377	7067	4056	3970	2168
Natural gas	26224	25306	25757	23151	19889	17775
Bagasse	3185	3481	3797	4466	3951	2992
Total input	124459	126007	112354	81430	89486	74310
Total production	45911	45789	40886	28198	30246	26925
Estimated efficiency (% of production to input)	37	36	36	35	34	36

Statistics on electricity
Egypt

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	173552	180377	191920	195150	202838	194279
Combustible fuels	158039	165347	176234	179520	187341	175998
Hydro	13822	13432	13460	12850	12726	13121
Nuclear	..	..	..	..	..	..
Other	1691	1598	2226	2780	2771	5160
Main activity	168050	174875	186320	189550	196760	182725
Combustible fuels	152537	159845	170634	173920	181263	164444
Hydro	13822	13432	13460	12850	12726	13121
Nuclear	..	..	..	..	..	..
Other	1691	1598	2226	2780	2771	5160
Own use in electricity, CHP and heat plants	4582	4738	4068	17903	12156	6386
Net production	168970	175639	187852	177247	190682	187893
Imports	51	43	54	65	81	74
Exports	730	1158	747	333	425	360
Losses	20724	20389	23037	*25373	22056	33623
Consumption	146645	154205	162275	151606	165610	156340
Energy industries own use	..	..	..	..	..	..
By industry and construction	38242	39187	40316	41479	43623	46884
By transport	515	601	582	534	321	530
By households and other cons.	107888	114417	121377	109593	121666	108925
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	34063	37268	40905	47056	56574	58353
Combustible fuels	30576	33781	37218	43369	52585	53394
Hydro	2800	2800	2800	2800	2832	2832
Nuclear	..	..	..	..	..	..
Other	687	687	887	887	1157	2127
Main activity	32015	35220	38857	45008	54526	56305
Combustible fuels	28528	31733	35170	41321	50537	51346
Hydro	2800	2800	2800	2800	2832	2832
Nuclear	..	..	..	..	..	..
Other	687	687	887	887	1157	2127
Combustible fuel input	Terajoules					
Gas-diesel oil	19479	50654	23779	24024	8729	2330
Fuel oil	348612	361903	294152	243208	228826	276934
Natural gas	1023897	1067300	1182860	1312666	1303341	1504109
Bagasse	*5776	*5722	*5668	*5668	*5730	*5753
Total input	1397764	1485579	1506459	1585567	1546625	1789127
Total production	568940	595249	634442	646272	674428	633594
Estimated efficiency (% of production to input)	41	40	42	41	44	35

Statistics on electricity

El Salvador

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	6263	6065	6083	5615	5402	6071
Combustible fuels	2913	3095	3139	2077	1937	2582
Hydro	1793	1423	1344	1704	1631	1526
Nuclear	..	..	..	..	..	..
Other	1558	1547	1600	1834	1835	1963
Main activity	5784	5425	5342	4682	4422	4891
Combustible fuels	2508	2532	2505	1399	1200	1756
Hydro	1718	1353	1261	1619	1548	1445
Nuclear	..	..	..	..	..	..
Other	1558	1540	1576	1664	1675	1690
Own use in electricity, CHP and heat plants	144	233	238	356	164	163
Net production	6119	5832	5846	5259	5238	5908
Imports	589	963	1066	1675	1824	1450
Exports	208	64	77	90	65	158
Losses	*504	*708	*695	*651	*719	*796
Consumption	5950	5999	6073	6153	6221	6343
Energy industries own use	..	..	..	..	..	..
By industry and construction	2104	2005	2020	2057	2147	2234
By transport	..	..	..	..	..	..
By households and other cons.	3846	3994	4053	4096	4074	4109
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*1587	*1678	*1748	1943	2025	2263
Combustible fuels	*893	*966	*1037	1055	1079	1079
Hydro	490	497	495	574	575	574
Nuclear	..	..	..	..	..	..
Other	204	215	216	314	371	611
Main activity	*1447	*1434	*1434	1580	1574	1708
Combustible fuels	*770	*757	*757	764	757	757
Hydro	473	473	473	552	553	553
Nuclear	..	..	..	..	..	..
Other	204	204	204	264	264	398
Combustible fuel input	Terajoules					
Biogas	412	589	531	510	495	570
Gas-diesel oil	..	..	..	..	43	10
Fuel oil	21372	21331	20685	11554	10019	13616
Bagasse	7637	9876	11424	14073	14053	14927
Total input	29421	31796	32640	26137	24610	29123
Total production	10487	11142	11299	7476	6972	9294
Estimated efficiency (% of production to input)	36	35	35	29	28	32

Statistics on electricity

Equatorial Guinea

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	833	848	*850	*850	*736	*750
Combustible fuels	633	648	*650	*650	*536	*550
Hydro	*200	*200	*200	*200	*200	*200
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	833	848	*850	*850	*736	*750
Combustible fuels	633	648	*650	*650	*536	*550
Hydro	*200	*200	*200	*200	*200	*200
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	833	848	*850	*850	*736	*750
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*90	*95	*96	*96	*75	*80
Consumption	*743	*753	*754	*754	*661	*670
Energy industries own use	*35	*35	*35	*35	*35	*35
By industry and construction	*190	*210	*231	*231	*201	*205
By transport	..	..	..	..	..	..
By households and other cons.	*518	*508	*488	*488	*425	*430
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	349	349	349	554	*554	*554
Combustible fuels	222	222	222	222	*222	*222
Hydro	127	127	127	327	*327	*327
Nuclear	..	..	..	..	..	..
Other	..	..	..	5	*5	*5
Main activity	349	349	349	554	*554	*554
Combustible fuels	222	222	222	222	*222	*222
Hydro	127	127	127	327	*327	*327
Nuclear	..	..	..	..	..	..
Other	..	..	..	5	*5	*5
Combustible fuel input	Terajoules					
Gas-diesel oil	*86	*86	*86	*86	*86	*86
Natural gas	*5700	*5900	*5900	*6000	*6000	*5500
Total input	*5786	*5986	*5986	*6086	*6086	*5586
Total production	2279	2334	*2340	*2340	*1930	*1980
Estimated efficiency (% of production to input)	39	39	39	38	32	35

Statistics on electricity

Eritrea

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	392	409	423	444	467	483
Combustible fuels	383	400	414	430	445	459
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	9	9	9	13	22	24
Main activity	381	398	412	430	452	468
Combustible fuels	372	389	403	416	430	443
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	9	9	9	13	22	24
Own use in electricity, CHP and heat plants	17	19	20	21	22	23
Net production	375	390	403	423	445	461
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	49	51	53	56	59	61
Consumption	320	332	343	360	379	392
Energy industries own use	..	..	..	..	..	..
By industry and construction	79	82	85	89	94	97
By transport	..	..	..	..	..	..
By households and other cons.	241	250	258	271	285	295
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*141	*161	*161	*216	*226	*226
Combustible fuels	*139	*159	*159	*205	*205	*205
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	2	*11	*21	*21
Main activity	*135	*151	*151	*206	*216	*216
Combustible fuels	*133	*149	*149	*195	*195	*195
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	2	*11	*21	*21
Combustible fuel input	Terajoules					
Gas-diesel oil	1505	1548	1591	2003	2232	2302
Fuel oil	2424	2464	2505	2330	3006	3100
Total input	3929	4012	4096	4334	5238	5402
Total production	1379	1440	1490	1549	1603	1654
Estimated efficiency (% of production to input)	35	36	36	36	31	31

Statistics on electricity

Estonia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	12446	10149	12171	13160	12364	7616
Combustible fuels	11815	9407	11532	12397	11682	6836
Hydro	27	27	35	26	15	19
Nuclear	..	..	..	..	..	..
Other	604	715	604	737	667	761
Main activity	12389	9959	11913	12997	12241	7521
Combustible fuels	11773	9231	11287	12233	11560	6745
Hydro	26	27	35	26	15	18
Nuclear	..	..	..	..	..	..
Other	590	701	591	737	666	759
Own use in electricity, CHP and heat plants	1433	1087	1737	1912	1431	1015
Net production	11013	9062	10434	11248	10933	6600
Imports	3730	5452	3577	2281	3053	4861
Exports	6484	6377	5614	5015	4950	2704
Losses	842	697	723	779	744	500
Consumption	7417	7440	7824	7735	7985	7787
Energy industries own use	511	588	525	503	494	470
By industry and construction	2117	2059	2152	2281	2360	2132
By transport	50	47	48	46	43	56
By households and other cons.	4739	4746	5099	4905	5088	5129
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	3030	2857	2577	2542	2819	2746
Combustible fuels	2750	2551	2251	2208	2470	2303
Hydro	5	6	6	7	7	6
Nuclear	..	..	..	..	..	..
Other	275	300	320	327	342	437
Main activity	3006	2826	2546	2515	2793	2722
Combustible fuels	2733	2526	2226	2183	2445	2280
Hydro	5	6	6	7	7	6
Nuclear	..	..	..	..	..	..
Other	268	294	314	325	341	436
Combustible fuel input	Terajoules					
Peat	690	759	1090	1258	553	283
Biogas	191	367	233	214	242	228
Oil shale	129157	108702	105702	107363	114688	52646
Fuel oil	485	687	1656	1256	885	319
Natural gas	564	526	575	527	615	380
Gasworks gas	5228	2171	2596	2547	2054	3093
Coke-oven gas	..	4158	4692	9850	8301	10480
Fuelwood	*9940	*10240	*10114	*11904	*18039	*20760
Municipal waste	1455	1904	2354	1666	2086	2074
Industrial waste	..	..	0	338	259	..
Others	54	0	..	88	..	..
Total input	147764	129514	129013	137012	147723	90263
Total production	42534	33865	41515	44629	42057	24610
Estimated efficiency (% of production to input)	29	26	32	33	28	27

Statistics on electricity

Eswatini

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	569	*509	408	414	519	584
Combustible fuels	267	*278	284	297	311	313
Hydro	302	231	123	117	208	269
Nuclear	..	..	..	..	..	..
Other	..	..	..	0	0	2
Main activity	302	231	123	117	208	271
Combustible fuels	..	..	..	..	..	..
Hydro	302	231	123	117	208	269
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	2
Own use in electricity, CHP and heat plants	2	*23	50	0	0	0
Net production	567	*486	357	414	519	584
Imports	860	980	1077	1048	1020	947
Exports	..	..	..	..	..	..
Losses	171	181	172	169	195	182
Consumption	1256	1296	1262	1387	1323	1343
Energy industries own use	..	..	..	..	..	..
By industry and construction	336	366	364	541	433	400
By transport	..	..	..	..	..	..
By households and other cons.	920	930	899	846	890	944
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*188	*188	*188	*188	192	193
Combustible fuels	*115	*115	*115	*115	119	119
Hydro	73	*73	73	*73	*73	*73
Nuclear	..	..	..	..	..	..
Other	..	..	..	0	0	1
Main activity	79	*79	79	*79	*79	*79
Combustible fuels	10	10	10	*10	*10	*10
Hydro	69	*69	69	*69	*69	*69
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	1
Combustible fuel input	Terajoules					
Hard Coal	*32	387	619	422	454	867
Gas-diesel oil	0	0	..	..	..	..
Fuelwood	*2567	*2649	*2649	..	..	..
Bagasse	*1141	1177	1177	2400	2439	2643
Total input	*3740	*4214	*4446	2822	2893	3509
Total production	960	*999	1024	1069	1120	1126
Estimated efficiency (% of production to input)	26	24	23	38	39	32

Statistics on electricity
Ethiopia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	9562	10485	12588	13268	14242	15149
Combustible fuels	34	34	32	32	34	35
Hydro	9013	9674	11753	12681	13655	14564
Nuclear	..	..	..	..	..	..
Other	515	777	803	555	553	550
Main activity	9531	10455	12560	13240	14213	15119
Combustible fuels	3	4	4	4	5	5
Hydro	9013	9674	11753	12681	13655	14564
Nuclear	..	..	..	..	..	..
Other	515	777	803	555	553	550
Own use in electricity, CHP and heat plants	41	68	78	48	74	74
Net production	9521	10417	12510	13220	14168	15075
Imports	..	..	..	..	..	..
Exports	761	700	1303	1432	1000	1000
Losses	2149	2085	2597	2945	3171	3374
Consumption	6660	7470	8586	8856	10558	10995
Energy industries own use	..	..	..	..	..	..
By industry and construction	2556	2278	2141	2346	2837	3072
By transport	..	..	..	..	..	..
By households and other cons.	4104	5192	6445	6510	7721	7923
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2357	2461	4289	4298	4297	4300
Combustible fuels	227	180	136	141	141	141
Hydro	1943	1940	3808	3814	3814	3817
Nuclear	..	..	..	..	..	..
Other	187	341	345	343	342	342
Main activity	2320	2424	4252	4261	4260	4263
Combustible fuels	190	143	99	104	104	104
Hydro	1943	1940	3808	3814	3814	3817
Nuclear	..	..	..	..	..	..
Other	187	341	345	343	342	342
Combustible fuel input	Terajoules					
Gas-diesel oil	43	43	43	43	43	55
Naphtha	45	..	..	..	..	..
Bagasse	*556	*541	*502	*517	*533	*541
Total input	*643	*584	*545	*560	*576	*595
Total production	122	122	115	115	122	126
Estimated efficiency (% of production to input)	19	21	21	21	21	21

Statistics on electricity
Faeroe Islands

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	305	314	317	334	352	386
Combustible fuels	150	126	159	163	180	230
Hydro	121	133	106	111	108	104
Nuclear	..	..	..	..	..	..
Other	34	56	52	60	64	53
Main activity	305	314	317	334	352	386
Combustible fuels	150	126	159	163	180	230
Hydro	121	133	106	111	108	104
Nuclear	..	..	..	..	..	..
Other	34	56	52	60	64	53
Own use in electricity, CHP and heat plants	7	7	7	10	11	12
Net production	298	308	310	325	341	374
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*15	*20	*19	*18	*20	*23
Consumption	284	288	291	306	321	350
Energy industries own use	..	..	..	..	..	..
By industry and construction	76	76	74	86	82	95
By transport	..	..	..	..	..	..
By households and other cons.	208	212	218	221	238	255
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*124	*128	120	121	121	131
Combustible fuels	*68	*69	67	69	69	78
Hydro	*39	39	38	38	38	38
Nuclear	..	..	..	..	..	..
Other	*16	20	14	14	14	14
Main activity	*124	*128	120	121	121	131
Combustible fuels	*68	*69	67	69	69	78
Hydro	*39	39	38	38	38	38
Nuclear	..	..	..	..	..	..
Other	*16	20	14	14	14	14
Combustible fuel input	Terajoules					
Gas-diesel oil	50	56	80	46	64	187
Fuel oil	1248	1040	1301	1318	1453	1787
Total input	1298	1096	1381	1364	1517	1974
Total production	541	452	572	588	648	828
Estimated efficiency (% of production to input)	42	41	41	43	43	42

Statistics on electricity

Falkland Is. (Malvinas)

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	18	19	21	20	19	20
Combustible fuels	13	14	15	14	14	14
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	5	5	6	5	6	5
Main activity	16	17	19	18	17	18
Combustible fuels	11	12	13	12	12	12
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	5	5	6	5	6	5
Own use in electricity, CHP and heat plants	*1	*1	*3	*2	*2	2
Net production	18	18	18	18	18	18
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	..	..	..	..	..	..
Consumption	*18	*18	*18	*18	*18	*18
Energy industries own use	..	..	..	..	..	..
By industry and construction	*7	*7	*7	*7	*7	*7
By transport	..	..	..	..	..	..
By households and other cons.	*10	*10	*10	*10	*10	*10
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	11	11	11	11	11	11
Combustible fuels	9	9	9	9	9	9
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	2	2	2	2
Main activity	9	9	9	9	9	9
Combustible fuels	7	7	7	7	7	7
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	2	2	2	2
Combustible fuel input	Terajoules					
Gas-diesel oil	111	125	118	114	122	125
Total input	111	125	118	114	122	125
Total production	47	49	53	52	50	51
Estimated efficiency (% of production to input)	42	39	45	45	41	41

Statistics on electricity

Fiji

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	894	919	941	1017	1045	1074
Combustible fuels	487	503	435	514	464	498
Hydro	401	406	495	491	567	559
Nuclear	..	..	..	..	..	..
Other	7	10	11	11	15	16
Main activity	862	896	931	994	1005	1025
Combustible fuels	454	480	425	491	424	450
Hydro	401	406	495	491	567	559
Nuclear	..	..	..	..	..	..
Other	7	10	11	11	15	16
Own use in electricity, CHP and heat plants	10	8	11	12	12	13
Net production	884	911	930	1005	1033	1061
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*90	75	*88	*103	*108	*111
Consumption	783	826	842	902	925	950
Energy industries own use	..	..	..	..	..	..
By industry and construction	200	206	211	222	226	227
By transport	..	..	..	..	..	..
By households and other cons.	583	620	631	681	699	723
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	303	304	*328	*360	*363	*363
Combustible fuels	156	156	*172	*194	*194	*194
Hydro	135	135	130	138	138	138
Nuclear	..	..	..	..	..	..
Other	12	14	26	*28	*31	*31
Main activity	261	263	286	*306	*309	*309
Combustible fuels	114	114	*130	*140	*140	*140
Hydro	135	135	130	138	138	138
Nuclear	..	..	..	..	..	..
Other	12	14	26	*28	*31	*31
Combustible fuel input	Terajoules					
Hard coal briquettes	0	0	0	0	..	..
Gas-diesel oil	2775	2774	1434	*2021	*1739	*1935
Fuel oil	1535	1758	2511	*2424	*2222	*2222
Fuelwood	*18	*18	*18	*18	*18	*18
Bagasse	*386	*193	*93	*193	*386	*425
Total input	4715	4743	4056	*4656	*4365	*4600
Total production	1752	1810	1566	1852	1669	1794
Estimated efficiency (% of production to input)	37	38	39	40	38	39

Statistics on electricity

Finland

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	68094	68599	68757	67524	70263	68642
Combustible fuels	29712	25999	26399	25031	27959	25923
Hydro	13397	16769	15799	14772	13301	12413
Nuclear	23580	23245	23203	22477	22793	23870
Other	1405	2586	3356	5245	6210	6436
Main activity	58000	58575	59239	57691	59552	57830
Combustible fuels	20735	17226	18122	16460	18484	16210
Hydro	12470	15690	14764	13769	12357	11661
Nuclear	23580	23245	23203	22477	22793	23870
Other	1215	2414	3150	4985	5918	6089
Own use in electricity, CHP and heat plants	2636	2444	2554	2481	2730	2597
Net production	65458	66155	66203	65043	67533	66045
Imports	21622	21459	22110	22204	22548	23938
Exports	3655	5122	3159	1779	2612	3896
Losses	2766	2435	2586	2768	3024	2716
Consumption	80435	79686	82180	82275	84021	82980
Energy industries own use	1284	1189	1227	1236	1252	1330
By industry and construction	38173	37893	38503	38709	39487	38890
By transport	724	706	708	775	843	859
By households and other cons.	40254	39898	41742	41555	42439	41901
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	16247	16616	16289	17174	17154	17472
Combustible fuels	9609	9593	8672	8997	8902	8899
Hydro	3248	3249	3249	3272	3287	3273
Nuclear	2752	2752	2764	2779	2784	2794
Other	638	1022	1604	2126	2181	2506
Main activity	14176	14564	14221	14868	14790	15010
Combustible fuels	7735	7743	6826	6958	6864	6864
Hydro	3062	3063	3063	3084	3098	3065
Nuclear	2752	2752	2764	2779	2784	2794
Other	627	1006	1568	2047	2044	2287
Combustible fuel input	Terajoules					
Hard Coal	83563	59016	78495	68510	66280	51236
Peat	43898	40652	38934	37002	43281	38952
Biogas	2800	3000	3361	3500	3600	3236
Fuel oil	2707	2949	1576	3757	1252	1333
Natural gas	46749	42836	33907	31361	38536	34502
Blast furnace gas	5597	5302	5234	5407	5989	4074
Fuelwood	*93962	*90537	*94823	*95514	*97021	*97080
Municipal waste	13568	14985	16759	18058	19776	18876
Industrial waste	1083	893	840	1033	986	882
Black liquor	*13943	*11248	*7397	*7854	*9808	*8964
Others	2500	2306	1796	2734	2838	3094
Total input	310371	273724	283122	274730	289367	262228
Total production	106963	93596	95036	90110	100651	93323
Estimated efficiency (% of production to input)	34	34	34	33	35	36

Statistics on electricity

France

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	572713	579591	564051	561942	581785	570845
Combustible fuels	41671	51181	63968	72878	57647	62148
Hydro	69571	60514	65686	55135	70472	61573
Nuclear	436479	437428	403195	398359	412942	399012
Other	24992	30468	31202	35570	40725	48113
Main activity	556539	562742	547857	545077	560965	548483
Combustible fuels	28814	37776	51211	59858	41204	44590
Hydro	68904	59977	65091	54608	69863	60978
Nuclear	436479	437428	403195	398359	412942	399012
Other	22342	27561	28360	32252	36956	43904
Own use in electricity, CHP and heat plants	23851	24294	23632	24093	23988	23870
Net production	548862	555297	540419	537849	557798	546975
Imports	7873	9961	19903	21119	13512	15632
Exports	75063	74024	61404	61248	76479	73299
Losses	34527	36140	37478	38599	38620	38112
Consumption	441467	449871	458011	454565	453173	447085
Energy industries own use	16064	14838	15268	15199	16071	15137
By industry and construction	117114	115908	117707	116738	116923	115524
By transport	10546	10702	10520	10580	10090	10081
By households and other cons.	297743	308423	314516	312048	310089	306342
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	130098	132220	133151	133089	135104	136242
Combustible fuels	25918	25867	24895	21907	21422	19791
Hydro	25577	25552	25621	25707	25727	25869
Nuclear	63130	63130	63130	63130	63130	63130
Other	15473	17671	19505	22345	24825	27452
Main activity	124196	126193	126837	126622	127404	128036
Combustible fuels	22180	22162	21065	18204	16836	15066
Hydro	25398	25368	25435	25517	25542	25674
Nuclear	63130	63130	63130	63130	63130	63130
Other	13488	15533	17207	19770	21896	24166
Combustible fuel input	Terajoules					
Hard Coal	124370	122392	108613	132117	87707	42799
Biogas	20839	23472	24193	24387	25931	27679
Gas-diesel oil	16813	18017	18748	19137	14409	17583
Fuel oil	35229	35390	36481	36653	29919	29621
Natural gas	117532	178404	270476	308539	237065	304337
Blast furnace gas	24117	22150	16741	18007	25747	25062
Fuelwood	*30784	*33393	*44090	*45985	*50107	*49538
Municipal waste	91654	86958	89572	90187	91207	90760
Industrial waste	2673	4140	3869	3329	3254	3672
Black liquor	*15434	*18694	*18196	*16004	*13552	*15817
Others	27355	22860	23403	23627	6420	4059
Total input	506799	565870	654383	717971	585317	610926
Total production	150016	184252	230285	262362	207528	223732
Estimated efficiency (% of production to input)	30	33	35	37	35	37

Statistics on electricity

French Polynesia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	675	676	691	681	676	693
Combustible fuels	483	478	475	470	475	494
Hydro	165	166	183	175	164	159
Nuclear	..	..	..	..	..	..
Other	27	32	33	36	37	40
Main activity	675	676	691	681	676	693
Combustible fuels	483	478	475	470	475	494
Hydro	165	166	183	175	164	159
Nuclear	..	..	..	..	..	..
Other	27	32	33	36	37	40
Own use in electricity, CHP and heat plants	10	0	0	0	0	0
Net production	665	676	691	681	676	692
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	70	51	51	43	42	41
Consumption	*595	626	639	638	634	652
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*595	626	639	638	634	652
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*249	246	258	268	271	277
Combustible fuels	*177	177	185	185	186	186
Hydro	47	47	47	47	47	49
Nuclear	..	..	..	..	..	..
Other	25	23	27	36	38	41
Main activity	*249	246	258	268	271	277
Combustible fuels	*177	177	185	185	186	186
Hydro	47	47	47	47	47	49
Nuclear	..	..	..	..	..	..
Other	25	23	27	36	38	41
Combustible fuel input	Terajoules					
Gas-diesel oil	*1760	1535	1598	1675	1562	1605
Fuel oil	2779	2855	2694	2673	2782	2773
Total input	4539	4390	4292	4349	4344	4378
Total production	1739	1722	1709	1692	1712	1777
Estimated efficiency (% of production to input)	38	39	40	39	39	41

Statistics on electricity

Gabon

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1998	2127	2338	2278	2280	2284
Combustible fuels	1202	1207	1383	1347	1297	1301
Hydro	794	918	953	929	981	981
Nuclear	..	..	..	..	..	..
Other	2	2	2	2	2	2
Main activity	1784	1907	2112	2039	2050	2058
Combustible fuels	990	989	1159	1115	1075	1083
Hydro	794	918	953	924	975	975
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	99	95	102	102	96	101
Net production	1899	2032	2236	2176	2184	2183
Imports	388	337	344	456	511	511
Exports	..	..	..	..	..	..
Losses	452	476	518	431	454	389
Consumption	1835	1893	2062	2201	2240	2305
Energy industries own use	40	41	45	46	47	47
By industry and construction	487	502	547	648	653	675
By transport	7	7	8	8	8	8
By households and other cons.	1301	1343	1462	1499	1532	1574
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	509	511	523	533	751	*784
Combustible fuels	338	340	352	359	418	*451
Hydro	170	170	170	173	332	332
Nuclear	..	..	..	..	..	..
Other	*1	*1	*1	*1	*1	*1
Main activity	438	440	452	460	663	*696
Combustible fuels	268	270	282	289	333	*366
Hydro	170	170	170	171	330	330
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	2580	2709	2666	2904	2656	2095
Fuel oil	81	..	..	..	..	..
Natural gas	12147	13265	15031	15253	14848	15523
Fuelwood	*301	*320	332	334	*336	*348
Total input	15109	16294	18029	18491	17840	17967
Total production	4327	4345	4979	4849	4670	4685
Estimated efficiency (% of production to input)	29	27	28	26	26	26

Statistics on electricity

Gambia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	258	286	302	317	*321	*325
Combustible fuels	254	283	299	314	*318	*321
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*4	*4	*4	*4	*4	*4
Main activity	222	250	265	280	*284	*287
Combustible fuels	219	246	262	277	*280	*283
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*4	*4	*4	*4	*4	*4
Own use in electricity, CHP and heat plants	*11	*11	*11	*12	*13	*13
Net production	247	275	291	305	*309	*312
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*52	*55	*58	*68	*69	*70
Consumption	*195	*220	*233	*237	*239	*242
Energy industries own use	..	..	..	..	..	..
By industry and construction	*35	*37	*39	*40	*41	*41
By transport	..	..	..	..	..	..
By households and other cons.	*160	*183	*193	*197	*199	*201
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	117	*120	*121	*121	*126	*137
Combustible fuels	114	*116	*117	*118	*123	*134
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	3	3	3	3	*3	*3
Main activity	83	*85	*86	*86	*90	*101
Combustible fuels	80	*81	*82	*82	*87	*98
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	3	3	3	3	*3	*3
Combustible fuel input	Terajoules					
Gas-diesel oil	*2146	*2417	*2507	*2593	*2627	*2653
Fuel oil	*889	*889	*889	*929	*941	*949
Total input	*3035	*3305	*3396	*3522	*3569	*3603
Total production	915	1018	1075	1129	*1144	*1156
Estimated efficiency (% of production to input)	30	31	32	32	32	32

Statistics on electricity

Georgia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	10371	10833	11574	11531	12149	11857
Combustible fuels	2036	2379	2236	2233	2115	2840
Hydro	8335	8454	9329	9210	9949	8932
Nuclear	..	..	..	..	..	..
Other	..	..	9	88	84	85
Main activity	10371	10833	11574	11531	12149	11857
Combustible fuels	2036	2379	2236	2233	2115	2840
Hydro	8335	8454	9329	9210	9949	8932
Nuclear	..	..	..	..	..	..
Other	..	..	9	88	84	85
Own use in electricity, CHP and heat plants	217	240	209	215	215	236
Net production	10154	10592	11365	11316	11934	11620
Imports	853	699	1329	1751	1522	1763
Exports	604	660	1409	940	602	380
Losses	600	711	784	904	886	918
Consumption	9801	9921	10501	11224	11950	12085
Energy industries own use	17	14	14	15	13	26
By industry and construction	2816	2752	2902	3295	3306	3253
By transport	267	294	301	337	366	419
By households and other cons.	6701	6861	7284	7578	8266	8388
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2995	2993	3299	3592	3591	3712
Combustible fuels	615	615	849	849	876	1108
Hydro	2380	2378	2430	2723	2695	2583
Nuclear	..	..	..	..	..	..
Other	..	..	20	20	20	21
Main activity	2995	2993	3299	3592	3591	3712
Combustible fuels	615	615	849	849	876	1108
Hydro	2380	2378	2430	2723	2695	2583
Nuclear	..	..	..	..	..	..
Other	..	..	20	20	20	21
Combustible fuel input	Terajoules					
Brown Coal	..	..	451	634	359	0
Gas-diesel oil	0	0	0	..	..	..
Natural gas	21963	24976	20080	20408	19304	26653
Total input	21963	24976	20530	21042	19662	26653
Total production	7330	8563	8048	8039	7614	10225
Estimated efficiency (% of production to input)	33	34	39	38	39	38

Statistics on electricity

Germany

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	627806	648310	650450	653723	642900	609065
Combustible fuels	408559	410318	419596	404286	385552	334353
Hydro	25444	24898	26135	26155	23863	25671
Nuclear	97129	91786	84634	76324	76005	75071
Other	96674	121308	120085	146958	157480	173970
Main activity	582357	598096	595587	596946	587943	555729
Combustible fuels	364685	361485	366199	348797	331767	282035
Hydro	25282	24741	25959	25983	23776	25573
Nuclear	97129	91786	84634	76324	76005	75071
Other	95261	120084	118795	145842	156395	173050
Own use in electricity, CHP and heat plants	36933	38018	36717	34670	33988	30202
Net production	590873	610292	613733	619053	608912	578863
Imports	40435	37008	28338	27842	31727	40126
Exports	74320	85290	78863	80301	80463	72793
Losses	24159	25605	25759	27024	26661	27474
Consumption	532829	536405	537449	539570	533516	518722
Energy industries own use	21072	21457	20494	20617	20860	19208
By industry and construction	232862	228825	230574	232227	230527	223448
By transport	11523	11148	11739	11957	12087	11605
By households and other cons.	267372	274975	274642	274769	270042	264461
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	197506	203257	208217	215326	228795	231821
Combustible fuels	97203	96967	95716	95134	103030	101389
Hydro	11234	11255	11207	11120	10684	10733
Nuclear	12074	10799	10799	10799	10799	9525
Other	76995	84236	90495	98273	104282	110174
Main activity	187699	192539	197629	203747	216807	219787
Combustible fuels	87747	86552	85409	83824	91301	89570
Hydro	11190	11212	11164	11078	10652	10698
Nuclear	12074	10799	10799	10799	10799	9525
Other	76688	83976	90257	98046	104055	109994
Combustible fuel input	Terajoules					
Hard Coal	1162815	1127187	1090750	875477	801479	600098
Brown Coal	1468554	1460006	1411719	1394434	1354287	1064141
Lignite briquettes	18068	19628	18666	15754	17253	15279
Biogas	224008	235765	238590	238280	237255	236517
Other oil products	22110	26452	21507	21467	18974	17688
Natural gas	554407	555457	707551	749713	720855	780525
Coke-oven gas	17522	22759	24647	27371	27192	24384
Blast furnace gas	69845	69659	73166	71768	66613	63736
Fuelwood	*125897	*127292	*121485	*119451	*125757	*126409
Municipal waste	189580	179782	194092	196030	186036	182412
Others	61360	60340	63641	63472	51893	54515
Total input	3914165	3884326	3965815	3773217	3607594	3165705
Total production	1470812	1477145	1510546	1455430	1387987	1203671
Estimated efficiency (% of production to input)	38	38	38	39	38	38

Statistics on electricity
Ghana

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	13143	11672	13203	14248	16425	18368
Combustible fuels	4752	5824	7615	8604	10375	11065
Hydro	8387	5845	5561	5616	6017	7252
Nuclear	..	..	..	..	..	..
Other	4	3	27	28	33	52
Main activity	12963	11492	13023	14068	16245	18188
Combustible fuels	4572	5644	7435	8424	10195	10885
Hydro	8387	5845	5561	5616	6017	7252
Nuclear	..	..	..	..	..	..
Other	4	3	27	28	33	52
Own use in electricity, CHP and heat plants	58	38	180	181	179	180
Net production	13085	11634	13023	14067	16246	18188
Imports	51	223	745	320	140	127
Exports	522	587	187	268	740	1430
Losses	1739	613	876	805	1192	1184
Consumption	10694	10625	12528	13037	14401	15232
Energy industries own use	..	..	..	..	..	..
By industry and construction	3262	4185	4612	4583	5029	5260
By transport	4	5	7	8	9	11
By households and other cons.	7428	6435	7910	8446	9362	9962
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	3041	3866	4005	4609	5099	5382
Combustible fuels	1458	2263	2402	3006	3476	3759
Hydro	1580	1580	1580	1580	1580	1580
Nuclear	..	..	..	..	..	..
Other	3	23	23	23	43	43
Main activity	2831	3656	3795	4399	4889	5172
Combustible fuels	1248	2053	2192	2796	3266	3549
Hydro	1580	1580	1580	1580	1580	1580
Nuclear	..	..	..	..	..	..
Other	3	23	23	23	43	43
Combustible fuel input	Terajoules					
Crude oil	25211	12394	25380	10448	42	5752
Gas-diesel oil	65	..	..	1327	613	489
Liquefied petroleum gas	..	..	..	3888	5015	1881
Natural gas	25805	46343	28072	44757	55851	78499
Total input	51080	58737	53452	60420	61521	86620
Total production	17107	20966	27414	30974	37350	39834
Estimated efficiency (% of production to input)	33	36	51	51	61	46

Statistics on electricity

Gibraltar

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	198	224	214	180	215	220
Combustible fuels	198	224	214	180	215	220
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	0	0	0	0
Main activity	198	224	214	180	215	220
Combustible fuels	198	224	214	180	215	220
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	0	0	0	0
Own use in electricity, CHP and heat plants	4	4	4	4	4	4
Net production	194	220	210	176	211	215
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	6	7	6	6	7	7
Consumption	188	213	204	171	204	209
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	188	213	204	171	204	209
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	43	*43	*43	*43	*43	*43
Combustible fuels	43	*43	*43	*43	*43	*43
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	0	0	0	0
Main activity	43	*43	*43	*43	*43	*43
Combustible fuels	43	*43	*43	*43	*43	*43
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	0	0	0	0
Combustible fuel input	Terajoules					
Fuel oil	1939	2182	2060	1737	2101	1411
Natural gas	..	..	..	..	..	732
Total input	1939	2182	2060	1737	2101	2144
Total production	713	806	770	648	774	791
Estimated efficiency (% of production to input)	37	37	37	37	37	37

Statistics on electricity

Greece

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	50474	51874	54439	55266	53263	48626
Combustible fuels	38386	37203	39798	41698	37412	32880
Hydro	4607	6150	5565	4040	5760	4051
Nuclear	..	..	..	..	..	..
Other	7481	8521	9076	9528	10091	11695
Main activity	48682	49534	52492	53333	51048	46146
Combustible fuels	36594	34863	37851	39765	35197	30400
Hydro	4607	6150	5565	4040	5760	4051
Nuclear	..	..	..	..	..	..
Other	7481	8521	9076	9528	10091	11695
Own use in electricity, CHP and heat plants	3772	4068	4212	4677	2482	3069
Net production	46702	47806	50227	50589	50781	45557
Imports	9461	11081	9833	8696	8550	11067
Exports	642	1473	1037	2459	2272	1123
Losses	4149	4895	3957	1102	5242	3692
Consumption	51372	52519	55066	55724	51120	51809
Energy industries own use	1872	1732	1703	1755	1650	1611
By industry and construction	12869	12668	11285	12284	12414	12308
By transport	343	388	186	188	202	203
By households and other cons.	36288	37731	41892	41497	36854	37687
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	18895	18942	19165	19427	19582	20479
Combustible fuels	10932	10855	10799	10805	10644	10644
Hydro	3389	3392	3392	3392	3409	3412
Nuclear	..	..	..	..	..	..
Other	4574	4695	4974	5230	5529	6423
Main activity	18390	18381	18597	18856	19014	19911
Combustible fuels	10427	10294	10231	10234	10076	10076
Hydro	3389	3392	3392	3392	3409	3412
Nuclear	..	..	..	..	..	..
Other	4574	4695	4974	5230	5529	6423
Combustible fuel input	Terajoules					
Brown Coal	271373	226190	174176	192615	185398	125530
Biogas	2961	3138	3623	3710	3790	3752
Gas-diesel oil	10320	11137	11911	13944	11777	9112
Fuel oil	35754	35592	25816	36667	36378	36324
Liquefied petroleum gas	142	0	2034	189	..	..
Refinery gas	11435	16781	14850	6647	7103	10301
Natural gas	59593	61257	103888	132678	125276	140266
Fuelwood	..	*19	*138	*145	*205	*784
Industrial waste	868	1030	1364	0	1213	1758
Biodiesel	..	..	..	7	0	1
Total input	392445	355144	337800	386602	371141	327827
Total production	138190	133931	143273	150112	134683	118370
Estimated efficiency (% of production to input)	35	38	42	39	36	36

Statistics on electricity

Greenland

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	488	520	490	518	*530	*520
Combustible fuels	92	97	89	130	*130	*128
Hydro	396	423	401	388	*400	*392
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	488	520	490	518	*530	*520
Combustible fuels	92	97	89	130	*130	*128
Hydro	396	423	401	388	*400	*392
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	16	17	15	16	*15	*20
Net production	472	504	476	502	*515	*500
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*12	*12	*12	13	*10	*10
Consumption	319	331	320	328	*347	*330
Energy industries own use	..	..	..	..	..	..
By industry and construction	45	47	51	52	*53	*53
By transport	..	..	..	..	..	..
By households and other cons.	274	284	269	275	*294	*277
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	187	*187	*187	187	*187	*187
Combustible fuels	96	*96	*96	96	*96	*96
Hydro	91	91	91	91	*91	91
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	171	171	171	171	*171	171
Combustible fuels	80	*80	*80	80	*80	*80
Hydro	91	91	91	91	*91	91
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	1138	1321	1074	1107	*1075	*1075
Municipal waste	92	98	94	94	*94	*94
Total input	1230	1419	1168	1201	*1169	*1169
Total production	330	350	322	467	*468	*461
Estimated efficiency (% of production to input)	27	25	28	39	40	39

Statistics on electricity

Grenada

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	201	208	221	230	234	243
Combustible fuels	200	207	218	227	231	239
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	2	3	3	3
Main activity	201	207	219	228	231	239
Combustible fuels	200	206	217	225	228	236
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	2	3	3	3
Own use in electricity, CHP and heat plants	7	8	14	15	10	5
Net production	195	201	207	215	224	237
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	15	17	18	19	16	15
Consumption	179	184	194	200	208	217
Energy industries own use	..	..	..	..	..	..
By industry and construction	6	6	5	6	6	6
By transport	..	..	..	..	..	..
By households and other cons.	173	178	188	194	202	211
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	49	49	50	52	54	55
Combustible fuels	48	48	48	50	52	52
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	2	2	2	3
Main activity	48	48	50	52	54	55
Combustible fuels	48	48	48	50	52	52
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	2	2	2	3
Combustible fuel input	Terajoules					
Gas-diesel oil	1642	1823	1944	2016	2173	*2343
Total input	1642	1823	1944	2016	2173	*2343
Total production	721	745	786	815	831	861
Estimated efficiency (% of production to input)	44	41	40	40	38	37

Statistics on electricity

Guam

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*1703	1702	1720	1760	1715	1724
Combustible fuels	*1703	1681	1668	1708	1663	1672
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	22	52	52	52	52
Main activity	*1703	1702	1720	1760	1715	1724
Combustible fuels	*1703	1681	1668	1708	1663	1672
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	22	52	52	52	52
Own use in electricity, CHP and heat plants	*86	83	65	66	63	67
Net production	*1618	1619	1655	1694	1652	1657
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*84	79	81	84	85	88
Consumption	1533	1540	1574	1610	1567	1568
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	1533	1540	1574	1610	1567	1568
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	552	498	498	446	446	445
Combustible fuels	552	472	472	420	420	420
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	26	26	26	26	25
Main activity	552	498	498	446	446	445
Combustible fuels	552	472	472	420	420	420
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	26	26	26	26	25
Combustible fuel input	Terajoules					
Total input	..	..	..	..	..	..
Total production	*6132	6050	6004	6148	5985	6017
Estimated efficiency (% of production to input)	..	..	..	..	..	..

Statistics on electricity

Guatemala

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	10638	11157	11789	12272	13568	*14083
Combustible fuels	5531	6769	7122	5816	7572	*8855
Hydro	4853	3880	3971	5787	5218	4497
Nuclear	..	..	..	..	..	..
Other	254	508	696	669	778	732
Main activity	9782	10302	10878	11490	12522	*12748
Combustible fuels	4703	5942	6231	5055	6554	*7547
Hydro	4825	3852	3951	5765	5191	4470
Nuclear	..	..	..	..	..	..
Other	254	508	696	669	778	732
Own use in electricity, CHP and heat plants	855	747	868	886	775	787
Net production	9783	10410	10921	11386	12793	*13297
Imports	708	585	747	891	825	1141
Exports	1207	1087	1335	1858	2500	2190
Losses	330	333	383	373	903	1587
Consumption	8953	9466	9907	10115	10220	10660
Energy industries own use	..	..	..	..	..	..
By industry and construction	3329	3547	3621	3707	3695	4017
By transport	..	..	..	..	..	..
By households and other cons.	5624	5919	6286	6408	6525	6644
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2626	3139	3442	3356	3499	4042
Combustible fuels	1624	1905	1942	1845	1770	2234
Hydro	964	1039	1306	1311	1492	1560
Nuclear	..	..	..	..	..	..
Other	39	194	194	200	237	249
Main activity	2152	2449	2737	2677	2846	3387
Combustible fuels	1154	1219	1241	1170	1122	1584
Hydro	959	1035	1302	1307	1487	1555
Nuclear	..	..	..	..	..	..
Other	39	194	194	200	237	249
Combustible fuel input	Terajoules					
Hard Coal	30931	44340	52079	43218	51029	49813
Biogas	125	198	186	308	430	308
Gas-diesel oil	69	137	80	114	62	114
Fuel oil	11165	12644	8707	4074	3423	4129
Petroleum coke	..	..	..	..	1751	..
Fuelwood	..	37	12	5	2	..
Bagasse	56283	55979	85152	53779	51340	53779
Total input	98573	113335	146215	101497	108037	108143
Total production	19911	24370	25638	20939	27259	*31877
Estimated efficiency (% of production to input)	20	22	18	21	25	29

Statistics on electricity

Guernsey

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	227	157	87	77	54	165
Combustible fuels	227	157	87	77	54	164
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	*1
Main activity	227	157	87	77	54	165
Combustible fuels	227	157	87	77	54	164
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	*1
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	227	157	87	77	54	165
Imports	156	218	285	294	319	204
Exports	..	..	..	..	..	..
Losses	19	28	23	17	25	22
Consumption	365	347	349	354	348	348
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	365	347	349	354	348	348
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*115	*115	*115	*132	*132	*132
Combustible fuels	*115	*115	*115	*132	*132	*132
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	0	0
Main activity	*115	*115	*115	*132	*132	*132
Combustible fuels	*115	*115	*115	*132	*132	*132
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	0	0
Combustible fuel input	Terajoules					
Gas-diesel oil	*49	*49	*43	*43	*43	*43
Fuel oil	*1903	*1329	*727	*646	*444	*1370
Total input	*1951	*1378	*770	*689	*487	*1413
Total production	818	565	315	277	194	592
Estimated efficiency (% of production to input)	42	41	41	40	40	42

Statistics on electricity

Guinea

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	713	1118	1596	1753	1914	2019
Combustible fuels	287	238	512	541	732	*740
Hydro	426	881	1084	1212	1182	1280
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	552	945	1117	1288	1295	1394
Combustible fuels	126	64	34	76	114	*115
Hydro	426	881	1084	1212	1182	1280
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	14	22	32	35	38	*41
Net production	698	1096	1564	1718	1876	1979
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*107	*168	*239	*263	*287	*303
Consumption	*591	*928	*1324	*1455	1588	*1676
Energy industries own use	..	..	..	..	..	..
By industry and construction	*239	*432	*617	*620	*676	*714
By transport	..	..	..	..	..	..
By households and other cons.	*352	*496	*707	*835	912	*962
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	279	596	593	610	615	621
Combustible fuels	153	228	226	*243	*248	*254
Hydro	125	367	367	367	367	367
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	227	496	444	460	467	471
Combustible fuels	101	128	77	*93	*100	*104
Hydro	125	367	367	367	367	367
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	*1032	*538	*237	*516	*731	*774
Fuel oil	*2060	*1899	*5010	*5131	*6626	*6747
Total input	*3092	*2436	*5246	*5647	*7357	*7521
Total production	1032	855	1842	1947	2636	*2663
Estimated efficiency (% of production to input)	33	35	35	34	36	35

Statistics on electricity

Guinea-Bissau

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*28	*58	*79	*80	*81	*82
Combustible fuels	*28	*58	*79	*79	*80	*80
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	1	1	2
Main activity	*22	*45	*60	*61	*62	*63
Combustible fuels	*22	*45	*60	*60	*61	*61
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	1	1	2
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	*28	*58	*79	*80	*81	*82
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	..	..	..	..	..	..
Consumption	*28	*58	*79	79	*82	*86
Energy industries own use	..	..	..	..	..	..
By industry and construction	*8	*15	*22	22	*23	*24
By transport	..	..	..	..	..	..
By households and other cons.	*21	*43	*56	56	*59	*61
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*24	*23	*27	*27	*27	*28
Combustible fuels	*24	*23	*27	*26	*26	*27
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	1	1	1
Main activity	*22	*19	*21	*22	*22	*22
Combustible fuels	*22	*19	*21	*21	*21	*21
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	1	1	1
Combustible fuel input	Terajoules					
Gas-diesel oil	*305	*576	*800	*796	*843	*843
Total input	*305	*576	*800	*796	*843	*843
Total production	*102	*209	*283	*284	*287	*290
Estimated efficiency (% of production to input)	34	36	35	36	34	34

Statistics on electricity
Guyana

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	979	1004	1081	1105	1136	1135
Combustible fuels	977	999	1076	1098	1125	1123
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	5	5	7	11	11
Main activity	901	941	999	1022	1054	1105
Combustible fuels	899	935	994	1015	1043	1094
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	5	5	7	11	11
Own use in electricity, CHP and heat plants	29	6	31	12	33	22
Net production	950	998	1050	1092	1103	1112
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	215	219	224	233	235	247
Consumption	735	789	826	859	868	869
Energy industries own use	..	..	..	..	..	..
By industry and construction	306	307	321	334	337	325
By transport	..	..	..	..	..	..
By households and other cons.	430	483	505	526	531	545
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	359	369	360	348	348	335
Combustible fuels	358	366	356	343	340	327
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	3	3	5	8	8
Main activity	305	315	306	298	297	293
Combustible fuels	304	312	302	293	289	285
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	3	3	5	8	8
Combustible fuel input	Terajoules					
Gas-diesel oil	2819	2532	2635	3096	3335	4018
Fuel oil	7137	7502	8118	7908	8356	8482
Fuelwood	..	..	..	..	..	53
Bagasse	480	621	448	327	231	155
Total input	10436	10655	11200	11331	11921	12709
Total production	3518	3595	3874	3951	4049	4044
Estimated efficiency (% of production to input)	34	34	35	35	34	32

Statistics on electricity

Haiti

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1034	1040	1086	1058	1048	1064
Combustible fuels	943	955	1013	928	848	860
Hydro	90	83	71	127	197	200
Nuclear	..	..	..	..	..	..
Other	1	2	2	3	3	3
Main activity	984	996	1049	1035	1027	1042
Combustible fuels	893	911	976	905	827	839
Hydro	90	83	71	127	197	200
Nuclear	..	..	..	..	..	..
Other	1	2	2	3	3	3
Own use in electricity, CHP and heat plants	11	17	17	17	18	18
Net production	1023	1023	1069	1041	1031	1046
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	613	608	617	624	634	643
Consumption	410	411	417	422	428	435
Energy industries own use	..	..	..	..	..	..
By industry and construction	184	184	187	189	192	195
By transport	..	..	..	..	..	..
By households and other cons.	226	227	230	233	236	240
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*321	*333	*336	*344	*352	*471
Combustible fuels	*259	*271	*274	*282	*290	*390
Hydro	61	61	61	61	61	78
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	1	3
Main activity	*228	*237	*240	*245	*250	*333
Combustible fuels	*166	*175	*178	*183	*188	*253
Hydro	61	61	61	61	61	78
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	1	3
Combustible fuel input	Terajoules					
Gas-diesel oil	5418	5461	5289	3856	3482	3534
Fuel oil	6908	6908	7797	8284	7725	7839
Total input	12326	12369	13086	12140	11207	11373
Total production	3395	3438	3647	3340	3052	3098
Estimated efficiency (% of production to input)	28	28	28	28	27	27

Statistics on electricity
Honduras

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	8421	8978	9219	9385	9629	10439
Combustible fuels	5421	5535	5505	4820	4253	5779
Hydro	2602	2360	2246	2971	3158	2430
Nuclear	..	..	..	..	..	..
Other	398	1083	1468	1595	2219	2230
Main activity	7650	8051	7950	7875	7982	8595
Combustible fuels	4650	4608	4236	3309	2606	3935
Hydro	2602	2360	2246	2971	3158	2430
Nuclear	..	..	..	..	..	..
Other	398	1083	1468	1595	2219	2230
Own use in electricity, CHP and heat plants	14	14	14	14	14	14
Net production	8407	8965	9205	9372	9616	10425
Imports	827	152	314	446	372	260
Exports	505	2	16	25	8	6
Losses	2885	2929	3125	2858	2991	3292
Consumption	5844	6185	6377	6935	6988	7388
Energy industries own use	..	..	..	..	..	..
By industry and construction	1837	2007	2014	2143	2229	2531
By transport	..	..	..	..	..	..
By households and other cons.	4007	4179	4363	4792	4760	4857
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1897	2292	2456	2663	2740	2770
Combustible fuels	1121	1104	1209	1267	1254	1257
Hydro	624	648	663	685	715	730
Nuclear	..	..	..	..	..	..
Other	152	540	584	711	771	783
Main activity	1755	2022	2092	2269	2371	2416
Combustible fuels	979	834	845	873	885	903
Hydro	624	648	663	685	715	730
Nuclear	..	..	..	..	..	..
Other	152	540	584	711	771	783
Combustible fuel input	Terajoules					
Hard Coal	1617	1184	1675	29	..	..
Gas-diesel oil	1161	1574	1195	370	1114	2146
Fuel oil	38501	37257	30429	23315	17449	27121
Liquefied petroleum gas	..	..	..	..	1201	1641
Petroleum coke	..	..	..	7053	10530	11005
Fuelwood	*7002	2	3	2	1	1
Bagasse	..	1835	1981	2088	21848	12889
Vegetal waste	..	787	1901	1922	1498	1708
Total input	48281	42639	37185	34778	53641	56510
Total production	19516	19926	19818	17352	15310	20805
Estimated efficiency (% of production to input)	40	47	53	50	29	37

Statistics on electricity

Hungary

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	29403	30360	31902	32885	32039	34154
Combustible fuels	12674	13395	14583	15377	14697	15292
Hydro	301	234	259	220	222	219
Nuclear	15649	15834	16054	16098	15733	16288
Other	779	897	1006	1190	1387	2355
Main activity	28737	29554	30893	31616	30489	32179
Combustible fuels	12130	12792	13863	14502	13742	14239
Hydro	301	234	259	220	222	219
Nuclear	15649	15834	16054	16098	15733	16288
Other	657	694	717	796	792	1433
Own use in electricity, CHP and heat plants	2262	2210	2354	2186	2173	2141
Net production	27141	28150	29548	30699	29866	32013
Imports	19079	19935	17951	19803	18613	19853
Exports	5689	6249	5240	6925	4265	7269
Losses	3631	3695	3566	3456	3357	3292
Consumption	35899	37439	38262	39647	40587	41477
Energy industries own use	1162	1148	1110	1154	1169	1161
By industry and construction	14696	15403	16002	16735	17234	17777
By transport	1156	1171	1177	1208	1207	1189
By households and other cons.	18885	19717	19973	20550	20977	21350
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	8667	8634	8758	8860	9256	9914
Combustible fuels	6179	6062	6100	6090	6088	6079
Hydro	57	57	57	57	57	58
Nuclear	2000	2000	2000	2000	2013	2013
Other	431	515	601	713	1098	1764
Main activity	8393	8258	8290	8268	8521	8889
Combustible fuels	6007	5856	5878	5837	5837	5793
Hydro	57	57	57	57	57	58
Nuclear	2000	2000	2000	2000	2013	2013
Other	329	345	355	374	614	1025
Combustible fuel input	Terajoules					
Hard Coal	29	0	2989	1001	869	1069
Brown Coal	64078	63146	60077	53838	54874	42046
Biogas	2113	2202	2529	2612	2546	2466
Fuel oil	525	444	404	566	606	364
Natural gas	44671	49177	59535	69551	64381	73778
Coke-oven gas	1786	1284	2021	1722	2055	1957
Blast furnace gas	2141	2894	2130	2895	3056	2801
Fuelwood	*21531	*21071	*19129	*20873	*21957	*21341
Municipal waste	4096	4827	5194	4314	4398	4308
Industrial waste	398	807	1782	938	1222	1334
Others	305	354	305	424	351	311
Total input	141674	146207	156094	158734	156315	151775
Total production	45626	48222	52499	55357	52909	55051
Estimated efficiency (% of production to input)	32	33	34	35	34	36

Statistics on electricity

Iceland

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	18123	18799	18550	19239	19830	19489
Combustible fuels	3	4	3	2	2	3
Hydro	12873	13781	13470	14059	13814	13461
Nuclear	..	..	..	..	..	..
Other	5247	5014	5077	5178	6014	6025
Main activity	18123	18799	18550	19239	19830	19489
Combustible fuels	3	4	3	2	2	3
Hydro	12873	13781	13470	14059	13814	13461
Nuclear	..	..	..	..	..	..
Other	5247	5014	5077	5178	6014	6025
Own use in electricity, CHP and heat plants	320	241	378	392	397	369
Net production	17803	18558	18172	18846	19432	19120
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	498	576	489	591	554	531
Consumption	17104	17666	17480	18061	18664	18402
Energy industries own use	179	195	176	169	177	175
By industry and construction	14660	15129	14841	15388	15525	14900
By transport	1	2	4	9	14	23
By households and other cons.	2264	2340	2459	2494	2948	3304
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2766	2772	2772	2823	2973	2979
Combustible fuels	114	117	117	116	116	116
Hydro	1984	1987	1987	1995	2099	2104
Nuclear	..	..	..	..	..	..
Other	668	668	668	712	758	758
Main activity	2766	2772	2772	2823	2973	2979
Combustible fuels	114	117	117	116	116	116
Hydro	1984	1987	1987	1995	2099	2104
Nuclear	..	..	..	..	..	..
Other	668	668	668	712	758	758
Combustible fuel input	Terajoules					
Gas-diesel oil	86	86	86	27	24	53
Total input	86	86	86	27	24	53
Total production	11	14	11	8	7	10
Estimated efficiency (% of production to input)	13	17	13	28	28	18

Statistics on electricity

India

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1308873	1354382	1432358	1490257	1521958	1576740
Combustible fuels	1111341	1158338	1188280	1217575	1244959	1253707
Hydro	129353	121546	122507	126235	135164	156049
Nuclear	36102	37414	37916	38346	37813	46472
Other	32077	37084	83655	108101	*104022	*120512
Main activity	1146816	1135434	1233926	1305954	1346325	1358798
Combustible fuels	951504	943013	993516	1037184	1072314	1042838
Hydro	129244	121377	122378	126123	134894	155769
Nuclear	36102	37414	37916	38346	37813	46472
Other	29966	33630	80116	104301	*101304	*113719
Own use in electricity, CHP and heat plants	90857	79302	95931	100826	108297	*109107
Net production	1218016	1275080	1336427	1389431	1413661	1467633
Imports	4998	5244	5617	5611	4657	6351
Exports	4433	5150	6710	7203	8494	9491
Losses	228325	240864	248834	259827	269165	266527
Consumption	955927	1034374	1071213	1135284	1163990	1297138
Energy industries own use	*7600	*5294	*4945	*4956	*5679	*5645
By industry and construction	*418346	*451412	426665	*468909	484843	551362
By transport	16177	16594	17217	14356	16823	19577
By households and other cons.	513804	561074	622386	647063	656645	720554
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*316382	287128	374795	400455	427794	442297
Combustible fuels	*241396	210430	267129	276062	298316	305307
Hydro	*40064	40331	44597	45344	45502	45807
Nuclear	5780	5780	6780	6780	6780	6780
Other	29142	*30587	56289	72269	77196	84403
Main activity	*271722	205114	322506	343824	352179	364297
Combustible fuels	*198745	130475	218330	222907	226279	230600
Hydro	*40000	40272	44532	45293	45399	45699
Nuclear	5780	5780	6780	6780	6780	6780
Other	27197	*28587	52864	68844	73721	81218
Combustible fuel input	Terajoules					
Hard Coal	8625865	9353251	9407701	10218153	*10158212	9747831
Brown Coal	376809	360925	434150	368083	361622	363330
Gas-diesel oil	*281048	9632	16426	15222	21457	13803
Fuel oil	84234	19432	15231	12362	14059	12968
Liquefied petroleum gas	142	142	95	..	95	47
Naphtha	8856	2225	2670	2982	223	..
Natural gas	418305	*634158	654623	632575	468447	*637011
Coke-oven gas	*29968	*30881	*33073	*36321	*38643	*40732
Bagasse	233929	207880	365524	558763	569080	584108
Vegetal waste	115758	127136	148048	132922	102533	100589
Total input	10174913	10745662	11077541	11977384	*11734370	11500420
Total production	4000828	4170017	4277808	4383270	4481852	4513345
Estimated efficiency (% of production to input)	39	39	39	37	38	39

Statistics on electricity

Indonesia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	234549	267287	233367	*283647	293203	299603
Combustible fuels	199993	240698	201209	*251766	260211	266765
Hydro	18800	17595	21475	18632	19774	19749
Nuclear	..	..	..	..	..	..
Other	15756	8995	10683	13249	13218	13088
Main activity	175297	157027	166458	*224746	276881	281755
Combustible fuels	150478	142227	148606	*207769	243889	248917
Hydro	14816	10005	13885	12425	19774	19749
Nuclear	..	..	..	..	..	..
Other	10003	4796	3967	4552	13218	13088
Own use in electricity, CHP and heat plants	10012	12838	9912	*14068	19410	15681
Net production	224537	254449	223455	*269579	273793	283922
Imports	9	13	1	1120	..	..
Exports	..	..	..	..	..	..
Losses	22006	22057	22706	24887	25093	25822
Consumption	198355	212767	215781	244637	251796	258092
Energy industries own use	..	..	..	..	..	..
By industry and construction	65909	72541	68145	93465	92968	88323
By transport	155	257	..	240	266	278
By households and other cons.	132291	139969	147636	150932	158562	169491
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	61689	74448	59305	*60980	64417	66845
Combustible fuels	53692	65967	52622	*53517	56383	58600
Hydro	5655	6186	4868	*5190	5741	5858
Nuclear	..	..	..	..	..	..
Other	2342	2295	*1815	*2273	*2293	*2387
Main activity	51651	55394	39980	*41099	43229	45390
Combustible fuels	45258	48967	35622	*36228	37520	39674
Hydro	4805	4886	3568	*3804	3582	3583
Nuclear	..	..	..	..	..	..
Other	1588	1541	790	*1067	*2127	*2133
Combustible fuel input	Terajoules					
Hard Coal	1711643	1850002	1854221	2013593	2393869	2412504
Motor gasoline	..	7664	7752	6867	8284	7682
Gas-diesel oil	253528	155316	130333	97653	123109	104087
Fuel oil	24725	20200	21129	16483	22180	16083
Natural gas	509724	777817	452991	559508	465092	546210
Fuelwood	3690	8298	10512	0	..	..
Charcoal	*266	266	*266	*266	..	..
Biodiesel	*6698	*6403	*12696	*9826	*10746	*15382
Total input	2510273	2825965	2489900	2704194	3023279	3101949
Total production	719976	866513	724352	*906357	936761	960355
Estimated efficiency (% of production to input)	29	31	29	34	31	31

Statistics on electricity
Iran (Islamic Rep. of)

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	274437	280635	289116	307992	307968	322778
Combustible fuels	255870	263393	265799	285012	284508	298753
Hydro	13862	14090	16421	15051	15051	15865
Nuclear	4472	2914	6620	7514	7514	7148
Other	233	238	276	415	895	1013
Main activity	268167	274195	282634	300087	300063	317885
Combustible fuels	249600	256953	259317	277107	276603	293860
Hydro	13862	14090	16421	15051	15051	15865
Nuclear	4472	2914	6620	7514	7514	7148
Other	233	238	276	415	895	1013
Own use in electricity, CHP and heat plants	8717	8132	8205	8833	7489	9102
Net production	265720	272503	280911	299159	300479	313677
Imports	3772	4148	4221	3852	2587	2738
Exports	9660	6822	6688	8172	6295	6365
Losses	34610	33297	33513	33722	32853	34303
Consumption	224136	235555	243468	254942	262929	264965
Energy industries own use	2797	2915	3016	3225	3176	3599
By industry and construction	75689	77186	80860	80749	88541	87411
By transport	363	549	436	477	477	514
By households and other cons.	145287	154905	159156	170491	170735	173441
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	73148	74185	74106	*76569	*78794	*80467
Combustible fuels	61174	61632	61262	*63145	*65241	*66740
Hydro	10789	11354	11578	11949	11953	12026
Nuclear	1020	1020	1020	1020	1020	1020
Other	166	179	246	455	580	681
Main activity	67568	68604	68525	*70816	*72889	*74467
Combustible fuels	55593	56051	55681	*57392	*59336	*60740
Hydro	10789	11354	11578	11949	11953	12026
Nuclear	1020	1020	1020	1020	1020	1020
Other	166	179	246	455	580	681
Combustible fuel input	Terajoules					
Biogas	127	127	282	288	288	254
Gas-diesel oil	332025	227649	219566	181176	216419	202856
Fuel oil	394140	266494	171999	141457	131664	130803
Other kerosene	..	..	..	175	175	149
Natural gas	1957762	2279763	2431484	2730586	2650863	2602176
Coke-oven gas	186	88	169	2181	2518	2324
Blast furnace gas	10284	9064	9474	7739	8191	8329
Total input	2694523	2783185	2832973	3063602	3010118	2946892
Total production	921132	948215	956876	1026043	1024229	1075511
Estimated efficiency (% of production to input)	34	34	34	33	34	36

Statistics on electricity

Iraq

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	67825	*68745	80087	83947	82507	95816
Combustible fuels	64837	*66116	76659	81714	80312	93941
Hydro	2931	*2572	3371	2176	1818	1818
Nuclear	..	..	..	..	..	..
Other	57	57	57	57	377	57
Main activity	67768	*68688	80030	83890	82130	95759
Combustible fuels	64837	*66116	76659	81714	80312	93941
Hydro	2931	*2572	3371	2176	1818	1818
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	1770	*977	2080	3947	2076	2411
Net production	66055	*67768	78007	80000	80431	93405
Imports	12251	13104	11965	11787	21793	14180
Exports	..	..	..	..	..	..
Losses	34312	31967	48958	52767	55472	58502
Consumption	43993	42735	39433	38377	39594	44415
Energy industries own use	..	..	..	..	..	..
By industry and construction	10071	*8665	5180	5160	4784	5251
By transport	..	..	..	..	..	..
By households and other cons.	33922	34070	34253	33217	34810	39164
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	25626	31148	32214	26133	27412	27412
Combustible fuels	23076	28598	29664	24300	25400	25400
Hydro	2513	2513	2513	1796	1796	1796
Nuclear	..	..	..	..	..	..
Other	37	37	37	37	216	216
Main activity	25589	31111	32177	26096	27196	27196
Combustible fuels	23076	28598	29664	24300	25400	25400
Hydro	2513	2513	2513	1796	1796	1796
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Crude oil	283114	348044	380489	338781	345929	366844
Gas-diesel oil	426345	359738	360340	360684	270814	34571
Fuel oil	229674	201071	233795	121523	217958	113829
Naphtha	0	0	..	..	..	..
Natural gas	183234	207313	225878	353870	460255	596272
Total input	1122367	1116166	1200501	1174858	1294956	1111516
Total production	233413	*238018	275972	294170	289123	338188
Estimated efficiency (% of production to input)	21	21	23	25	22	30

Statistics on electricity

Ireland

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	26088	28392	30514	30875	31134	30941
Combustible fuels	19958	20721	23388	22525	21546	19768
Hydro	988	1095	973	895	932	1132
Nuclear	..	..	..	..	..	..
Other	5142	6576	6153	7455	8656	10041
Main activity	23990	26194	28277	28637	28925	28784
Combustible fuels	17886	18562	21189	20334	19393	17684
Hydro	988	1095	973	895	932	1132
Nuclear	..	..	..	..	..	..
Other	5116	6537	6115	7408	8600	9967
Own use in electricity, CHP and heat plants	775	769	822	783	781	686
Net production	25313	27623	29692	30092	30352	30255
Imports	2853	1752	871	1116	1622	2180
Exports	704	1079	1583	1795	1649	1535
Losses	2028	2084	2135	2176	2236	2274
Consumption	25491	26444	27025	27153	28509	29038
Energy industries own use	678	656	647	516	632	614
By industry and construction	6518	6373	6708	6833	7229	7461
By transport	40	44	49	53	62	79
By households and other cons.	18255	19371	19621	19751	20585	20885
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	9260	9679	10017	10608	10982	11137
Combustible fuels	6446	6697	6696	6745	6752	6417
Hydro	529	529	529	529	529	529
Nuclear	..	..	..	..	..	..
Other	2285	2453	2792	3334	3700	4191
Main activity	8901	9318	9650	10222	10578	10716
Combustible fuels	6105	6354	6351	6395	6396	6053
Hydro	529	529	529	529	529	529
Nuclear	..	..	..	..	..	..
Other	2267	2435	2770	3298	3653	4134
Combustible fuel input	Terajoules					
Hard Coal	40473	48423	46439	37501	21254	6693
Peat	24120	24635	23893	22480	20982	20851
Biogas	1846	1948	1938	1914	1699	1665
Gas-diesel oil	301	774	473	306	342	515
Fuel oil	1980	2424	2182	1075	1089	2725
Liquefied petroleum gas	0	47	47	27	27	27
Refinery gas	198	347	198	14	..	..
Natural gas	91598	88183	108711	112511	114234	117046
Fuelwood	*2431	*1794	*3675	*3561	*3184	*3223
Municipal waste	2096	2120	2132	4596	7957	7748
Total input	165043	170694	189688	183986	170767	160493
Total production	71849	74596	84197	81091	77565	71166
Estimated efficiency (% of production to input)	44	44	44	44	45	44

Statistics on electricity

Isle of Man

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	465	435	433	467	493	581
Combustible fuels	462	431	430	463	490	578
Hydro	3	4	3	4	*2	3
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	442	411	408	443	460	548
Combustible fuels	439	407	405	439	457	545
Hydro	3	4	3	4	*2	3
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	35	39
Net production	465	435	433	467	457	542
Imports	42	63	65	41	*65	*46
Exports	93	87	105	95	131	192
Losses	*30	*30	*30	*30	*25	*30
Consumption	368	367	362	363	362	366
Energy industries own use	..	..	..	..	..	..
By industry and construction	137	141	139	133	135	141
By transport	..	..	..	..	..	..
By households and other cons.	231	226	223	230	227	225
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	194	194	184	187	187	187
Combustible fuels	193	193	183	186	186	186
Hydro	1	1	1	1	1	1
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	186	186	176	180	180	180
Combustible fuels	185	185	175	179	179	179
Hydro	1	1	1	1	1	1
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Fuel oil	81	108	105	48	35	29
Natural gas	3587	3165	3668	3587	3587	4304
Municipal waste	*380	*389	*411	*396	*546	*542
Total input	4048	3662	4184	4031	4168	4875
Total production	1664	1551	1548	1666	1765	2080
Estimated efficiency (% of production to input)	41	42	37	41	42	43

Statistics on electricity

Israel

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	60813	64226	66976	67674	68894	72524
Combustible fuels	59954	63080	65432	65742	66978	68796
Hydro	13	24	0	0	0	..
Nuclear	..	..	..	..	..	..
Other	846	1122	1544	1933	1916	3727
Main activity	57478	60483	62907	63409	63847	65000
Combustible fuels	57464	60461	62907	63409	63847	65000
Hydro	8	15	0	0	0	..
Nuclear	..	..	..	..	..	..
Other	6	7	0	0	0	..
Own use in electricity, CHP and heat plants	1989	1928	2441	2199	2304	2384
Net production	58824	62298	64535	65476	66590	70140
Imports	..	..	..	..	..	..
Exports	4844	5197	5553	5649	5863	6311
Losses	1738	2472	2535	2387	2514	2642
Consumption	52201	54791	56443	57149	58307	60945
Energy industries own use	883	769	755	855	826	871
By industry and construction	15211	12746	13444	12943	13996	12554
By transport	..	..	..	..	..	..
By households and other cons.	36107	41276	42244	43352	43485	47520
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	16220	17221	17585	17827	18019	19493
Combustible fuels	15526	16466	16689	16813	16617	17192
Hydro	7	7	7	9	9	9
Nuclear	..	..	..	..	..	..
Other	687	748	889	1005	1393	2292
Main activity	15075	15986	16198	16236	16001	16575
Combustible fuels	15064	15975	16166	16205	15964	16538
Hydro	5	5	5	4	2	2
Nuclear	..	..	..	..	..	..
Other	6	6	27	27	35	35
Combustible fuel input	Terajoules					
Hard Coal	273447	266209	227233	206953	195455	206387
Biogas	593	559	795	960	878	806
Oil shale	1572	1667	1679	1783	648	614
Gas-diesel oil	731	3913	2193	6594	2646	6648
Fuel oil	525	848	848	1284	968	865
Other oil products	1568	0	..	..	..	..
Natural gas	245137	262263	317669	342459	300611	287920
Total input	523573	535460	550418	560033	501207	503240
Total production	215834	227088	235555	236671	241120	247666
Estimated efficiency (% of production to input)	41	42	43	42	48	49

Statistics on electricity

Italy

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	279827	282994	289768	295830	289708	293853
Combustible fuels	175510	191458	198693	208824	192129	195084
Hydro	60256	46970	44257	38025	50503	48154
Nuclear	..	..	..	..	..	..
Other	44061	44566	46818	48982	47077	50616
Main activity	264085	263912	271301	276048	266925	271513
Combustible fuels	160761	173249	181006	189674	170015	173389
Hydro	59518	46361	43695	37536	50037	47661
Nuclear	..	..	..	..	..	..
Other	43806	44302	46600	48839	46873	50463
Own use in electricity, CHP and heat plants	10679	10566	10065	10564	9864	9903
Net production	269148	272428	279703	285266	279845	283950
Imports	46747	50849	43181	42895	47170	43975
Exports	3031	4471	6154	5134	3271	5834
Losses	19451	19717	18753	18668	17988	17818
Consumption	293414	299089	297977	304359	305755	304273
Energy industries own use	11916	11606	11950	12393	12674	12340
By industry and construction	112918	112665	113257	115609	116070	119535
By transport	10463	10856	11162	11383	11540	11542
By households and other cons.	158117	163962	161608	164973	165471	160856
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	121747	116964	114162	114240	115220	116435
Combustible fuels	71272	65617	62096	61289	61276	61284
Hydro	22098	22220	22298	22426	22498	22541
Nuclear	..	..	..	..	..	..
Other	28377	29127	29768	30525	31446	32610
Main activity	117673	111706	109328	109206	109699	111003
Combustible fuels	67419	60575	57438	56426	55929	56028
Hydro	21979	22099	22181	22307	22393	22435
Nuclear	..	..	..	..	..	..
Other	28275	29032	29709	30473	31377	32540
Combustible fuel input	Terajoules					
Hard Coal	408150	414451	342425	304038	266920	183035
Biogas	80223	76475	76651	77414	76494	81049
Fuel oil	32401	37532	20281	20059	12496	12649
Refinery gas	26978	28958	31581	30818	30381	31070
Other oil products	106811	118188	125022	119490	125585	107705
Natural gas	829412	947225	1057652	1162357	1075138	1171351
Blast furnace gas	25051	15672	23686	16953	17987	17071
Fuelwood	*82397	*70047	*73136	*72332	*72080	*71284
Municipal waste	71882	70838	72906	71443	70893	73103
Other liquid biofuels	26386	29400	28277	26895	26114	28444
Others	29970	26071	17982	18031	15985	16476
Total input	1719661	1834855	1869599	1919829	1790073	1793237
Total production	631836	689249	715295	751765	691664	702303
Estimated efficiency (% of production to input)	37	38	38	39	39	39

Statistics on electricity

Jamaica

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	4123	4206	4342	4360	4402	4434
Combustible fuels	3869	3953	4002	3873	3875	3961
Hydro	135	128	118	154	179	155
Nuclear	..	..	..	..	..	..
Other	119	125	222	333	348	318
Main activity	2462	2528	2556	2533	2561	2449
Combustible fuels	2327	2400	2438	2379	2382	2294
Hydro	135	128	118	154	179	155
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	12	12	13	18	19	60
Net production	4111	4194	4329	4342	4383	4374
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	1103	1137	1160	1152	1144	1149
Consumption	3011	3073	3184	3191	3299	3237
Energy industries own use	..	..	..	..	..	..
By industry and construction	1357	1379	1410	1358	1800	1285
By transport	..	..	..	..	..	..
By households and other cons.	1654	1694	1774	1833	1499	1953
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	939	965	1031	1041	1045	*1150
Combustible fuels	874	871	871	871	874	*962
Hydro	23	29	29	29	29	29
Nuclear	..	..	..	..	..	..
Other	42	65	131	141	142	*159
Main activity	638	641	661	661	665	*665
Combustible fuels	612	609	609	609	612	*612
Hydro	23	29	29	29	29	29
Nuclear	..	..	..	..	..	..
Other	3	3	23	23	24	*24
Combustible fuel input	Terajoules					
Gas-diesel oil	7886	7835	9507	1587	1419	1677
Fuel oil	24433	26337	26296	29007	29169	26422
Natural gas	..	..	*355	*4089	3789	9630
Bagasse	*2317	*2626	*2703	*1853	*309	*954
Total input	34636	36797	38861	36536	34686	38682
Total production	13928	14231	14407	13943	13950	14259
Estimated efficiency (% of production to input)	40	39	37	38	40	37

Statistics on electricity

Japan

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1075985	1058653	1070871	1080974	1068464	1044978
Combustible fuels	936973	894059	892019	872308	823457	795424
Hydro	86942	91270	85665	91060	88348	87256
Nuclear	0	9437	18060	32912	64929	63779
Other	52070	63887	75127	84694	91730	98519
Main activity	854704	824250	923511	929866	906514	879236
Combustible fuels	781907	737463	808823	791663	737145	708954
Hydro	70255	74801	82349	88356	85058	84304
Nuclear	0	9437	18060	32912	64929	63779
Other	2542	2549	14279	16936	19382	22199
Own use in electricity, CHP and heat plants	35499	34595	45240	48209	43484	43484
Net production	1040486	1024058	1025631	1032765	1024980	1001494
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	43334	40587	45600	40642	45010	44094
Consumption	992537	969591	973823	989627	970591	952484
Energy industries own use	18876	20098	23120	24895	24894	24828
By industry and construction	355110	344897	343004	346601	347725	342530
By transport	17604	17551	17543	17543	17543	17543
By households and other cons.	600947	587045	590156	600589	580429	567584
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	319625	326444	338210	342197	347178	346474
Combustible fuels	196664	194388	198299	197092	196656	193414
Hydro	49597	50034	50117	50014	50037	50033
Nuclear	44264	42048	41482	39132	38042	33083
Other	29100	39974	48312	55959	62443	69944
Main activity	234028	231484	274454	272831	271643	266070
Combustible fuels	143777	143040	174392	173261	171469	168760
Hydro	45403	45786	49521	49562	49582	49635
Nuclear	44264	42048	41482	39132	38042	33083
Other	584	610	9059	10876	12550	14592
Combustible fuel input	Terajoules					
Hard Coal	2925909	2901200	2869146	2973099	2866492	2844251
Fuel oil	462944	367721	302475	223939	163552	106717
Refinery gas	90734	93902	116523	139999	118072	91324
Natural gas	3585190	3342226	3450612	3287592	3126892	2952583
Coke-oven gas	64203	65612	65260	62449	58947	59835
Blast furnace gas	219748	210696	206264	196630	190515	184687
Fuelwood	*7187	*19329	*35158	*49294	*61279	*74476
Vegetal waste	*59152	*59374	*60900	*65387	*65419	*88099
Industrial waste	72720	73204	132226	149210	167464	145606
Bitumen	27055	25004	75174	75972	77197	77234
Others	492519	447401	283316	240602	195478	188286
Total input	8007360	7605669	7597054	7464173	7091309	6813099
Total production	3373103	3218612	3211268	3140307	2964446	2863526
Estimated efficiency (% of production to input)	42	42	42	42	42	42

Statistics on electricity

Jersey

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	108	48	70	49	45	44
Combustible fuels	108	48	70	49	45	44
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	71	7	24	4	2	2
Combustible fuels	71	7	24	4	2	2
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	108	48	70	49	45	44
Imports	566	625	614	626	637	630
Exports	..	..	..	..	..	..
Losses	60	52	47	53	48	40
Consumption	615	622	637	620	633	632
Energy industries own use	..	..	..	..	..	..
By industry and construction	253	242	*249	*239	*239	*234
By transport	..	..	..	..	..	..
By households and other cons.	362	380	387	381	395	398
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*240	78	78	78	78	*78
Combustible fuels	*240	78	78	78	78	*78
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*212	50	50	50	50	*50
Combustible fuels	*212	50	50	50	50	*50
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	744	103	259	58	32	28
Municipal waste	*658	*732	*813	*799	*760	*764
Total input	1402	*835	*1072	*857	*792	*793
Total production	388	173	250	176	161	159
Estimated efficiency (% of production to input)	28	21	23	20	20	20

Statistics on electricity

Jordan

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	18270	19012	*19563	19760	19437	20609
Combustible fuels	18210	18834	*18704	18354	17293	17629
Hydro	58	53	42	38	23	18
Nuclear	..	..	..	..	..	..
Other	2	125	818	1369	2122	2961
Main activity	17887	18540	*19363	19560	19298	19773
Combustible fuels	17827	18363	*18504	18154	17154	16794
Hydro	58	53	42	38	23	18
Nuclear	..	..	..	..	..	..
Other	2	125	818	1369	2122	2961
Own use in electricity, CHP and heat plants	632	676	550	928	1099	516
Net production	17638	18336	*19013	18832	18339	20092
Imports	435	604	334	51	188	239
Exports	64	50	46	57	94	98
Losses	2569	2190	2072	2029	2094	2249
Consumption	15419	16282	16805	17605	17594	17999
Energy industries own use	98	105	105	101	100	89
By industry and construction	3780	3823	3763	3910	3861	3622
By transport	..	..	..	..	..	..
By households and other cons.	11541	12354	12937	13594	13632	14287
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	4199	4455	4475	4506	4846	5227
Combustible fuels	4186	4320	3969	3890	3745	3745
Hydro	12	12	12	12	12	12
Nuclear	..	..	..	..	..	..
Other	1	123	494	604	1089	1470
Main activity	4000	4256	4276	4307	4647	5028
Combustible fuels	3987	4121	3770	3691	3546	3546
Hydro	12	12	12	12	12	12
Nuclear	..	..	..	..	..	..
Other	1	123	494	604	1089	1470
Combustible fuel input	Terajoules					
Biogas	72	90	100	100	*100	85
Gas-diesel oil	70258	24079	569	394	176	76
Fuel oil	69561	59497	15469	20596	6036	10407
Natural gas	*12590	81400	141902	163276	159917	155279
Total input	152480	165067	158040	184365	166229	165847
Total production	65556	67803	*67333	66073	62254	63466
Estimated efficiency (% of production to input)	43	41	43	36	37	38

Statistics on electricity
Kazakhstan

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	105165	106540	106675	103195	107329	106879
Combustible fuels	96791	97020	94644	91485	96187	95346
Hydro	8263	9269	11620	11210	10330	9994
Nuclear	..	..	..	..	..	..
Other	111	251	411	500	812	1539
Main activity	105164	106539	106674	103194	107328	106878
Combustible fuels	96791	97020	94644	91485	96187	95346
Hydro	8263	9269	11620	11210	10330	9994
Nuclear	..	..	..	..	..	..
Other	110	250	410	499	811	1538
Own use in electricity, CHP and heat plants	8077	7658	7441	6834	6195	6490
Net production	97088	98882	99234	96361	101134	100390
Imports	1749	1618	1319	1327	1561	1935
Exports	2917	1614	2572	5692	5042	2419
Losses	7082	5181	5349	6411	6569	9689
Consumption	76676	76407	76064	79533	95309	80661
Energy industries own use	7776	8209	10166	9957	14981	8707
By industry and construction	45529	45110	44244	47406	50397	44080
By transport	2511	3573	3245	4019	3234	3525
By households and other cons.	20860	19515	18409	18151	26697	24349
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*25305	*25395	*25452	*25514	25270	23965
Combustible fuels	*22500	*22500	*22500	*22500	21902	20079
Hydro	2675	2678	2696	2726	2756	2778
Nuclear	..	..	..	..	..	..
Other	130	217	256	288	612	1108
Main activity	*25304	*25394	*25451	*25513	25269	23964
Combustible fuels	*22500	*22500	*22500	*22500	21902	20079
Hydro	2675	2678	2696	2726	2756	2778
Nuclear	..	..	..	..	..	..
Other	129	216	255	287	611	1107
Combustible fuel input	Terajoules					
Hard Coal	307125	292391	282264	315914	346910	330351
Brown Coal	161	166	1560	2043	2626	1437
Biogas	18	42	58	32	19	43
Crude oil	..	..	..	..	..	0
Fuel oil	12201	16241	23028	8888	8601	7442
Natural gas	233178	225843	257658	261839	313105	311886
Total input	552683	534683	564568	588716	671262	651159
Total production	348448	349272	340718	329346	346273	343247
Estimated efficiency (% of production to input)	63	65	60	56	52	53

Statistics on electricity
Kenya

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	9139	9515	10058	10360	11182	11621
Combustible fuels	2635	1471	1557	2766	1679	1526
Hydro	3569	3463	3960	2777	3986	3205
Nuclear	..	..	..	..	..	..
Other	2934	4580	4541	4818	5517	6890
Main activity	9139	9456	9971	10129	11049	11408
Combustible fuels	2635	1412	1471	2534	1546	1313
Hydro	3569	3463	3960	2777	3986	3205
Nuclear	..	..	..	..	..	..
Other	2934	4580	4541	4818	5517	6890
Own use in electricity, CHP and heat plants	43	78	80	84	86	86
Net production	9095	9437	9978	10276	11096	11535
Imports	158	59	86	230	130	212
Exports	27	47	39	12	35	16
Losses	1662	1642	1965	1938	2445	2751
Consumption	7786	7826	8053	8410	8702	8854
Energy industries own use	..	..	..	..	..	..
By industry and construction	3988	4426	5030	5067	4337	4441
By transport	..	..	..	..	..	..
By households and other cons.	3798	3400	3023	3343	4366	4413
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2115	2264	2255	2271	3043	3155
Combustible fuels	734	819	786	766	1209	1113
Hydro	797	800	798	826	821	826
Nuclear	..	..	..	..	..	..
Other	584	646	671	679	1014	1216
Main activity	2115	2264	2255	2271	2679	2791
Combustible fuels	734	819	786	766	845	749
Hydro	797	800	798	826	821	826
Nuclear	..	..	..	..	..	..
Other	584	646	671	679	1014	1216
Combustible fuel input	Terajoules					
Biogas	..	..	..	..	6	..
Gas-diesel oil	7310	3612	2263	1196	9804	9159
Fuel oil	6399	7874	5484	11009	12605	4646
Vegetal waste	16800	16800	15460	16800	*16500	*16500
Total input	30509	28286	23207	29005	38915	*30305
Total production	9487	5295	5606	9956	6043	5493
Estimated efficiency (% of production to input)	31	19	24	34	16	18

Statistics on electricity

Kiribati

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*27	*29	*31	*31	*32	*32
Combustible fuels	*26	*26	*26	*26	*27	*27
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	4	5	5	5	5
Main activity	*25	*27	*29	*29	*29	*30
Combustible fuels	*24	*24	*24	*24	*24	*25
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	4	5	5	5	5
Own use in electricity, CHP and heat plants	1	2	2	2	*2	*1
Net production	*26	*28	*30	*30	*30	*30
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	4	*5	*5	*5	*5	*5
Consumption	21	*23	*25	*25	*25	*26
Energy industries own use	..	..	..	..	..	..
By industry and construction	*2	*2	*2	*2	*2	*2
By transport	..	..	..	..	..	..
By households and other cons.	19	*21	*23	*23	*23	*24
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*7	*10	*11	*11	*11	*11
Combustible fuels	*6	*8	*8	*8	*8	*8
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	2	3	3	3	3
Main activity	*6	*9	*10	*10	*10	*10
Combustible fuels	*5	*7	*7	*7	*7	*7
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	2	3	3	3	3
Combustible fuel input	Terajoules					
Gas-diesel oil	292	*280	*241	*301	*301	*305
Total input	292	*280	*241	*301	*301	*305
Total production	*92	*92	*94	*94	*95	*96
Estimated efficiency (% of production to input)	31	33	39	31	32	32

Statistics on electricity

Korea, Dem.Ppl's.Rep.

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	17916	13748	16272	14451	15044	13579
Combustible fuels	4909	3737	3459	2537	2229	2563
Hydro	13000	10000	12800	11900	12800	11000
Nuclear	..	..	..	..	..	..
Other	7	11	13	14	15	16
Main activity	17916	13748	16272	14451	15044	13579
Combustible fuels	4909	3737	3459	2537	2229	2563
Hydro	13000	10000	12800	11900	12800	11000
Nuclear	..	..	..	..	..	..
Other	7	11	13	14	15	16
Own use in electricity, CHP and heat plants	1698	1303	1542	1369	1426	1287
Net production	16218	12445	14730	13081	13618	12292
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	2832	2173	2571	2283	2377	2146
Consumption	13386	10272	12159	10798	11241	10147
Energy industries own use	..	..	..	..	..	..
By industry and construction	6693	5136	6080	7367	7669	6922
By transport	..	..	..	325	338	306
By households and other cons.	6693	5136	6079	3106	3234	2919
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	7260	7435	7671	7731	8160	8160
Combustible fuels	2960	2960	2960	2960	3360	3360
Hydro	4293	4467	4701	4761	4790	4790
Nuclear	..	..	..	..	..	..
Other	*7	*8	*10	*10	*10	*10
Main activity	7260	7435	7671	7731	8160	8160
Combustible fuels	2960	2960	2960	2960	3360	3360
Hydro	4293	4467	4701	4761	4790	4790
Nuclear	..	..	..	..	..	..
Other	*7	*8	*10	*10	*10	*10
Combustible fuel input	Terajoules					
Hard Coal	33948	22517	28976	20195	16854	18844
Brown Coal	6155	4168	4537	3164	2638	2950
Fuel oil	10625	14706	17049	14134	13843	16757
Total input	50728	41390	50561	37493	33336	38551
Total production	17672	13453	12452	9132	8024	9227
Estimated efficiency (% of production to input)	35	33	25	24	24	24

Statistics on electricity
Korea, Republic of

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	550934	552697	562603	566880	590111	581492
Combustible fuels	381511	375110	385386	400148	435292	410786
Hydro	7820	5796	6634	7006	7270	6249
Nuclear	156407	164762	161995	148427	133505	145910
Other	5196	7029	8588	11299	14043	18547
Main activity	517962	522835	527590	533228	554386	549652
Combustible fuels	349044	345891	351162	367460	400689	380291
Hydro	7820	5796	6634	7006	7270	6249
Nuclear	156407	164762	161995	148427	133505	145910
Other	4691	6386	7799	10335	12921	17202
Own use in electricity, CHP and heat plants	20927	23733	22519	21084	23266	22393
Net production	530007	528964	540084	545796	566845	559099
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	18270	17979	18475	18790	18183	19000
Consumption	505690	511469	534858	543861	550590	542836
Energy industries own use	18856	16158	17587	20624	19216	19020
By industry and construction	259606	262369	265383	274429	278814	272589
By transport	2003	2217	2689	2864	2967	3111
By households and other cons.	225225	230725	249199	245944	249593	248116
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	99817	103191	111203	122950	127475	132104
Combustible fuels	69122	70108	75559	86377	89013	88174
Hydro	6467	6471	6485	6489	6490	6508
Nuclear	20716	21716	23116	22529	21850	23250
Other	3512	4896	6043	7555	10122	14172
Main activity	92115	95695	103742	113913	117613	122901
Combustible fuels	62121	63704	68903	78130	80138	80211
Hydro	6467	6471	6485	6489	6490	6508
Nuclear	20716	21716	23116	22529	21850	23250
Other	2811	3804	5238	6765	9135	12932
Combustible fuel input	Terajoules					
Hard Coal	2049054	2106320	2107076	2117887	2113890	2011638
Brown Coal	103882	145713	140268	208596	209868	187907
Fuel oil	66741	76073	112070	44641	48864	28553
Naphtha	47882	63680	55136	45689	47573	31957
Petroleum coke	11050	15925	10628	20575	21129	25577
Natural gas	933846	889749	952847	993522	1204485	1156396
Coke-oven gas	38166	35247	35474	39417	41093	37527
Blast furnace gas	127625	124623	120427	121844	121419	120192
Fuelwood	*4613	*10176	*38807	*41348	*52535	*54658
Other recovered gases	20893	22509	23676	23219	23177	22465
Others	42111	38246	36358	45738	49294	52891
Total input	3445863	3528261	3632766	3702479	3933326	3729761
Total production	1373440	1350396	1387390	1440532	1567051	1478831
Estimated efficiency (% of production to input)	40	38	38	39	40	40

Statistics on electricity

Kosovo

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	5436	6119	5981	5919	5917	6351
Combustible fuels	5285	5979	5736	5739	5612	6037
Hydro	151	140	245	179	273	213
Nuclear	..	..	..	..	..	..
Other	..	..	..	1	32	101
Main activity	5436	6119	5981	5919	5917	6351
Combustible fuels	5285	5979	5736	5739	5612	6037
Hydro	151	140	245	179	273	213
Nuclear	..	..	..	..	..	..
Other	..	..	..	1	32	101
Own use in electricity, CHP and heat plants	434	618	430	618	537	500
Net production	5002	5501	5551	5301	5380	5851
Imports	966	684	557	1242	825	928
Exports	475	553	1064	880	677	905
Losses	818	999	1174	1317	1125	1145
Consumption	4674	4622	3871	4337	4398	4714
Energy industries own use	0	0	0	..	..	..
By industry and construction	1311	1368	1048	1062	979	1043
By transport	..	..	..	..	..	..
By households and other cons.	3363	3254	2823	3275	3419	3671
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	959	959	1009	1409	1409	*1602
Combustible fuels	915	915	915	1288	1288	*1288
Hydro	43	43	86	80	80	213
Nuclear	..	..	..	..	..	..
Other	1	1	8	40	40	101
Main activity	959	959	1009	1409	1409	*1602
Combustible fuels	915	915	915	1288	1288	*1288
Hydro	43	43	86	80	80	213
Nuclear	..	..	..	..	..	..
Other	1	1	8	40	40	101
Combustible fuel input	Terajoules					
Brown Coal	54598	63532	66473	55792	59498	62182
Gas-diesel oil	86	86	86	86	43	87
Fuel oil	121	121	121	81	81	71
Total input	54806	63739	66680	55959	59622	62340
Total production	19026	21524	20650	20660	20203	21732
Estimated efficiency (% of production to input)	35	34	31	37	34	35

Statistics on electricity

Kuwait

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	65140	68288	70085	72790	74107	75184
Combustible fuels	65140	68288	70085	72788	74103	75082
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	0	2	4	102
Main activity	65140	68288	70085	72788	74103	75082
Combustible fuels	65140	68288	70085	72788	74103	75082
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	7597	7878	8168	7921	8316	8304
Net production	57543	60410	61917	64869	65791	66880
Imports	136	133	171	553	202	*132
Exports	178	175	213	390	535	..
Losses	5750	6037	6188	6503	6546	6701
Consumption	51751	54331	55688	58529	58912	60311
Energy industries own use	14188	14895	15267	16046	16151	16534
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	37563	39436	40421	42483	42762	43777
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	15739	18279	18892	18765	18867	19371
Combustible fuels	15739	18279	18890	18763	18863	19266
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	*2	*2	*4	105
Main activity	15719	18259	18870	18743	18793	19196
Combustible fuels	15719	18259	18870	18743	18793	19196
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Crude oil	84642	28510	23857	54017	36632	20219
Gas-diesel oil	64285	49407	33024	29971	20898	30960
Fuel oil	230240	283406	293950	252298	260580	237229
Natural gas	337808	377668	407319	403477	434116	466577
Total input	716975	738991	758151	739763	752226	754985
Total production	234504	245837	252306	262037	266771	270295
Estimated efficiency (% of production to input)	33	33	33	35	35	36

Statistics on electricity

Kyrgyzstan

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	14572	13030	13262	15514	15728	15100
Combustible fuels	1274	1930	1768	1311	1410	1256
Hydro	13298	11100	11494	14203	14318	13844
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	14552	13006	13236	15499	15689	15068
Combustible fuels	1254	1906	1742	1296	1371	1224
Hydro	13298	11100	11494	14203	14318	13844
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	270	244	182	136	194	142
Net production	14302	12786	13080	15378	15534	14958
Imports	286	729	330	..	..	269
Exports	72	184	199	1215	755	271
Losses	3458	2668	2655	2844	2814	2514
Consumption	11058	10663	10428	11190	11965	12442
Energy industries own use	74	76	268	182	101	86
By industry and construction	1175	2356	1709	1763	2510	2190
By transport	232	174	45	46	44	31
By households and other cons.	9577	8057	8406	9199	9310	10135
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*3864	*3865	*3786	3869	*3869	3869
Combustible fuels	*800	*801	*722	*734	*734	734
Hydro	*3064	*3064	*3064	3135	*3135	3135
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*3859	*3859	*3780	3863	*3863	3863
Combustible fuels	*795	*795	*716	*728	*728	728
Hydro	*3064	*3064	*3064	3135	*3135	3135
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Hard Coal	11838	18775	9922	6120	4043	527
Brown Coal	7298	5334	6389	6462	8367	8441
Gas-diesel oil	0	0	0	..	..	..
Fuel oil	1050	646	364	566	1010	606
Natural gas	1651	2419	2710	1697	1142	1270
Total input	21837	27175	19385	14845	14563	10844
Total production	4586	6948	6365	4720	5076	4522
Estimated efficiency (% of production to input)	21	26	33	32	35	42

Statistics on electricity

Lao People's Dem. Rep.

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	15640	16730	25068	33227	36762	31133
Combustible fuels	6	2476	7120	12441	13703	12194
Hydro	15633	14252	17946	20777	22999	18899
Nuclear	..	..	..	..	..	..
Other	1	2	2	9	60	40
Main activity	15640	16730	25068	33227	36762	31133
Combustible fuels	6	2476	7120	12441	13703	12194
Hydro	15633	14252	17946	20777	22999	18899
Nuclear	..	..	..	..	..	..
Other	1	2	2	9	60	40
Own use in electricity, CHP and heat plants	350	229	2	0	1	0
Net production	15290	16501	25066	33227	36761	31133
Imports	1559	2050	787	500	302	1345
Exports	11936	11559	19650	24901	27216	*22460
Losses	1106	2565	1673	3861	*4431	*3424
Consumption	3791	4239	4660	4966	5417	6596
Energy industries own use	..	..	..	..	..	..
By industry and construction	1564	1745	1916	2087	2286	3099
By transport	..	..	..	..	..	..
By households and other cons.	2228	2494	2744	2880	3130	3496
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	3098	5813	6460	6931	7187	8014
Combustible fuels	40	1918	1918	1903	1909	*1909
Hydro	3058	3894	4538	5006	5256	6083
Nuclear	..	..	..	..	..	..
Other	1	2	4	22	22	22
Main activity	3098	5813	6460	6931	7187	8014
Combustible fuels	40	1918	1918	1903	1909	*1909
Hydro	3058	3894	4538	5006	5256	6083
Nuclear	..	..	..	..	..	..
Other	1	2	4	22	22	22
Combustible fuel input	Terajoules					
Brown Coal	..	41605	116303	149008	*154224	*137305
Bagasse	*77	*54	*77	*425	*421	*425
Total input	*77	41659	116380	149432	*154645	*137729
Total production	20	8914	25632	44788	49331	43898
Estimated efficiency (% of production to input)	26	21	22	30	32	32

Statistics on electricity

Latvia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	5139	5533	6425	7531	6725	6438
Combustible fuels	3006	3526	3767	3000	4170	4174
Hydro	1994	1860	2530	4381	2432	2108
Nuclear	..	..	..	..	..	..
Other	139	147	128	150	123	157
Main activity	4884	5276	6214	7337	6535	6251
Combustible fuels	2760	3273	3560	2812	3984	3994
Hydro	1987	1858	2528	4377	2430	2106
Nuclear	..	..	..	..	..	..
Other	137	145	126	148	121	152
Own use in electricity, CHP and heat plants	407	440	498	506	522	476
Net production	4732	5093	5927	7025	6203	5963
Imports	5340	5246	4828	4073	5174	4611
Exports	3023	3425	3795	4137	4265	3493
Losses	465	451	476	474	448	427
Consumption	6582	6461	6482	6485	6662	6652
Energy industries own use	..	..	..	..	..	..
By industry and construction	1667	1703	1667	1763	1842	1846
By transport	117	106	105	105	104	116
By households and other cons.	4798	4652	4710	4617	4717	4690
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2922	2931	2927	2941	2915	2938
Combustible fuels	1265	1275	1292	1299	1270	1270
Hydro	1588	1588	1564	1564	1565	1587
Nuclear	..	..	..	..	..	..
Other	69	68	71	78	80	81
Main activity	2880	2889	2883	2908	2881	2904
Combustible fuels	1224	1234	1251	1268	1239	1241
Hydro	1587	1587	1563	1563	1563	1585
Nuclear	..	..	..	..	..	..
Other	69	68	69	77	78	78
Combustible fuel input	Terajoules					
Hard Coal	169	96	143	50	90	42
Peat	0	0	0	..	85	0
Biogas	2780	3310	3424	3569	3291	3033
Gas-diesel oil	0	0	0	6	4	3
Fuel oil	0	0	0	0	0	0
Liquefied petroleum gas	..	..	..	0	0	0
Other oil products	..	..	..	0	0	0
Natural gas	29896	32244	32978	18586	27058	26417
Fuelwood	7097	8359	10331	11095	11693	11341
Vegetal waste	0	0	0	0	0	0
Others	0	0	0	..	2	..
Total input	39942	44009	46876	33305	42222	40837
Total production	10822	12694	13561	10800	15012	15025
Estimated efficiency (% of production to input)	27	29	29	32	36	37

Statistics on electricity
Lebanon

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	19777	20720	21457	23411	23150	23819
Combustible fuels	19578	20226	21047	22955	22754	22736
Hydro	193	479	382	415	348	965
Nuclear	..	..	..	..	..	..
Other	6	15	28	41	48	118
Main activity	12387	12253	13060	14498	15234	14702
Combustible fuels	12194	11774	12678	14083	14886	13737
Hydro	193	479	382	415	348	965
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	6	15	28	41	48	132
Net production	19771	20705	21429	23370	23102	23687
Imports	136	268	69	534	11	90
Exports	..	..	..	..	..	..
Losses	*1792	*1888	*1935	*2151	*2080	*2140
Consumption	*18116	*19085	*19563	*21753	*21033	21637
Energy industries own use	..	..	..	..	..	..
By industry and construction	*4747	*5001	*5126	*5700	*5511	*5669
By transport	..	..	..	..	..	..
By households and other cons.	*13369	*14084	*14437	*16053	*15522	15968
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	3537	3643	3662	3698	3704	3741
Combustible fuels	3259	3359	3359	3409	3409	3409
Hydro	*274	*274	280	*253	*253	*253
Nuclear	..	..	..	..	..	..
Other	4	10	23	36	42	79
Main activity	2583	2583	2589	2562	2562	2562
Combustible fuels	2309	2309	2309	2309	2309	2309
Hydro	*274	*274	280	*253	*253	*253
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Biogas	..	..	..	..	83	415
Gas-diesel oil	116949	126631	126133	124593	122210	128969
Fuel oil	57087	57173	62844	77415	75581	70782
Natural gas	0	0	..	..	..	..
Total input	174036	183804	188976	202007	197874	200166
Total production	70481	72814	75769	82638	81914	81850
Estimated efficiency (% of production to input)	40	40	40	41	41	41

Statistics on electricity
Lesotho

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	515	532	508	502	517	393
Combustible fuels	..	..	0	*1	1	1
Hydro	515	532	508	501	517	392
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	515	532	508	502	517	393
Combustible fuels	..	..	0	*1	1	1
Hydro	515	532	508	501	517	392
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	1	1	0
Net production	515	532	508	501	517	393
Imports	271	261	373	387	397	542
Exports	3	4	3	1	3	1
Losses	98	122	154	116	115	130
Consumption	675	*694	*765	700	807	791
Energy industries own use	..	..	..	..	..	..
By industry and construction	233	*225	*267	309	320	312
By transport	..	..	..	..	..	..
By households and other cons.	442	*469	*498	391	487	479
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	80	80	81	75	75	75
Combustible fuels	..	..	*1	*1	1	1
Hydro	80	80	80	74	74	74
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Main activity	80	80	81	75	75	75
Combustible fuels	..	..	*1	*1	1	1
Hydro	80	80	80	74	74	74
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Combustible fuel input	Terajoules					
Gas-diesel oil	..	..	*4	*4	*4	7
Total input	..	..	*4	*4	*4	7
Total production	..	..	*1	*2	2	2
Estimated efficiency (% of production to input)	..	..	35	56	54	35

Statistics on electricity
Liberia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*340	*350	*440	*440	*444	*456
Combustible fuels	*300	*310	*400	*397	*318	*322
Hydro	*40	*40	*40	*40	*122	*129
Nuclear	..	..	..	..	..	..
Other	..	..	..	*3	*4	*5
Main activity	*140	*145	*175	*160	*234	*243
Combustible fuels	*100	*105	*135	*117	*108	*109
Hydro	*40	*40	*40	*40	*122	*129
Nuclear	..	..	..	..	..	..
Other	..	..	..	*3	*4	*5
Own use in electricity, CHP and heat plants	*17	*18	*22	*22	*22	*23
Net production	*323	*332	*418	*418	*422	*433
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*33	*33	*42	*42	*42	*43
Consumption	*290	*299	*376	*376	*380	*390
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*290	*299	*376	*376	*380	*390
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*102	*102	*107	*111	*195	*195
Combustible fuels	*93	*93	*98	*100	*100	*100
Hydro	*9	*9	*9	*9	*92	*92
Nuclear	..	..	..	..	..	..
Other	..	..	0	*2	*3	*3
Main activity	*32	*32	37	*41	*125	*125
Combustible fuels	*23	*23	28	*30	*30	*30
Hydro	*9	*9	*9	*9	*92	*92
Nuclear	..	..	..	..	..	..
Other	..	..	0	*2	*3	*3
Combustible fuel input	Terajoules					
Gas-diesel oil	*2752	*3225	*4160	*3870	*3311	*3354
Fuel oil	*404	0	0	..	..	..
Total input	*3156	*3225	*4160	*3870	*3311	*3354
Total production	*1080	*1116	*1440	*1429	*1145	*1159
Estimated efficiency (% of production to input)	34	35	35	37	35	35

Statistics on electricity

Libya

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	37731	37511	31420	33282	34172	33719
Combustible fuels	37723	37503	31412	33274	34164	33711
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	8	8	8	8	8	8
Main activity	37731	37511	31420	33282	34172	33719
Combustible fuels	37723	37503	31412	33274	34164	33711
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	8	8	8	8	8	8
Own use in electricity, CHP and heat plants	632	731	1004	999	843	802
Net production	37099	36780	30416	32284	33328	32918
Imports	88	..	376	302	465	465
Exports	0	..	..	..	..	..
Losses	7186	7127	6327	6683	6893	6801
Consumption	17019	15282	13988	14133	17605	17864
Energy industries own use	..	..	..	..	..	..
By industry and construction	1560	1892	1213	1225	1169	1186
By transport	..	..	..	..	..	..
By households and other cons.	15459	13390	12775	12908	16436	16678
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	9460	9460	10249	10243	10516	10516
Combustible fuels	9455	9455	10244	10238	10511	10511
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	5	5	5	5	5	5
Main activity	9460	9460	10249	10243	10516	10516
Combustible fuels	9455	9455	10244	10238	10511	10511
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	5	5	5	5	5	5
Combustible fuel input	Terajoules					
Gas-diesel oil	134246	134246	52632	79206	85152	84765
Fuel oil	36602	36602	32845	24278	31431	26061
Natural gas	216420	231270	266071	266448	261466	263244
Total input	387268	402118	351548	369932	378048	374071
Total production	135803	135011	113083	119786	122989	121360
Estimated efficiency (% of production to input)	35	34	32	32	33	32

Statistics on electricity
Liechtenstein

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	41	70	90	93	89	103
Combustible fuels	3	2	2	2	2	2
Hydro	22	49	68	69	62	75
Nuclear	..	..	..	..	..	..
Other	17	19	20	22	25	26
Main activity	41	70	90	93	89	103
Combustible fuels	3	2	2	2	2	2
Hydro	22	49	68	69	62	75
Nuclear	..	..	..	..	..	..
Other	17	19	20	22	25	26
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	41	70	90	93	89	103
Imports	355	325	309	314	321	307
Exports	..	..	..	..	..	..
Losses	..	..	..	..	..	..
Consumption	396	395	399	407	410	410
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	396	395	399	407	410	410
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*22	*22	*23	*24	*26	*27
Combustible fuels	1	*1	*1	*1	*1	*1
Hydro	*10	*10	*10	*10	*10	*10
Nuclear	..	..	..	..	..	..
Other	*11	*11	*12	*13	*15	*16
Main activity	*22	*22	*23	*24	*26	*27
Combustible fuels	1	*1	*1	*1	*1	*1
Hydro	*10	*10	*10	*10	*10	*10
Nuclear	..	..	..	..	..	..
Other	*11	*11	*12	*13	*15	*16
Combustible fuel input	Terajoules					
Biogas	0	0	*1	*1	0	*1
Natural gas	*28	*25	*26	*25	*20	*21
Municipal waste	0	0	0	0	0	0
Total input	*28	*25	*27	*26	*20	*22
Total production	9	8	9	8	6	8
Estimated efficiency (% of production to input)	32	32	32	32	32	34

Statistics on electricity

Lithuania

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	4397	4933	4266	4187	3511	3972
Combustible fuels	2354	2761	1750	1324	1089	1210
Hydro	1088	1024	1044	1181	960	948
Nuclear	..	..	..	..	..	..
Other	955	1148	1472	1682	1462	1814
Main activity	3661	4002	3378	3361	2864	3151
Combustible fuels	1861	2095	1132	748	674	612
Hydro	1088	1024	1044	1181	960	948
Nuclear	..	..	..	..	..	..
Other	712	883	1202	1432	1231	1591
Own use in electricity, CHP and heat plants	253	257	215	191	197	207
Net production	4144	4676	4051	3996	3314	3765
Imports	8521	7938	11106	11926	12848	13268
Exports	898	730	2831	3249	3215	3924
Losses	815	793	907	914	935	886
Consumption	10949	11089	11416	11757	12010	12219
Energy industries own use	1712	1747	1666	1697	1611	1678
By industry and construction	3119	3313	3417	3635	3686	3794
By transport	63	67	72	74	80	78
By households and other cons.	6055	5962	6261	6350	6633	6670
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	4037	3587	3665	3326	3354	3378
Combustible fuels	2778	2180	2184	1832	1837	1839
Hydro	877	877	877	877	877	877
Nuclear	..	..	..	..	..	..
Other	382	530	604	617	640	662
Main activity	3764	3313	3387	3046	3074	3096
Combustible fuels	2530	1931	1931	1577	1582	1582
Hydro	877	877	877	877	877	877
Nuclear	..	..	..	..	..	..
Other	357	505	579	592	615	637
Combustible fuel input	Terajoules					
Hard Coal	0	0	0	0	0	0
Peat	35	0	0	0	0	0
Biogas	603	669	996	1004	1209	1264
Gas-diesel oil	0	0	0	0	0	0
Fuel oil	1414	2060	1091	634	606	263
Refinery gas	99	198	396	282	366	198
Natural gas	24187	21472	14542	11180	9045	8339
Fuelwood	*6060	*6365	*5911	*7192	*7887	*7835
Municipal waste	975	1312	2480	2443	1678	1503
Industrial waste	258	290	486	181	584	665
Others	0	0	0	0	0	0
Total input	33631	32366	25902	22916	21375	20067
Total production	8474	9940	6300	4766	3921	4357
Estimated efficiency (% of production to input)	25	31	24	21	18	22

Statistics on electricity

Luxembourg

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	2966	2766	2196	2235	2201	1908
Combustible fuels	1622	1030	467	470	490	547
Hydro	1169	1530	1528	1422	1337	949
Nuclear	..	..	..	..	..	..
Other	175	206	201	343	374	412
Main activity	2695	2492	1911	1957	1918	1623
Combustible fuels	1452	866	290	304	331	397
Hydro	1163	1524	1520	1418	1332	944
Nuclear	..	..	..	..	..	..
Other	80	102	101	235	255	281
Own use in electricity, CHP and heat plants	28	28	28	30	30	31
Net production	2938	2738	2168	2205	2171	1877
Imports	6961	7519	7718	7567	7553	6818
Exports	2067	1919	1420	1389	1392	939
Losses	153	158	158	156	155	156
Consumption	7677	8176	8310	8228	8177	7600
Energy industries own use	1496	1951	1943	1834	1717	1203
By industry and construction	3075	3145	3432	3008	3087	3025
By transport	124	139	138	142	144	146
By households and other cons.	2982	2941	2797	3245	3228	3225
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2022	2024	1710	1709	1715	1778
Combustible fuels	524	514	138	130	131	152
Hydro	1330	1330	1330	1331	1330	1330
Nuclear	..	..	..	..	..	..
Other	168	180	242	248	254	296
Main activity	1851	1844	1509	1523	1530	1563
Combustible fuels	465	452	61	75	79	99
Hydro	1328	1328	1328	1328	1328	1328
Nuclear	..	..	..	..	..	..
Other	58	64	120	120	123	136
Combustible fuel input	Terajoules					
Biogas	384	395	448	447	485	483
Gas-diesel oil	0	0	43	8	4	5
Natural gas	12598	7918	3620	3215	2769	2695
Fuelwood	*525	*598	*612	*1122	*1976	*3376
Municipal waste	1171	1365	1400	1557	1552	1567
Total input	14678	10276	6123	6349	6785	8126
Total production	5839	3708	1681	1692	1763	1970
Estimated efficiency (% of production to input)	40	36	27	27	26	24

Statistics on electricity
Madagascar

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1670	1728	1886	1994	2095	2162
Combustible fuels	774	777	980	1182	1104	1244
Hydro	884	935	887	789	968	886
Nuclear	..	..	..	..	..	..
Other	13	16	20	23	*23	32
Main activity	1500	1558	1671	1725	1820	1892
Combustible fuels	604	607	765	913	829	974
Hydro	884	935	887	789	968	886
Nuclear	..	..	..	..	..	..
Other	13	16	20	23	*23	32
Own use in electricity, CHP and heat plants	*38	*41	*46	49	25	28
Net production	1633	1687	1840	1945	2070	2134
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*105	*110	116	128	*130	*135
Consumption	1540	1593	1757	1825	*1940	1999
Energy industries own use	..	..	..	..	..	..
By industry and construction	*537	*544	416	442	608	533
By transport	..	..	..	..	..	..
By households and other cons.	1003	1049	1342	1383	*1332	1466
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*549	*552	536	675	658	546
Combustible fuels	*379	*379	366	496	473	361
Hydro	163	164	159	166	165	165
Nuclear	..	..	..	..	..	..
Other	7	9	11	13	20	20
Main activity	*517	*520	496	615	598	486
Combustible fuels	*347	*347	326	436	413	301
Hydro	163	164	159	166	165	165
Nuclear	..	..	..	..	..	..
Other	7	9	11	13	20	20
Combustible fuel input	Terajoules					
Hard Coal	*697	*722	712	963	851	955
Gas-diesel oil	3474	4795	5865	4687	*4257	*5031
Fuel oil	*1939	*1818	2182	5292	5414	5858
Bagasse	..	..	336	368	333	357
Total input	6110	7335	9095	11310	10855	12201
Total production	2786	2799	3528	4255	3973	4477
Estimated efficiency (% of production to input)	46	38	39	38	37	37

Statistics on electricity

Malawi

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*2167	2245	2233	2142	*1997	*2321
Combustible fuels	*181	*183	*183	*183	*185	*189
Hydro	*1970	2037	2025	1920	*1765	*2085
Nuclear	..	..	..	..	..	..
Other	16	25	25	39	47	*47
Main activity	*1986	2062	2050	1959	*1812	*2132
Combustible fuels	*5	*5	*5	*5	*5	*5
Hydro	*1965	2032	2020	1915	*1760	*2080
Nuclear	..	..	..	..	..	..
Other	16	25	25	39	47	*47
Own use in electricity, CHP and heat plants	*110	120	106	*183	*155	*134
Net production	*2057	2125	2127	1959	*1842	*2187
Imports	..	..	..	..	..	..
Exports	24	22	24	20	19	20
Losses	*315	*394	*248	*459	*389	*434
Consumption	1718	1559	1855	1329	1384	1633
Energy industries own use	..	..	..	..	..	..
By industry and construction	709	691	971	573	492	761
By transport	..	..	..	..	..	..
By households and other cons.	1009	868	884	756	892	872
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	575	579	579	586	601	603
Combustible fuels	*212	*211	*211	*211	*211	*211
Hydro	355	356	356	356	367	369
Nuclear	..	..	..	..	..	..
Other	8	12	12	19	23	23
Main activity	361	364	364	371	386	388
Combustible fuels	*2	*1	*1	*1	*1	*1
Hydro	351	351	351	351	362	364
Nuclear	..	..	..	..	..	..
Other	8	12	12	19	23	23
Combustible fuel input	Terajoules					
Gas-diesel oil	*1886	*1829	*1904	*1905	*1943	1982
Bagasse	*1116	*934	*903	*903	*903	*903
Total input	*3002	*2764	*2808	*2808	*2847	2886
Total production	*652	*658	*658	*658	*666	*679
Estimated efficiency (% of production to input)	22	24	23	23	23	24

Statistics on electricity
Malaysia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	147461	150123	156665	164509	170578	175778
Combustible fuels	133846	135926	136336	137599	143621	148168
Hydro	13388	13924	20019	26580	26325	26666
Nuclear	..	..	..	..	..	..
Other	227	273	310	330	632	*943
Main activity	142788	145137	150442	159257	163415	168194
Combustible fuels	129173	130940	130113	132352	136517	140670
Hydro	13388	13924	20019	26575	26325	26666
Nuclear	..	..	..	..	..	..
Other	227	273	310	330	573	*857
Own use in electricity, CHP and heat plants	2885	4043	1317	4588	696	5974
Net production	144576	146080	155348	159921	169882	169804
Imports	23	13	33	7	20	19
Exports	12	3	694	1124	1509	669
Losses	15585	12535	10102	12288	14109	12124
Consumption	128333	132199	144024	146520	152866	158703
Energy industries own use	..	..	..	..	..	..
By industry and construction	58948	60641	67664	71417	76088	79436
By transport	256	266	340	459	482	503
By households and other cons.	69129	71292	76020	74644	76296	78764
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	29974	30440	33090	33334	34389	*34153
Combustible fuels	25040	23519	25732	26848	26432	*26260
Hydro	4773	5716	6137	6128	6168	6245
Nuclear	..	..	..	..	..	..
Other	161	1205	1220	358	1790	1648
Main activity	27623	27368	29789	30892	31714	*31699
Combustible fuels	22695	21309	23226	24410	24479	*24498
Hydro	4768	5714	6135	6126	6168	6245
Nuclear	..	..	..	..	..	..
Other	160	345	427	356	1066	956
Combustible fuel input	Terajoules					
Hard Coal	571404	654254	710051	794090	857092	894234
Gas-diesel oil	27391	13975	8944	15781	14448	15067
Fuel oil	10948	4121	6302	4040	687	724
Natural gas	650113	711320	600958	540161	536208	606454
Vegetal waste	9346	9878	9878	*8196	12581	12624
Total input	1269202	1393548	1336134	1362268	1421016	1529103
Total production	481846	489334	490810	495356	517036	533406
Estimated efficiency (% of production to input)	38	35	37	36	36	35

Statistics on electricity
Maldives

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	543	619	672	725	772	847
Combustible fuels	535	611	660	709	756	823
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	8	8	12	16	16	24
Main activity	335	394	432	465	492	547
Combustible fuels	327	386	420	449	476	523
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	8	8	12	16	16	24
Own use in electricity, CHP and heat plants	*18	*19	*21	*21	*21	*22
Net production	525	600	651	704	751	825
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*16	*18	*20	*20	*21	*22
Consumption	*509	*582	*631	*684	*730	*803
Energy industries own use	..	..	..	..	..	..
By industry and construction	*33	*33	*35	*37	*39	*40
By transport	..	..	..	..	..	..
By households and other cons.	*476	*549	*596	*647	*691	*763
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	271	271	274	*277	*376	544
Combustible fuels	266	266	266	*266	*365	529
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	5	5	8	11	11	15
Main activity	146	146	149	*152	*251	334
Combustible fuels	141	141	141	*141	*240	319
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	5	5	8	11	11	15
Combustible fuel input	Terajoules					
Gas-diesel oil	*6695	*7310	*7433	*8109	*8790	*9460
Total input	*6695	*7310	*7433	*8109	*8790	*9460
Total production	1926	2201	2376	2552	2722	2963
Estimated efficiency (% of production to input)	29	30	32	31	31	31

Statistics on electricity

Mali

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	2104	2370	2613	*3068	*3261	*3298
Combustible fuels	1107	1356	1509	*1935	*2128	*2152
Hydro	997	1012	1102	1130	*1130	*1143
Nuclear	..	..	..	..	..	..
Other	..	2	2	3	*3	*4
Main activity	1574	1712	1905	2082	*2083	*2107
Combustible fuels	577	698	801	949	*950	*961
Hydro	997	1012	1102	1130	*1130	*1143
Nuclear	..	..	..	..	..	..
Other	..	2	2	3	*3	*4
Own use in electricity, CHP and heat plants	*9	*10	*11	*12	*13	*13
Net production	2095	2360	2602	*3056	*3248	*3285
Imports	*512	*317	113	*117	*198	*200
Exports	*479	*486	*529	*535	*550	*556
Losses	*339	*288	*311	*318	*356	*360
Consumption	1785	*1903	*1875	*2320	*2540	*2569
Energy industries own use	..	..	..	..	..	..
By industry and construction	810	*823	*715	*920	*1010	*1021
By transport	..	..	..	..	..	..
By households and other cons.	975	*1080	*1160	*1400	*1530	*1548
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*854	*855	*941	*1012	*1012	*1015
Combustible fuels	*404	*404	*490	*560	*560	*560
Hydro	*450	*450	*450	*450	*450	*450
Nuclear	..	..	..	..	..	..
Other	..	*1	*1	*2	*2	*5
Main activity	*740	*741	*741	*752	*752	*755
Combustible fuels	*290	*290	*290	*300	*300	*300
Hydro	*450	*450	*450	*450	*450	*450
Nuclear	..	..	..	..	..	..
Other	..	*1	*1	*2	*2	*5
Combustible fuel input	Terajoules					
Gas-diesel oil	18275	*19350	*13115	*17200	*19608	*19935
Bagasse	1457	*1457	1457	*1457	*1457	*1457
Total input	19732	*20807	*14572	*18657	*21065	*21392
Total production	3984	4882	5432	*6965	*7661	*7745
Estimated efficiency (% of production to input)	20	23	37	37	36	36

Statistics on electricity

Malta

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	2245	1305	857	1652	1961	2076
Combustible fuels	2177	1210	729	1489	1772	1864
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	68	95	128	162	189	212
Main activity	2170	1203	721	1480	1763	1858
Combustible fuels	2170	1203	721	1480	1763	1858
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	108	64	51	49	50	59
Net production	2137	1241	806	1603	1911	2017
Imports	..	1054	1527	897	631	657
Exports	..	..	..	36	11	20
Losses	132	179	216	144	143	158
Consumption	2005	2114	2117	2320	2389	2496
Energy industries own use	..	..	..	3	3	2
By industry and construction	406	415	411	459	478	485
By transport	..	..	..	0	1	2
By households and other cons.	1599	1699	1706	1858	1907	2007
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	678	668	573	706	726	748
Combustible fuels	623	593	480	595	595	595
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	55	75	94	112	131	154
Main activity	620	590	475	590	590	590
Combustible fuels	620	590	475	590	590	590
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Biogas	37	46	42	46	42	31
Gas-diesel oil	2322	860	129	252	224	410
Fuel oil	18665	10262	7151	1913	0	..
Natural gas	..	..	..	10776	13602	14217
Total input	21024	11168	7322	12987	13868	14657
Total production	7837	4356	2624	5362	6381	6712
Estimated efficiency (% of production to input)	37	39	36	41	46	46

Statistics on electricity

Marshall Islands

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*86	*87	*88	*89	*90	*90
Combustible fuels	*85	*86	*86	*87	*88	*88
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	2	2	2	2
Main activity	*86	*87	*88	*89	*90	*90
Combustible fuels	*85	*86	*86	*87	*88	*88
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	2	2	2	2
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	*86	*87	*88	*89	*90	*90
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*11	*11	*11	*12	*12	*12
Consumption	*75	*75	*76	*78	*78	*78
Energy industries own use	..	..	..	..	..	..
By industry and construction	*3	*3	*4	*4	*4	*4
By transport	..	..	..	..	..	..
By households and other cons.	*72	*72	*73	*74	*74	*75
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	34	37	*38	*39	*39	*39
Combustible fuels	33	36	*36	*37	*37	*37
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	2	2	2	2
Main activity	34	37	*38	*39	*39	*39
Combustible fuels	33	36	*36	*37	*37	*37
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	2	2	2	2
Combustible fuel input	Terajoules					
Gas-diesel oil	*796	*817	*817	*834	*843	*843
Total input	*796	*817	*817	*834	*843	*843
Total production	*306	*308	*308	*314	*315	*316
Estimated efficiency (% of production to input)	38	38	38	38	37	37

Statistics on electricity

Mauritania

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	851	975	1042	1183	1271	1347
Combustible fuels	808	841	875	1022	1023	1099
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	43	134	168	161	248	*248
Main activity	525	662	683	841	925	997
Combustible fuels	482	528	515	680	677	749
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	43	134	168	161	248	*248
Own use in electricity, CHP and heat plants	25	35	63	95	95	73
Net production	826	940	979	1088	1176	1275
Imports	183	183	221	*185	198	204
Exports	..	..	57	..	..	..
Losses	*172	*190	*192	*210	*230	*217
Consumption	844	932	941	982	1023	1099
Energy industries own use	..	..	..	..	..	..
By industry and construction	326	360	357	343	342	372
By transport	..	..	..	..	..	..
By households and other cons.	519	572	584	639	681	728
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	240	444	*461	*506	*570	*608
Combustible fuels	218	392	*392	*421	*449	*486
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	22	52	69	85	121	122
Main activity	161	364	*381	*426	*485	*518
Combustible fuels	139	312	*312	*341	*364	*396
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	22	52	69	85	121	122
Combustible fuel input	Terajoules					
Gas-diesel oil	5173	*5616	*5031	*7310	*7740	*7955
Fuel oil	2784	2630	*2674	*2771	*2020	*2424
Total input	7956	*8246	*7705	*10081	*9760	*10379
Total production	2907	3028	3148	3678	3683	3956
Estimated efficiency (% of production to input)	37	37	41	36	38	38

Statistics on electricity
Mauritius

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	2936	2996	3042	3120	3132	3237
Combustible fuels	2817	2845	2894	2976	2943	2994
Hydro	91	122	100	90	125	99
Nuclear	..	..	..	..	..	..
Other	28	29	48	54	64	144
Main activity	1175	1258	1215	1277	1350	1462
Combustible fuels	1081	1133	1112	1184	1223	1361
Hydro	91	122	100	90	125	99
Nuclear	..	..	..	..	..	..
Other	3	3	4	3	3	3
Own use in electricity, CHP and heat plants	42	44	45	44	44	45
Net production	2894	2952	2998	3076	3088	3192
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	182	178	172	187	165	182
Consumption	2708	2770	2815	2880	2918	3001
Energy industries own use	256	264	260	266	268	247
By industry and construction	687	696	706	727	734	744
By transport	..	..	..	..	..	..
By households and other cons.	1765	1809	1848	1886	1916	2010
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	782	792	847	836	873	844
Combustible fuels	702	711	749	736	735	684
Hydro	61	61	61	60	60	60
Nuclear	..	..	..	..	..	..
Other	19	20	38	40	78	100
Main activity	490	489	499	513	512	512
Combustible fuels	428	427	437	452	450	450
Hydro	61	61	61	60	60	60
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	1	1
Combustible fuel input	Terajoules					
Hard Coal	18344	17647	18091	18871	17916	16464
Biogas	*70	73	67	61	81	71
Gas-diesel oil	43	43	45	55	34	28
Fuel oil	8928	9292	8696	9672	9991	11034
Other kerosene	44	44	34	41	28	162
Bagasse	7954	9575	8722	8324	7791	7736
Total input	35383	36675	35654	37025	35842	35495
Total production	10142	10242	10420	10714	10593	10779
Estimated efficiency (% of production to input)	29	28	29	29	30	30

Statistics on electricity

Mexico

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	301496	310712	320565	322063	357593	344176
Combustible fuels	240279	253005	262310	261726	279725	266753
Hydro	38893	30815	30698	31982	32526	23716
Nuclear	9677	11577	10567	10883	13675	11190
Other	12647	15315	16990	17472	31667	42517
Main activity	258258	262721	266201	259078	292942	284294
Combustible fuels	202346	212385	217231	209160	226758	220287
Hydro	38145	30051	29805	31040	31621	22927
Nuclear	9677	11577	10567	10883	13675	11190
Other	8090	8708	8598	7995	20888	29890
Own use in electricity, CHP and heat plants	11446	12935	17689	13130	13466	13486
Net production	290050	297777	302876	308933	344126	330690
Imports	2124	1650	2232	2151	3673	3907
Exports	2653	2320	1968	1804	2426	3084
Losses	41322	40640	40002	43915	43915	40018
Consumption	256779	261850	274210	275859	277778	284167
Energy industries own use	4559	4400	3843	3938	4185	4092
By industry and construction	142326	139990	145945	147465	146474	153433
By transport	1130	1134	1140	1077	1072	1106
By households and other cons.	108764	116326	123282	123379	126047	125537
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	66255	67504	72574	74431	89351	92286
Combustible fuels	48893	49421	53047	54388	62010	63521
Hydro	12464	12223	12580	12628	12643	13301
Nuclear	1400	1510	1608	1608	1634	1721
Other	3498	4350	5339	5807	13064	13743
Main activity	54379	54856	55904	57536	76423	80473
Combustible fuels	39294	39735	40280	41616	53963	56823
Hydro	12269	12028	12348	12395	12418	13076
Nuclear	1400	1510	1608	1608	1634	1721
Other	1416	1583	1668	1917	8408	8853
Combustible fuel input	Terajoules					
Hard Coal	150551	146312	169061	205979	183718	201282
Brown Coal	200358	206785	198168	133446	120895	99833
Biogas	1939	1961	1912	2265	2082	2195
Gas-diesel oil	21371	21586	27606	31820	40936	34701
Fuel oil	300010	254762	282194	306838	265711	325584
Petroleum coke	39910	39163	29803	38350	37863	39520
Natural gas	1484833	1609427	1684576	1782417	1698244	1500693
Blast furnace gas	4620	5592	4677	3470	2452	2060
Bagasse	*71126	*68416	*70268	*56085	*76074	*79090
Industrial waste	861	473	552	897	1010	1067
Others	5704	5711	4389	2747	397	668
Total input	2281284	2360188	2473205	2564315	2429381	2286692
Total production	865004	910818	944316	942214	1007009	960311
Estimated efficiency (% of production to input)	38	39	38	37	41	42

Statistics on electricity

Micronesia (Fed. States of)

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	69	67	*68	*67	*69	*69
Combustible fuels	68	66	*66	*65	*65	*65
Hydro	0	0	0	0	0	0
Nuclear	..	..	..	..	..	..
Other	1	1	2	2	4	4
Main activity	69	67	*68	*67	*69	*69
Combustible fuels	68	66	*66	*65	*65	*65
Hydro	0	0	0	0	0	0
Nuclear	..	..	..	..	..	..
Other	1	1	2	2	4	4
Own use in electricity, CHP and heat plants	3	1	2	*2	*2	*3
Net production	66	66	*65	*65	*66	*67
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*15	*19	*19	*20	*21	*21
Consumption	*51	46	*46	*46	*46	*46
Energy industries own use	..	..	..	..	..	..
By industry and construction	*14	15	*15	*15	*15	*15
By transport	..	..	..	..	..	..
By households and other cons.	*38	31	*31	*31	*31	*31
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	34	*34	*34	*34	*36	*36
Combustible fuels	32	*32	*32	*32	*32	*32
Hydro	2	2	2	*2	*2	*2
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	3	3
Main activity	34	*34	*34	*34	*36	*36
Combustible fuels	32	*32	*32	*32	*32	*32
Hydro	2	2	2	*2	*2	*2
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	3	3
Combustible fuel input	Terajoules					
Gas-diesel oil	*774	834	*834	*830	*830	*826
Total input	*774	834	*834	*830	*830	*826
Total production	243	236	*236	*235	*233	*233
Estimated efficiency (% of production to input)	31	28	28	28	28	28

Statistics on electricity
Mongolia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	5578	5513	5667	6027	6535	6900
Combustible fuels	5376	5290	5413	5759	6055	6416
Hydro	68	61	87	86	81	*85
Nuclear	..	..	..	..	..	..
Other	134	162	167	182	399	*399
Main activity	5510	5452	5580	5941	6454	6815
Combustible fuels	5376	5290	5413	5759	6055	6416
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	134	162	167	182	399	*399
Own use in electricity, CHP and heat plants	975	778	749	816	849	861
Net production	4603	4735	4918	5211	5686	6040
Imports	1349	1417	1446	1574	1666	1723
Exports	33	51	36	26	27	24
Losses	793	783	817	811	875	892
Consumption	5159	5284	5446	5949	6450	6847
Energy industries own use	..	..	..	..	..	..
By industry and construction	3172	3261	3356	3692	4003	4249
By transport	211	217	223	248	268	285
By households and other cons.	1776	1806	1867	2009	2178	2313
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*1175	*1175	*1199	1311	*1461	*1486
Combustible fuels	*1092	*1092	*1103	1132	*1210	*1210
Hydro	26	26	29	29	31	31
Nuclear	..	..	..	..	..	..
Other	57	57	67	150	220	245
Main activity	*1139	*1139	*1160	1272	*1420	*1445
Combustible fuels	*1082	*1082	*1093	1122	*1200	*1200
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	57	57	67	150	220	245
Combustible fuel input	Terajoules					
Hard Coal	38740	40417	42227	51712	63440	45811
Brown Coal	76185	75744	75391	78587	79093	87952
Gas-diesel oil	3311	3182	2662	3913	4124	*4356
Fuel oil	125	129	105	89	121	121
Total input	118361	119472	120385	134301	146777	138240
Total production	19354	19045	19487	20733	21799	23099
Estimated efficiency (% of production to input)	16	16	16	15	15	17

Statistics on electricity

Montenegro

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	3173	3003	3141	2483	3679	3423
Combustible fuels	1421	1512	1298	1348	1444	1506
Hydro	1752	1491	1843	1040	2092	1621
Nuclear	..	..	..	..	..	..
Other	..	..	..	95	143	296
Main activity	3173	3003	3141	2483	3679	3423
Combustible fuels	1421	1512	1298	1348	1444	1506
Hydro	1752	1491	1843	1040	2092	1621
Nuclear	..	..	..	..	..	..
Other	..	..	..	95	143	296
Own use in electricity, CHP and heat plants	135	131	118	119	134	129
Net production	3038	2872	3023	2364	3546	3294
Imports	903	1040	1210	1537	780	1196
Exports	642	517	906	417	976	943
Losses	689	586	541	512	503	493
Consumption	2610	2679	2671	2855	2847	3054
Energy industries own use	..	..	..	..	..	..
By industry and construction	760	767	660	732	737	699
By transport	18	20	21	20	19	21
By households and other cons.	1832	1892	1990	2103	2090	2335
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	870	870	870	949	999	1001
Combustible fuels	219	219	219	225	225	225
Hydro	651	651	651	652	652	652
Nuclear	..	..	..	..	..	..
Other	..	..	..	72	121	123
Main activity	870	870	870	949	999	1001
Combustible fuels	219	219	219	225	225	225
Hydro	651	651	651	652	652	652
Nuclear	..	..	..	..	..	..
Other	..	..	..	72	121	123
Combustible fuel input	Terajoules					
Brown Coal	14708	15362	12028	12341	14816	15109
Total input	14708	15362	12028	12341	14816	15109
Total production	5116	5443	4673	4853	5198	5423
Estimated efficiency (% of production to input)	35	35	39	39	35	36

Statistics on electricity

Montserrat

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	13	13	14	13	14	14
Combustible fuels	13	13	14	13	14	14
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	0
Main activity	13	13	14	13	14	14
Combustible fuels	13	13	14	13	14	14
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	0
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	12	13	13	13	14	14
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	0	0	1	0	1	0
Consumption	10	11	11	11	11	12
Energy industries own use	..	..	..	..	..	..
By industry and construction	0	0	0	0	0	0
By transport	..	..	..	..	..	..
By households and other cons.	10	11	11	11	11	12
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	6	5	5	5	5	6
Combustible fuels	6	5	5	5	5	5
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	0
Main activity	6	5	5	5	5	6
Combustible fuels	6	5	5	5	5	5
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	0
Combustible fuel input	Terajoules					
Gas-diesel oil	*181	*184	*194	*172	*186	*168
Total input	*181	*184	*194	*172	*186	*168
Total production	45	46	49	48	51	50
Estimated efficiency (% of production to input)	25	25	25	28	27	30

Statistics on electricity

Morocco

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	29384	31217	32141	33192	35822	41650
Combustible fuels	24125	25108	25776	26875	27731	32414
Hydro	2033	2282	1662	1565	1998	1654
Nuclear	..	..	..	..	..	..
Other	3226	3827	4703	4752	6093	7583
Main activity	27945	29855	30839	31890	34519	40348
Combustible fuels	23988	25048	25776	26875	27731	32414
Hydro	2033	2282	1662	1565	1998	1654
Nuclear	..	..	..	..	..	..
Other	1924	2525	3401	3450	4791	6281
Own use in electricity, CHP and heat plants	44	52	50	60	42	41
Net production	29340	31165	32091	33132	35779	41610
Imports	6138	5138	5289	6058	3724	526
Exports	128	165	135	161	350	1453
Losses	5197	5515	5654	6066	6134	6703
Consumption	30153	30624	31592	32962	33020	33979
Energy industries own use	899	685	529	510	406	527
By industry and construction	10659	10864	11190	11825	12065	12431
By transport	332	345	352	368	375	386
By households and other cons.	18263	18730	19521	20259	20175	20634
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	11294	11455	11561	12120	12350	13977
Combustible fuels	8727	8727	8732	9128	9151	10276
Hydro	1770	1770	1770	1770	1770	1770
Nuclear	..	..	..	..	..	..
Other	797	958	1059	1222	1429	1931
Main activity	7994	8155	8261	8820	9050	10677
Combustible fuels	5427	5427	5432	5828	5851	6976
Hydro	1770	1770	1770	1770	1770	1770
Nuclear	..	..	..	..	..	..
Other	797	958	1059	1222	1429	1931
Combustible fuel input	Terajoules					
Hard Coal	*171048	*188077	178592	185656	214785	278225
Gas-diesel oil	645	430	516	416	255	186
Fuel oil	*28765	*23917	31148	34721	12420	6496
Natural gas	42865	43985	45068	44651	39792	37016
Total input	*243323	*256409	255324	265445	267252	321924
Total production	86850	90389	92794	96749	99830	116690
Estimated efficiency (% of production to input)	36	35	36	36	37	36

Statistics on electricity
Mozambique

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	17739	19641	18697	17641	17140	18981
Combustible fuels	1379	2547	3103	3581	3239	4021
Hydro	16359	17093	15592	14058	13899	14930
Nuclear	..	..	..	..	..	..
Other	1	1	2	2	1	31
Main activity	17271	19471	18620	17394	16927	18759
Combustible fuels	1379	2493	3045	3335	3027	3799
Hydro	15892	16978	15575	14058	13899	14930
Nuclear	..	..	..	..	..	..
Other	..	..	..	2	1	31
Own use in electricity, CHP and heat plants	238	238	58	246	234	247
Net production	17501	19403	18639	17394	16906	18734
Imports	7656	10547	9928	8289	8327	8276
Exports	10199	12876	14269	10010	9738	10771
Losses	2612	5080	2480	2603	2663	2768
Consumption	12342	12180	11383	12346	12437	12952
Energy industries own use	..	..	..	103	93	116
By industry and construction	10651	9800	9100	10307	10416	10557
By transport	..	..	..	..	..	..
By households and other cons.	1691	2380	2283	1936	1928	2279
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2682	2508	2491	*2741	*2744	*2814
Combustible fuels	359	410	412	*415	*440	*480
Hydro	2322	2097	2078	*2311	*2264	*2264
Nuclear	..	..	..	..	..	..
Other	1	1	1	*15	*40	*70
Main activity	2596	2460	2460	*2711	*2714	*2774
Combustible fuels	359	385	385	*385	*410	*440
Hydro	2237	2075	2075	*2311	*2264	*2264
Nuclear	..	..	..	..	..	..
Other	..	..	..	*15	*40	*70
Combustible fuel input	Terajoules					
Gas-diesel oil	..	215	215	52	47	44
Fuel oil	..	..	..	5671	2267	1250
Natural gas	16137	23573	24356	25469	25710	29940
Bagasse	..	..	..	3201	3130	2944
Total input	16137	23788	24571	34392	31154	34178
Total production	4964	9168	11172	12892	11661	14476
Estimated efficiency (% of production to input)	31	39	45	37	37	42

Statistics on electricity

Myanmar

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	15626	17212	20248	20055	22883	23778
Combustible fuels	5328	6573	8123	8864	11641	14328
Hydro	10298	10639	12125	11191	11228	9369
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	14	81
Main activity	13570	15193	17218	13557	10487	9363
Combustible fuels	3828	5129	5734	3116	2862	3399
Hydro	9742	10064	11484	10441	7625	5964
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	1622	1242	2381	136	184	205
Net production	14005	15970	17867	19919	22699	23573
Imports	..	..	..	116	152	122
Exports	..	..	..	1393	1527	1281
Losses	2750	2414	2385	2803	3405	3734
Consumption	11255	13397	15355	15839	17919	18681
Energy industries own use	..	..	..	..	..	..
By industry and construction	7142	2145	2120	2773	4581	5553
By transport	..	..	..	..	..	..
By households and other cons.	4113	11252	13235	13066	13338	13128
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	4805	5259	5390	5642	5838	7129
Combustible fuels	1620	2076	2135	2387	2536	3827
Hydro	3185	3183	3255	3255	3262	3262
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	40	40
Main activity	4177	4631	4590	4288	3144	3410
Combustible fuels	1164	1620	1507	1205	993	1259
Hydro	3013	3011	3083	3083	2151	2151
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Hard Coal	619	465	*1047	*6373	21934	32145
Gas-diesel oil	4300	4322	6807	4597	860	1247
Natural gas	71842	89943	123472	126111	126322	171094
Total input	76761	94730	131326	137081	149116	204486
Total production	19181	23663	29243	31912	41908	51581
Estimated efficiency (% of production to input)	25	25	22	23	28	25

Statistics on electricity
Namibia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1530	1576	1479	1694	1307	1052
Combustible fuels	13	34	62	66	21	52
Hydro	1485	1502	1359	1593	1144	954
Nuclear	..	..	..	..	..	..
Other	32	40	58	*35	142	46
Main activity	1530	1576	1479	1694	1307	1052
Combustible fuels	13	34	62	66	21	52
Hydro	1485	1502	1359	1593	1144	954
Nuclear	..	..	..	..	..	..
Other	32	40	58	*35	142	46
Own use in electricity, CHP and heat plants	2	1	1	4	11	0
Net production	1528	1575	1478	1690	1296	1052
Imports	2886	2678	3085	2939	3449	3417
Exports	84	88	99	100	114	119
Losses	546	340	504	445	434	270
Consumption	3747	3782	3909	4057	4171	4040
Energy industries own use	..	..	..	..	..	..
By industry and construction	716	613	585	603	586	537
By transport	..	..	..	..	..	..
By households and other cons.	3031	3169	3324	3454	3585	3503
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	504	513	529	565	582	600
Combustible fuels	155	155	143	143	143	113
Hydro	332	337	350	347	347	347
Nuclear	..	..	..	..	..	..
Other	17	21	36	75	93	140
Main activity	504	513	529	565	582	600
Combustible fuels	155	155	143	143	143	113
Hydro	332	337	350	347	347	347
Nuclear	..	..	..	..	..	..
Other	17	21	36	75	93	140
Combustible fuel input	Terajoules					
Hard Coal	0	91	772	953	295	634
Gas-diesel oil	172	387	129	0	..	104
Total input	172	478	901	953	295	737
Total production	47	122	223	238	76	186
Estimated efficiency (% of production to input)	27	26	25	25	26	25

Statistics on electricity

Nauru

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*25	31	32	35	36	37
Combustible fuels	*25	31	31	34	35	36
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	0	1	1	1
Main activity	*25	31	32	35	36	37
Combustible fuels	*25	31	31	34	35	36
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	0	1	1	1
Own use in electricity, CHP and heat plants	0	0	0	0	0	1
Net production	*25	31	31	34	36	36
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*8	12	10	9	8	4
Consumption	*17	19	21	26	28	32
Energy industries own use	..	..	..	..	..	..
By industry and construction	*1	1	1	1	1	2
By transport	..	..	..	..	..	..
By households and other cons.	*16	18	20	25	27	30
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*6	*6	*7	*8	*14	*14
Combustible fuels	*6	*6	*6	*7	*13	*13
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	1	1	1	1
Main activity	*6	*6	*7	*8	*14	*14
Combustible fuels	*6	*6	*6	*7	*13	*13
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	1	1	1	1
Combustible fuel input	Terajoules					
Gas-diesel oil	*305	334	343	360	344	343
Total input	*305	334	343	360	344	343
Total production	*90	112	113	121	126	130
Estimated efficiency (% of production to input)	29	34	33	34	37	38

Statistics on electricity
Nepal

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	3508	3460	4244	4639	4902	6181
Combustible fuels	10	..	..	0	0	0
Hydro	3498	3453	4237	4632	4895	6173
Nuclear	..	..	..	..	..	..
Other	..	7	7	7	6	7
Main activity	3368	3306	4089	4483	4745	6019
Combustible fuels	10	..	..	0	0	0
Hydro	3358	3299	4082	4476	4738	6012
Nuclear	..	..	..	..	..	..
Other	..	7	7	7	6	7
Own use in electricity, CHP and heat plants	15	49	48	55	56	30
Net production	3493	3411	4196	4584	4846	6151
Imports	1319	1778	2175	2582	2813	1729
Exports	3	3	3	3	35	107
Losses	*1200	1309	1433	1443	1114	1183
Consumption	3491	3867	4926	5710	6500	6579
Energy industries own use	..	..	..	..	..	..
By industry and construction	1252	1206	1719	2010	2438	2286
By transport	6	6	6	5	5	3
By households and other cons.	2233	2655	3201	3695	4057	4290
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*829	798	979	*1142	1190	1198
Combustible fuels	53	53	53	53	53	53
Hydro	*776	738	919	*1081	1129	1129
Nuclear	..	..	..	..	..	..
Other	..	*7	*7	*7	*7	*15
Main activity	*654	701	879	*1041	1065	1074
Combustible fuels	53	53	53	53	53	53
Hydro	*601	641	819	*981	1005	1005
Nuclear	..	..	..	..	..	..
Other	..	*7	*7	*7	*7	*15
Combustible fuel input	Terajoules					
Fuel oil	*89	0	0	1	1	1
Total input	*89	0	0	1	1	1
Total production	35	..	..	0	0	0
Estimated efficiency (% of production to input)	39	..	..	40	40	38

Statistics on electricity
Netherlands

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	103359	110232	115168	117219	114103	121062
Combustible fuels	92488	95922	99952	99368	95659	99620
Hydro	112	93	100	61	72	74
Nuclear	4091	4078	3960	3402	3515	3910
Other	6668	10139	11156	14388	14857	17458
Main activity	81447	87279	92099	91977	87410	92340
Combustible fuels	72440	75543	79596	77467	73575	77021
Hydro	112	93	100	61	72	74
Nuclear	4091	4078	3960	3402	3515	3910
Other	4804	7565	8443	11046	10248	11335
Own use in electricity, CHP and heat plants	4645	4483	4179	3794	3411	3490
Net production	98714	105749	110989	113425	110692	117572
Imports	32855	30760	24258	22458	26755	20403
Exports	18128	22012	19343	18952	18785	19548
Losses	4934	5264	5434	5414	5334	5059
Consumption	107291	109823	111173	112221	114394	115153
Energy industries own use	5592	5672	5814	5581	5708	5599
By industry and construction	33295	34367	35678	35856	35912	35713
By transport	1716	1729	1969	1997	2121	2364
By households and other cons.	66688	68055	67712	68787	70653	71477
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	31722	33878	34262	33822	35110	37086
Combustible fuels	27286	28356	27266	26105	25505	24821
Hydro	37	37	37	37	37	37
Nuclear	485	485	485	485	485	485
Other	3914	5000	6474	7195	9083	11743
Main activity	24951	26805	26719	25557	24966	24772
Combustible fuels	22092	23355	22346	21186	20061	19416
Hydro	37	37	37	37	37	37
Nuclear	485	485	485	485	485	485
Other	2337	2928	3851	3849	4383	4834
Combustible fuel input	Terajoules					
Hard Coal	257247	336307	306318	267976	231463	155720
Biogas	6169	6656	6245	5776	5395	5384
Gas-diesel oil	2924	817	559	488	482	769
Refinery gas	20345	13662	13613	11632	15019	17385
Natural gas	423496	370867	415368	446211	433194	511005
Coke-oven gas	1965	1850	1495	1993	1848	1904
Blast furnace gas	24677	24109	22715	23423	22206	21179
Fuelwood	*16311	*19448	*16302	*15390	*11523	24472
Vegetal waste	*5344	*1245	*5245	*6229	*9622	*9641
Municipal waste	70843	70793	75189	73443	70913	69139
Others	3096	..	..	..	..	..
Total input	832416	845754	863049	852561	801666	816597
Total production	332957	345319	359827	357724	344371	358632
Estimated efficiency (% of production to input)	40	41	42	42	43	44

Statistics on electricity
New Caledonia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	3011	2903	3130	3228	3486	3333
Combustible fuels	2660	2494	2842	2794	3077	2876
Hydro	289	340	232	361	317	285
Nuclear	..	..	..	..	..	..
Other	62	68	57	73	92	173
Main activity	3011	2903	3130	3228	3486	3333
Combustible fuels	2660	2494	2842	2794	3077	2876
Hydro	289	340	232	361	317	285
Nuclear	..	..	..	..	..	..
Other	62	68	57	73	92	173
Own use in electricity, CHP and heat plants	0	0	0	1	1	4
Net production	3011	2903	3130	3228	3485	3329
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	58	61	90	68	65	57
Consumption	2953	2842	3040	3161	3513	3369
Energy industries own use	..	..	..	..	..	..
By industry and construction	2324	2193	2354	2488	2739	2604
By transport	..	..	..	..	..	..
By households and other cons.	630	650	686	672	774	765
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	683	998	1001	*1020	*1040	*1066
Combustible fuels	565	875	875	*875	*875	*875
Hydro	78	78	78	78	78	78
Nuclear	..	..	..	..	..	..
Other	40	44	48	67	87	*113
Main activity	622	937	940	*957	*972	*991
Combustible fuels	505	815	815	*815	*815	*815
Hydro	78	78	78	78	78	78
Nuclear	..	..	..	..	..	..
Other	40	44	46	64	79	98
Combustible fuel input	Terajoules					
Hard Coal	10405	12389	17157	19141	16989	18820
Gas-diesel oil	6717	3500	2700	2223	3677	1790
Fuel oil	15320	15792	16677	14512	15756	14447
Other kerosene	293	237	311	210	403	31
Bitumen	145	133	133	113	121	129
Other liquid biofuels	*5	*5	*7	*5	*5	*5
Total input	32885	32056	36986	36204	36951	35223
Total production	9576	8979	10230	10059	11077	10352
Estimated efficiency (% of production to input)	29	28	28	28	30	29

Statistics on electricity

New Zealand

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	43679	44378	43824	44323	44412	44811
Combustible fuels	9657	9389	7466	8901	7926	8765
Hydro	24316	24528	25920	25177	26290	25575
Nuclear	..	..	..	..	..	..
Other	9706	10461	10438	10245	10197	10472
Main activity	42270	42931	42416	42866	43001	43254
Combustible fuels	8392	8106	6245	7645	6728	7448
Hydro	24312	24524	25916	25173	26286	25571
Nuclear	..	..	..	..	..	..
Other	9566	10301	10255	10048	9986	10236
Own use in electricity, CHP and heat plants	1319	1339	1223	1311	1255	1309
Net production	42360	43039	42601	43012	43157	43503
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	2851	2897	2955	2944	2942	2951
Consumption	40013	40454	39914	39634	39703	39953
Energy industries own use	613	700	731	751	695	724
By industry and construction	13806	13910	13816	13865	13927	14110
By transport	69	84	91	91	94	110
By households and other cons.	25525	25760	25276	24927	24988	25009
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	9788	9448	9290	9311	9358	9391
Combustible fuels	2763	2384	2210	2213	2216	2216
Hydro	5381	5381	5381	5381	5381	5389
Nuclear	..	..	..	..	..	..
Other	1644	1683	1699	1717	1761	1786
Main activity	9518	9163	8989	8988	9015	9023
Combustible fuels	2542	2163	1989	1988	1991	1991
Hydro	5378	5378	5378	5378	5378	5386
Nuclear	..	..	..	..	..	..
Other	1598	1622	1622	1622	1646	1646
Combustible fuel input	Terajoules					
Brown Coal	13900	11331	4620	5591	9126	16627
Biogas	2625	2827	3004	3021	2983	2982
Gas-diesel oil	43	0	43	59	118	39
Natural gas	58540	56477	49137	59596	49204	49591
Coke-oven gas	2007	2119	1854	1966	1941	2626
Blast furnace gas	5482	5617	5377	5665	5314	5492
Fuelwood	*3938	*3805	*3639	*3252	*3399	*3313
Total input	86535	82176	67674	79151	72085	80670
Total production	34765	33800	26878	32042	28532	31555
Estimated efficiency (% of production to input)	40	41	40	40	40	39

Statistics on electricity
Nicaragua

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	4454	4580	4591	4525	4636	4574
Combustible fuels	2550	2740	2728	2657	2599	2815
Hydro	395	295	426	468	411	227
Nuclear	..	..	..	..	..	..
Other	1509	1545	1437	1400	1626	1533
Main activity	3909	4071	4002	3814	3901	3686
Combustible fuels	2006	2232	2140	1946	1864	1927
Hydro	394	294	425	468	411	227
Nuclear	..	..	..	..	..	..
Other	1509	1545	1437	1400	1626	1533
Own use in electricity, CHP and heat plants	161	364	193	407	403	478
Net production	4293	4216	4398	4118	4233	4096
Imports	22	34	205	327	201	434
Exports	49	22	18	1	0	0
Losses	926	837	964	996	978	1089
Consumption	3325	3396	3665	3451	3594	3713
Energy industries own use	..	..	..	..	..	..
By industry and construction	1105	1128	1174	1147	1069	1092
By transport	..	..	..	..	..	..
By households and other cons.	2220	2268	2491	2304	2525	2621
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1329	1346	1396	1482	1482	1621
Combustible fuels	866	866	912	985	985	1107
Hydro	120	138	142	142	142	158
Nuclear	..	..	..	..	..	..
Other	342	342	342	355	355	356
Main activity	1194	1211	1219	1305	1305	1402
Combustible fuels	733	733	735	809	809	888
Hydro	119	137	142	142	142	157
Nuclear	..	..	..	..	..	..
Other	342	342	342	355	355	356
Combustible fuel input	Terajoules					
Biogas	..	..	..	..	..	75
Gas-diesel oil	645	645	602	602	516	509
Fuel oil	17816	20119	19473	17210	16483	17093
Bagasse	*14495	*13301	*14126	*16153	*15717	*16287
Vegetal waste	0	0	0	0	*348	*272
Total input	32956	34065	34201	33965	33064	34237
Total production	9180	9864	9821	9565	9356	10133
Estimated efficiency (% of production to input)	28	29	29	28	28	30

Statistics on electricity

Niger

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	521	522	442	566	480	*555
Combustible fuels	512	511	428	552	447	*522
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	10	11	13	15	33	33
Main activity	472	496	415	541	437	*511
Combustible fuels	472	496	415	541	437	*511
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	44	44	68	72	38	50
Net production	478	478	374	494	442	*505
Imports	727	782	779	845	1253	1057
Exports	0	0	0	0	0	..
Losses	191	215	*208	*218	*238	313
Consumption	858	916	*968	*1014	*1379	1239
Energy industries own use	..	..	..	..	..	..
By industry and construction	*215	218	*272	*285	*387	219
By transport	..	..	..	..	..	..
By households and other cons.	644	699	*696	*729	*992	1020
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	230	277	288	290	311	*324
Combustible fuels	224	270	280	281	291	*297
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	6	7	8	9	20	27
Main activity	170	216	226	228	238	*244
Combustible fuels	170	216	226	228	238	*244
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Hard Coal	4231	3535	3721	3552	3414	3214
Gas-diesel oil	1883	2253	2279	*2365	*2064	2322
Liquefied petroleum gas	710	596	*449	*520	*572	907
Other oil products	..	..	..	764	764	683
Total input	6824	6384	6449	7202	6814	7126
Total production	1842	1838	1542	1986	1610	*1880
Estimated efficiency (% of production to input)	27	29	24	28	24	26

Statistics on electricity
Nigeria

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	32278	32445	36512	32221	32446	31422
Combustible fuels	26907	26697	28331	24443	25657	24633
Hydro	5346	5721	8151	7747	6758	6745
Nuclear	..	..	..	..	..	..
Other	25	27	30	31	31	44
Main activity	26247	26467	30124	26690	26670	25857
Combustible fuels	21010	20863	22140	19102	20051	19250
Hydro	5237	5604	7984	7588	6620	6607
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	948	931	1047	924	931	901
Net production	31330	31514	35465	31297	31516	30521
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	4838	4866	5476	4833	4867	4713
Consumption	24625	25026	25636	26228	26881	27516
Energy industries own use	186	179	207	236	229	242
By industry and construction	4057	3918	3825	3817	3897	3927
By transport	..	..	..	..	..	..
By households and other cons.	20382	20929	21604	22175	22756	23347
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*10587	*10589	*12535	*12275	*12275	11681
Combustible fuels	*8458	*8458	*10403	*10142	*10142	9539
Hydro	*2110	*2111	*2111	*2111	*2111	*2111
Nuclear	..	..	..	..	..	..
Other	19	20	21	22	22	31
Main activity	*7528	*7529	*9212	*9033	*9033	8430
Combustible fuels	*5458	*5458	*7141	*6962	*6962	6359
Hydro	*2070	*2071	*2071	*2071	*2071	*2071
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Natural gas	268850	266970	283310	244700	268629	254826
Total input	268850	266970	283310	244700	268629	254826
Total production	96865	96109	101992	87996	92366	88679
Estimated efficiency (% of production to input)	36	36	36	36	34	35

Statistics on electricity

Niue

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	3	3	*3	*3	*4	*4
Combustible fuels	3	3	*3	*3	*3	*4
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Main activity	3	3	*3	*3	*4	*4
Combustible fuels	3	3	*3	*3	*3	*4
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	3	3	*3	*3	*4	*4
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	0	0	0	0	0	0
Consumption	3	3	*3	*3	*3	*3
Energy industries own use	..	..	..	..	..	..
By industry and construction	1	1	*1	*1	*1	*1
By transport	..	..	..	..	..	..
By households and other cons.	2	2	*2	*2	*3	*3
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2	*2	*2	*2	*2	*3
Combustible fuels	2	*2	*2	*2	*2	*2
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	1
Main activity	2	*2	*2	*2	*2	*3
Combustible fuels	2	*2	*2	*2	*2	*2
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	1
Combustible fuel input	Terajoules					
Gas-diesel oil	31	34	*34	*33	34	39
Total input	31	34	*34	*33	34	39
Total production	11	12	*12	*12	*12	*13
Estimated efficiency (% of production to input)	36	35	35	36	36	33

Statistics on electricity
North Macedonia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	5374	5646	5630	5600	5607	5870
Combustible fuels	4082	3638	3599	4356	3696	4581
Hydro	1207	1865	1897	1110	1791	1164
Nuclear	..	..	..	..	..	..
Other	85	143	133	134	120	125
Main activity	5373	5646	5630	5600	5607	5870
Combustible fuels	4081	3638	3599	4356	3696	4581
Hydro	1207	1865	1897	1110	1791	1164
Nuclear	..	..	..	..	..	..
Other	85	143	133	134	120	125
Own use in electricity, CHP and heat plants	412	380	358	387	338	381
Net production	4961	5266	5272	5213	5269	5488
Imports	3073	2656	2191	2294	2297	2411
Exports	113	143	160	311	377	583
Losses	1069	1035	1007	1004	995	979
Consumption	6852	6743	6296	6192	6194	6337
Energy industries own use	123	108	103	90	89	96
By industry and construction	2222	1976	1653	1472	1560	1620
By transport	19	17	14	14	12	14
By households and other cons.	4489	4642	4526	4616	4534	4606
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1759	1790	1823	1836	1839	1844
Combustible fuels	1077	1078	1109	1111	1111	1112
Hydro	630	658	660	671	674	678
Nuclear	..	..	..	..	..	..
Other	52	54	54	54	54	54
Main activity	1756	1790	1823	1836	1839	1844
Combustible fuels	1074	1078	1109	1111	1111	1112
Hydro	630	658	660	671	674	678
Nuclear	..	..	..	..	..	..
Other	52	54	54	54	54	54
Combustible fuel input	Terajoules					
Brown Coal	43856	38046	33979	38362	32774	39673
Biogas	..	75	134	191	200	204
Fuel oil	1663	1584	1130	986	548	690
Natural gas	1713	1481	4603	6503	5902	7231
Total input	47232	41185	39846	46041	39425	47798
Total production	14695	13095	12956	15680	13304	16492
Estimated efficiency (% of production to input)	31	32	33	34	34	35

Statistics on electricity

Northern Mariana Islands

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*419	*430	*387	*380	*390	*392
Combustible fuels	*419	*430	*387	*380	*390	*392
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*419	*430	*387	*380	*390	*392
Combustible fuels	*419	*430	*387	*380	*390	*392
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	*419	*430	*387	*380	*390	*392
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*93	*96	*86	*85	*86	*86
Consumption	*326	*334	*301	*295	*304	*306
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*326	*334	*301	*295	*304	*306
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	95	*95	95	*95	*95	*98
Combustible fuels	95	*95	95	*95	*95	*98
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	95	*95	95	*95	*95	*98
Combustible fuels	95	*95	95	*95	*95	*98
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	*5375	*5504	*4945	*4859	*4988	*5031
Total input	*5375	*5504	*4945	*4859	*4988	*5031
Total production	*1508	*1547	*1392	*1368	*1404	*1411
Estimated efficiency (% of production to input)	28	28	28	28	28	28

Statistics on electricity

Norway

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	141970	144546	149042	149480	146891	135292
Combustible fuels	3255	3247	3201	3190	3169	3010
Hydro	136185	138450	143417	143112	139509	126404
Nuclear	..	..	..	..	..	..
Other	2530	2849	2424	3178	4213	5877
Main activity	139070	141616	146136	146635	143968	132571
Combustible fuels	668	651	603	669	584	631
Hydro	136185	138450	143417	143112	139509	126404
Nuclear	..	..	..	..	..	..
Other	2217	2515	2116	2854	3876	5536
Own use in electricity, CHP and heat plants	628	642	563	717	653	626
Net production	141342	143904	148479	148763	146238	134666
Imports	6347	7371	5740	6111	8340	12353
Exports	21932	22016	22151	21276	18489	12309
Losses	7605	7469	9170	9153	9005	8257
Consumption	116673	120255	122117	123023	126143	125459
Energy industries own use	8091	9178	8472	9327	10236	9835
By industry and construction	44446	45012	45756	46010	47004	46555
By transport	654	794	901	993	1223	1446
By households and other cons.	63482	65271	66988	66693	67679	67623
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	33697	33839	33810	34230	35418	36912
Combustible fuels	1563	1563	1073	1074	1073	1074
Hydro	31240	31372	31817	31912	32530	32797
Nuclear	..	..	..	..	..	..
Other	894	904	920	1244	1815	3041
Main activity	33109	33249	33220	33654	34761	36233
Combustible fuels	1010	1010	520	535	521	522
Hydro	31240	31372	31817	31912	32530	32797
Nuclear	..	..	..	..	..	..
Other	859	867	883	1207	1710	2914
Combustible fuel input	Terajoules					
Hard Coal	703	703	731	815	865	853
Biogas	193	181	130	159	130	134
Gas-diesel oil	215	172	258	172	167	101
Liquefied petroleum gas	0	0	0	0	12	12
Refinery gas	3713	4653	4851	5544	4507	3752
Natural gas	15492	15345	15362	14873	15196	13990
Blast furnace gas	938	1088	1006	1255	1247	1251
Fuelwood	77	94	309	1536	1549	1839
Municipal waste	9146	8670	8610	8756	8861	9158
Other liquid biofuels	0	0	0	14	8	7
Total input	30476	30905	31257	33124	32541	31098
Total production	11718	11689	11524	11484	11410	10838
Estimated efficiency (% of production to input)	38	38	37	35	35	35

Statistics on electricity

Oman

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	29129	32762	34232	36130	37718	38337
Combustible fuels	29128	32758	34228	36114	37702	38320
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	4	4	16	16	17
Main activity	29129	32762	34232	36130	37718	38337
Combustible fuels	29128	32758	34228	36114	37702	38320
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	4	4	16	16	17
Own use in electricity, CHP and heat plants	785	676	620	459	497	820
Net production	28344	32086	33612	35670	37221	37517
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	3172	3174	3253	3321	3674	3721
Consumption	25172	28912	30359	32349	33547	33796
Energy industries own use	..	..	..	..	..	..
By industry and construction	4189	4723	5153	5021	5169	5092
By transport	..	..	..	..	..	..
By households and other cons.	20983	24189	25206	27328	28379	28704
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	8214	7868	8165	8228	8450	8501
Combustible fuels	8213	7866	8163	8220	8442	8442
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	2	2	8	8	59
Main activity	8214	7868	8165	8228	8450	8501
Combustible fuels	8213	7866	8163	8220	8442	8442
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	2	2	8	8	59
Combustible fuel input	Terajoules					
Gas-diesel oil	7697	8686	9632	10606	11542	12308
Natural gas	305274	317548	304957	314281	316552	286348
Total input	312971	326234	314589	324887	328094	298657
Total production	104860	117928	123220	130011	135728	137953
Estimated efficiency (% of production to input)	34	36	39	40	41	46

Statistics on electricity
Pakistan

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	108150	110129	115503	123533	134982	136461
Combustible fuels	70485	70557	74698	81447	93546	89621
Hydro	32210	32867	34573	32132	27729	32789
Nuclear	5090	5804	4602	6867	9849	9134
Other	365	901	1630	3087	3858	4917
Main activity	106106	107515	113189	120807	131999	133481
Combustible fuels	68541	68383	73016	79732	91583	87608
Hydro	32210	32867	34573	32132	27729	32789
Nuclear	5090	5804	4602	6867	9849	9134
Other	265	461	998	2076	2838	3950
Own use in electricity, CHP and heat plants	3984	4124	4503	3793	4311	2896
Net production	104166	106005	111000	119740	130671	133565
Imports	..	552	655	433	297	499
Exports	..	..	..	..	..	..
Losses	16931	16941	17823	20615	16765	17389
Consumption	85818	90429	95530	103273	109459	113546
Energy industries own use	..	..	..	..	..	..
By industry and construction	24979	25035	24010	27398	28760	29834
By transport	0	0	0	..	..	..
By households and other cons.	60839	65394	71520	75875	80699	83712
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	24830	24495	26698	31246	34875	37681
Combustible fuels	16856	16217	17874	21518	24325	24386
Hydro	6985	7115	7115	7115	7270	9757
Nuclear	750	750	750	1090	1430	1430
Other	239	413	959	1523	1850	2108
Main activity	24236	23872	26012	30434	34012	36761
Combustible fuels	16395	15751	17407	21037	23834	23896
Hydro	6985	7115	7115	7115	7270	9757
Nuclear	750	750	750	1090	1430	1430
Other	106	256	740	1192	1478	1678
Combustible fuel input	Terajoules					
Hard Coal	3556	5024	20662	115611	122361	153542
Gas-diesel oil	23134	12040	11954	7955	1118	1118
Fuel oil	346010	324776	299021	*249591	*111948	*113039
Natural gas	286708	359108	361882	478796	520576	477108
Bagasse	*22626	*23583	*23560	*23560	*23622	*23622
Total input	682033	724531	717079	875513	779625	768429
Total production	253746	254005	268913	293209	336766	322636
Estimated efficiency (% of production to input)	37	35	38	33	43	42

Statistics on electricity

Palau

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*90	*90	*95	*95	*97	*97
Combustible fuels	*90	*90	*95	*95	*95	*95
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	0	0	2	2
Main activity	*84	*84	*89	*88	*90	*90
Combustible fuels	*84	*84	*89	*88	*88	*88
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	0	0	2	2
Own use in electricity, CHP and heat plants	*5	*5	*5	*5	*5	*5
Net production	*85	*85	*90	*90	*92	*92
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*11	*11	*12	*11	*11	*11
Consumption	*67	*73	*77	*81	*80	*81
Energy industries own use	..	..	..	..	..	..
By industry and construction	*5	*6	*6	*6	*6	*6
By transport	..	..	..	..	..	..
By households and other cons.	*62	*67	*71	*75	*74	*75
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	30	31	40	*40	*40	*41
Combustible fuels	30	30	39	*39	*39	*39
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	1	*1	*1	*2	*2
Main activity	28	29	38	*38	*38	*39
Combustible fuels	28	28	37	*37	*37	*37
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	1	*1	*1	*2	*2
Combustible fuel input	Terajoules					
Gas-diesel oil	*1011	*1011	*1066	*1062	*1054	*1075
Total input	*1011	*1011	*1066	*1062	*1054	*1075
Total production	*323	*323	*341	*342	*340	*340
Estimated efficiency (% of production to input)	32	32	32	32	32	32

Statistics on electricity

Panama

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	9287	10295	10885	11054	11353	11663
Combustible fuels	4136	3604	3666	3141	2657	5527
Hydro	5034	6257	6523	7256	7858	5096
Nuclear	..	..	..	..	..	..
Other	118	435	697	657	838	1040
Main activity	9256	10262	10853	11022	11192	10495
Combustible fuels	4105	3570	3634	3109	2496	4359
Hydro	5034	6257	6523	7256	7858	5096
Nuclear	..	..	..	..	..	..
Other	118	435	697	657	838	1040
Own use in electricity, CHP and heat plants	200	201	207	242	492	197
Net production	9087	10095	10678	10812	10861	11466
Imports	193	17	30	7	13	77
Exports	99	139	398	318	326	427
Losses	1328	1400	1512	1448	1423	1309
Consumption	7832	8549	8761	9095	9296	9786
Energy industries own use	..	..	..	..	..	..
By industry and construction	689	669	647	651	617	605
By transport	19	42	37	41	41	54
By households and other cons.	7124	7837	8077	8403	8638	9127
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2829	3224	3371	3423	4055	4091
Combustible fuels	1148	1202	1235	1225	1811	1819
Hydro	1623	1726	1769	1777	1777	1796
Nuclear	..	..	..	..	..	..
Other	57	296	367	421	467	476
Main activity	2560	2992	3139	3191	3823	3569
Combustible fuels	939	1030	1063	1053	1639	1357
Hydro	1563	1666	1709	1717	1717	1736
Nuclear	..	..	..	..	..	..
Other	57	296	367	421	467	476
Combustible fuel input	Terajoules					
Hard Coal	9082	9133	8075	2252	5642	23137
Gas-diesel oil	9546	2555	1935	2718	881	929
Fuel oil	6828	19386	21312	19682	9750	11126
Natural gas	..	..	..	..	10180	31663
Bagasse	2874	2900	4001	2843	4409	2573
Total input	28329	33974	35324	27495	30862	69428
Total production	14888	12974	13199	11309	9565	19896
Estimated efficiency (% of production to input)	53	38	37	41	31	29

Statistics on electricity
Papua New Guinea

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	4305	4560	4794	4595	4629	*4858
Combustible fuels	2863	3125	3367	3155	3375	*3483
Hydro	1020	1012	1005	1018	830	*928
Nuclear	..	..	..	..	..	..
Other	422	423	422	422	424	*446
Main activity	1069	1153	1274	1291	1376	*1485
Combustible fuels	409	491	622	622	753	*833
Hydro	660	661	650	667	621	*650
Nuclear	..	..	..	..	..	..
Other	0	1	2	2	2	*2
Own use in electricity, CHP and heat plants	129	236	465	259	58	*58
Net production	4176	4324	4329	4336	4571	*4799
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	512	442	337	*338	291	305
Consumption	3664	3882	3991	*3998	*4280	*4494
Energy industries own use	..	..	..	..	..	..
By industry and construction	2652	2838	2931	*2935	*3140	*3297
By transport	..	..	..	..	..	..
By households and other cons.	*1012	*1044	*1061	*1063	*1140	*1197
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*872	*905	*971	*971	*1102	*1152
Combustible fuels	*566	*590	*656	*656	*750	*800
Hydro	250	*258	*258	*258	295	*295
Nuclear	..	..	..	..	..	..
Other	56	57	57	57	57	57
Main activity	267	*296	*363	*369	*501	*551
Combustible fuels	116	*140	*206	*206	*300	*350
Hydro	151	*155	*155	*162	200	*200
Nuclear	..	..	..	..	..	..
Other	0	1	1	1	1	1
Combustible fuel input	Terajoules					
Gas-diesel oil	3896	4312	3894	4194	6824	*7166
Fuel oil	21856	22273	22693	20179	27047	*28399
Natural gas	6155	6657	8416	8709	6699	*7034
Bagasse	84	84	84	84	84	88
Total input	31991	33326	35087	33166	40654	*42687
Total production	10307	11250	12121	11358	12150	*12540
Estimated efficiency (% of production to input)	32	34	35	34	30	29

Statistics on electricity
Paraguay

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	55282	55744	63771	59685	59212	49448
Combustible fuels	6	1	1	2	2	2
Hydro	55276	55743	63770	59684	59211	49446
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	55282	55744	63771	59685	59212	49448
Combustible fuels	6	1	1	2	2	2
Hydro	55276	55743	63770	59684	59211	49446
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	448	451	523	495	483	390
Net production	54834	55293	63248	59190	58730	49058
Imports	..	..	..	..	..	..
Exports	41400	41127	48415	43635	42205	31748
Losses	3402	3590	3821	4000	4021	4470
Consumption	10030	10576	11012	11555	12504	12840
Energy industries own use	..	..	..	..	..	..
By industry and construction	3801	4010	4105	4452	4695	4714
By transport	..	..	..	..	..	..
By households and other cons.	6229	6567	6907	7103	7808	8126
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	8775	8775	8761	8761	8761	8761
Combustible fuels	15	15	1	1	1	1
Hydro	8760	8760	8760	8760	8760	8760
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	8775	8775	8761	8761	8761	8761
Combustible fuels	15	15	1	1	1	1
Hydro	8760	8760	8760	8760	8760	8760
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	57	18	17	20	21	24
Total input	57	18	17	20	21	24
Total production	21	5	5	5	6	7
Estimated efficiency (% of production to input)	37	28	27	27	27	31

Statistics on electricity

Peru

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	45508	48277	52720	52743	54982	57038
Combustible fuels	22882	23729	26630	22265	21946	23088
Hydro	22171	23722	24785	29075	30737	31462
Nuclear	..	..	..	..	..	..
Other	455	826	1305	1403	2299	2488
Main activity	42844	45719	50465	50344	52367	54464
Combustible fuels	20778	21766	25024	20591	20125	21261
Hydro	21611	23127	24136	28393	29989	30769
Nuclear	..	..	..	..	..	..
Other	455	826	1305	1360	2253	2434
Own use in electricity, CHP and heat plants	800	567	1831	752	743	743
Net production	44708	47710	50889	51991	54239	56296
Imports	0	1	22	17	21	60
Exports	13	55	38	0	..	..
Losses	5018	5324	5484	5543	5969	5969
Consumption	39719	42334	45390	46464	48293	49831
Energy industries own use	..	..	..	..	..	..
By industry and construction	21798	23446	26054	26716	27832	28695
By transport	37	48	46	53	60	75
By households and other cons.	17884	18840	19290	19695	20401	21061
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	11203	12089	14517	14775	15214	15162
Combustible fuels	7302	7619	8988	9005	9154	9062
Hydro	3662	4130	5189	5246	5363	5397
Nuclear	..	..	..	..	..	..
Other	239	340	340	524	697	703
Main activity	9739	10511	13044	13239	13651	13650
Combustible fuels	5942	6145	7632	7639	7762	7723
Hydro	3558	4026	5072	5116	5232	5266
Nuclear	..	..	..	..	..	..
Other	239	340	340	484	657	661
Combustible fuel input	Terajoules					
Hard Coal	8095	6694	12095	9026	4735	5662
Biogas	821	985	1372	391	484	576
Gas-diesel oil	5500	8983	11425	15751	7825	6861
Fuel oil	6226	6339	7135	6327	5821	5824
Refinery gas	1485	1485	0	..	..	..
Natural gas	175586	182405	199607	165558	168231	177697
Bagasse	21452	14363	11792	17599	13390	14490
Biodiesel	236	383	489	677	391	343
Total input	219400	221636	243915	215328	200877	211453
Total production	82375	85424	95868	80154	79006	83119
Estimated efficiency (% of production to input)	38	39	39	37	39	39

Statistics on electricity
Philippines

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	77476	82905	91789	95747	101223	107517
Combustible fuels	57845	62292	70519	73554	78985	86496
Hydro	9154	8682	8128	9628	9401	8043
Nuclear	..	..	..	..	..	..
Other	10477	11931	13143	12565	12837	12979
Main activity	77261	82413	90798	94371	99765	106042
Combustible fuels	57647	61818	69544	72195	77544	85038
Hydro	9137	8665	8111	9611	9384	8026
Nuclear	..	..	..	..	..	..
Other	10477	11931	13143	12565	12837	12979
Own use in electricity, CHP and heat plants	6827	7582	9314	9655	9589	10333
Net production	70649	75323	82475	86092	91634	97184
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	7270	7481	8286	8262	9007	9994
Consumption	63345	67808	74154	77793	82617	87118
Energy industries own use	..	..	..	..	..	..
By industry and construction	21429	22514	24119	25573	27587	28194
By transport	111	98	103	112	105	106
By households and other cons.	41805	45196	49933	52108	54925	58818
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	18063	18989	21869	23341	24464	26187
Combustible fuels	12280	12864	15127	16470	17480	19135
Hydro	3559	3616	3634	3643	3717	3776
Nuclear	..	..	..	..	..	..
Other	2224	2509	3108	3228	3267	3276
Main activity	17944	18765	21425	22728	23815	25531
Combustible fuels	12177	12656	14699	15873	16847	18495
Hydro	3543	3600	3618	3627	3701	3760
Nuclear	..	..	..	..	..	..
Other	2224	2509	3108	3228	3267	3276
Combustible fuel input	Terajoules					
Brown Coal	344453	387713	425312	514939	575508	632054
Gas-diesel oil	14732	12711	21251	17402	16473	17931
Fuel oil	44137	47559	31666	24284	15013	16148
Natural gas	135141	127938	146239	146138	157703	161726
Bagasse	1817	4590	9867	13825	15094	14144
Municipal waste	1640	955	447	527	543	634
Biodiesel	269	233	372	307	321	347
Total input	542188	581699	635153	717423	780654	842984
Total production	208242	224251	253867	264794	284345	311384
Estimated efficiency (% of production to input)	38	39	40	37	36	37

Statistics on electricity

Poland

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	159059	164944	166635	170465	170039	163989
Combustible fuels	148500	151478	151234	152295	154428	145269
Hydro	2734	2435	2622	3034	2387	2665
Nuclear	..	..	..	..	..	..
Other	7825	11031	12779	15136	13224	16055
Main activity	150178	155562	156178	158554	155193	146774
Combustible fuels	139771	142272	140971	140614	140010	129006
Hydro	2731	2432	2619	3030	2384	2662
Nuclear	..	..	..	..	..	..
Other	7676	10858	12588	14909	12799	15107
Own use in electricity, CHP and heat plants	13845	14249	14632	15596	14780	12626
Net production	145214	150695	152003	154869	155260	151363
Imports	13508	14459	14017	13271	13816	17868
Exports	11342	14793	12018	10984	8121	7245
Losses	10250	10534	9495	9996	8894	8951
Consumption	137129	139827	144507	147160	152060	153035
Energy industries own use	11783	12008	11668	11372	11591	12623
By industry and construction	47585	49482	51210	54543	56424	56675
By transport	3007	3107	3287	3326	3469	3413
By households and other cons.	74754	75230	78342	77919	80575	80323
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	35989	37327	38105	42850	43046	43440
Combustible fuels	29760	29961	29783	34412	34314	33638
Hydro	2364	2370	2386	2390	2391	2397
Nuclear	..	..	..	..	..	..
Other	3865	4996	5936	6048	6340	7405
Main activity	34141	35189	36027	40077	39377	38760
Combustible fuels	27942	27934	27895	31929	31220	30526
Hydro	2363	2369	2385	2390	2391	2397
Nuclear	..	..	..	..	..	..
Other	3836	4886	5747	5758	5766	5838
Combustible fuel input	Terajoules					
Hard Coal	900363	912442	938903	953273	944114	875581
Brown Coal	514876	508760	485377	503717	483381	395678
Biogas	5718	6298	7231	8216	8582	8623
Fuel oil	11352	15837	16443	14890	12711	12489
Natural gas	47736	57442	68953	83638	102753	117539
Coke-oven gas	19325	22755	24895	22961	23502	22651
Blast furnace gas	13937	16242	14630	15884	16215	13887
Fuelwood	*53156	*50048	*45096	*37123	*40861	*45308
Vegetal waste	*42121	*44115	*26528	*16529	*14163	*21870
Municipal waste	237	727	3959	6497	8918	11039
Others	7194	6620	5793	3904	5168	4612
Total input	1616016	1641286	1637808	1666631	1660368	1529276
Total production	534600	545321	544442	548263	555940	522968
Estimated efficiency (% of production to input)	33	33	33	33	33	34

Statistics on electricity

Portugal

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	52802	52420	60328	59432	59636	53154
Combustible fuels	23440	30005	29903	38344	32155	27687
Hydro	16412	9799	16909	7632	13628	10243
Nuclear	..	..	..	..	..	..
Other	12950	12616	13516	13456	13853	15225
Main activity	44367	44126	52123	50996	51312	44477
Combustible fuels	15323	22076	22104	30392	24341	19689
Hydro	16389	9784	16889	7621	13610	10225
Nuclear	..	..	..	..	..	..
Other	12655	12266	13130	12983	13362	14563
Own use in electricity, CHP and heat plants	1275	1480	1466	1763	1439	969
Net production	51527	50940	58862	57669	58197	52185
Imports	7247	8077	4616	5506	5668	8099
Exports	6344	5811	9701	8190	8325	4700
Losses	5209	4894	4901	5101	5060	4948
Consumption	47220	48309	48880	49884	50480	50637
Energy industries own use	2025	2497	2485	3243	2521	2758
By industry and construction	15395	15481	15645	16143	16397	16696
By transport	302	308	431	485	491	494
By households and other cons.	29498	30023	30319	30013	31071	30690
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	19124	19624	20613	20933	21186	21575
Combustible fuels	8113	8048	7990	7975	8080	8160
Hydro	5715	6168	6960	7226	7236	7262
Nuclear	..	..	..	..	..	..
Other	5296	5408	5663	5733	5869	6153
Main activity	17020	17575	18570	18849	18950	19166
Combustible fuels	6205	6205	6209	6205	6208	6281
Hydro	5709	6162	6954	7220	7230	7256
Nuclear	..	..	..	..	..	..
Other	5106	5208	5407	5424	5511	5629
Combustible fuel input	Terajoules					
Hard Coal	111645	135911	118603	135512	112417	52058
Biogas	3078	3121	2996	3224	3127	3068
Gas-diesel oil	903	989	774	790	740	697
Fuel oil	9494	9656	9938	9362	8647	9279
Refinery gas	941	644	396	469	525	628
Natural gas	72602	97300	110638	155584	133961	146170
Fuelwood	12198	11382	15464	12423	10686	15008
Vegetal waste	5824	6961	2483	5060	7397	6295
Municipal waste	6845	8155	8680	8738	8120	8666
Black liquor	6552	7031	7751	9033	9138	8413
Others	128	153	617	580	472	540
Total input	230209	281301	278340	340775	295231	250825
Total production	84384	108018	107651	138039	115758	99674
Estimated efficiency (% of production to input)	37	38	39	41	39	40

Statistics on electricity
Puerto Rico

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	21067	20911	20644	16371	17453	18886
Combustible fuels	20719	20522	20262	16013	17226	18444
Hydro	81	56	71	51	38	41
Nuclear	..	..	..	..	..	..
Other	267	333	311	308	189	401
Main activity	20817	20661	20394	16161	17233	18656
Combustible fuels	20469	20272	20012	15803	17006	18214
Hydro	81	56	71	51	38	41
Nuclear	..	..	..	..	..	..
Other	267	333	311	308	189	401
Own use in electricity, CHP and heat plants	795	829	764	674	664	670
Net production	20272	20082	19880	15698	16789	18217
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*1264	*1255	*1239	*982	*524	*1133
Consumption	17348	17235	17311	13559	16375	16077
Energy industries own use	..	..	..	..	..	..
By industry and construction	2376	2355	2250	1741	2128	2048
By transport	..	..	..	..	..	..
By households and other cons.	14972	14880	15061	11817	14246	14029
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*6097	*6112	6257	*6264	5830	6173
Combustible fuels	*5800	*5800	5900	*5900	5466	5808
Hydro	99	99	99	99	99	99
Nuclear	..	..	..	..	..	..
Other	198	213	258	266	266	267
Main activity	*6036	*6051	6196	*6203	5770	6113
Combustible fuels	*5739	*5739	5839	*5839	5406	5748
Hydro	99	99	99	99	99	99
Nuclear	..	..	..	..	..	..
Other	198	213	258	266	266	267
Combustible fuel input	Terajoules					
Hard Coal	39195	37689	37240	26195	29113	40540
Biogas	..	*4	*89	*139	*136	*195
Fuel oil	106688	115952	102071	90116	*92920	73249
Natural gas	64837	61149	67732	51276	66555	75889
Total input	210720	214793	207131	167725	188724	189873
Total production	74588	73879	72942	57646	62013	66399
Estimated efficiency (% of production to input)	35	34	35	34	33	35

Statistics on electricity

Qatar

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	38692	41499	42307	45555	47913	49873
Combustible fuels	38692	41499	42307	45555	47913	49873
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	3502	2501	2550	2742	1533	1930
Combustible fuels	3502	2501	2550	2742	1533	1930
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	2568	2647	2642	2831	3259	3440
Net production	36124	38852	39665	42724	44654	46432
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	2341	2475	2532	2695	2786	2772
Consumption	33784	36378	37134	40030	*41868	*43660
Energy industries own use	..	..	..	..	..	..
By industry and construction	11568	11887	12026	11262	12197	12124
By transport	..	..	..	..	..	..
By households and other cons.	22216	24491	25108	28768	*29671	*31536
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*8791	*8561	*8559	*10170	*10590	*10590
Combustible fuels	*8791	*8561	*8559	*10170	*10590	*10590
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*1319	*1284	*1284	*1526	*1553	*1553
Combustible fuels	*1319	*1284	*1284	*1526	*1553	*1553
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Natural gas	381028	399818	407605	438866	452056	472908
Total input	381028	399818	407605	438866	452056	472908
Total production	139291	149396	152305	163998	172487	179542
Estimated efficiency (% of production to input)	37	37	37	37	38	38

Statistics on electricity
Republic of Moldova

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	963	939	906	896	952	939
Combustible fuels	902	885	862	839	884	830
Hydro	59	50	39	48	44	65
Nuclear	..	..	..	..	..	..
Other	2	4	5	9	24	44
Main activity	893	899	864	841	882	862
Combustible fuels	832	845	820	786	827	777
Hydro	59	50	39	48	44	65
Nuclear	..	..	..	..	..	..
Other	2	4	5	7	11	20
Own use in electricity, CHP and heat plants	126	134	136	135	130	155
Net production	837	805	770	761	822	784
Imports	3342	3315	3325	3412	3500	3501
Exports	..	..	..	..	..	..
Losses	481	393	428	429	441	425
Consumption	3698	3727	3667	3744	3881	3860
Energy industries own use	49	41	45	40	40	47
By industry and construction	906	773	751	764	771	740
By transport	47	49	62	82	72	45
By households and other cons.	2696	2864	2809	2858	2998	3028
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	483	491	463	477	478	486
Combustible fuels	465	473	443	450	425	430
Hydro	16	16	16	16	16	16
Nuclear	..	..	..	..	..	..
Other	2	2	4	11	37	40
Main activity	348	348	350	353	358	363
Combustible fuels	330	330	330	330	330	330
Hydro	16	16	16	16	16	16
Nuclear	..	..	..	..	..	..
Other	2	2	4	7	12	17
Combustible fuel input	Terajoules					
Hard Coal	0	0	0	0	0	..
Biogas	178	401	361	282	313	292
Gas-diesel oil	0	0	0	0	0	..
Fuel oil	485	283	485	404	283	81
Other oil products	0	0	40	0	0	..
Natural gas	12931	11874	11660	11511	12292	10935
Fuelwood	0	0	0	0	0	..
Vegetal waste	0	0	0	0	0	0
Industrial waste	0	0	0	0	0	0
Total input	13594	12558	12546	12197	12888	11308
Total production	3247	3186	3103	3020	3182	2988
Estimated efficiency (% of production to input)	24	25	25	25	25	26

Statistics on electricity

Romania

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	65676	66296	65103	64296	64876	59623
Combustible fuels	26903	28604	26871	28672	27308	23787
Hydro	19280	17007	18536	14853	18097	16006
Nuclear	11676	11640	11286	11509	11377	11280
Other	7817	9045	8410	9262	8093	8550
Main activity	59581	58889	57978	57283	57482	53218
Combustible fuels	21866	22215	20561	22374	20509	18072
Hydro	18953	16603	18213	14609	17859	15736
Nuclear	11676	11640	11286	11509	11377	11280
Other	7086	8431	7918	8791	7736	8130
Own use in electricity, CHP and heat plants	4977	5019	4847	4941	4701	4446
Net production	60699	61277	60256	59355	60176	55177
Imports	2811	4492	4177	4842	3697	5493
Exports	9937	11220	9194	7735	6241	3975
Losses	7097	7161	7125	6994	7056	6501
Consumption	46424	47284	47802	49327	50341	50172
Energy industries own use	4519	4254	4545	4628	4774	4598
By industry and construction	19855	20525	20817	21724	22225	21949
By transport	1062	1082	1048	1089	1056	1060
By households and other cons.	20988	21423	21392	21886	22285	22564
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	23884	23830	23580	23572	23553	20908
Combustible fuels	11323	11233	11038	11067	11023	8366
Hydro	6613	6730	6734	6691	6701	6686
Nuclear	1411	1411	1411	1411	1411	1411
Other	4537	4456	4397	4403	4418	4445
Main activity	20441	20497	20416	20550	20568	18638
Combustible fuels	8981	8895	8887	8908	8873	6670
Hydro	6523	6619	6644	6610	6618	6603
Nuclear	1411	1411	1411	1411	1411	1411
Other	3526	3572	3474	3621	3666	3954
Combustible fuel input	Terajoules					
Brown Coal	207524	216668	190559	194597	182821	177525
Biogas	597	594	472	469	466	372
Motor gasoline	..	..	..	0	0	1
Gas-diesel oil	215	129	129	39	34	75
Fuel oil	889	1252	1656	512	991	334
Refinery gas	2525	1881	5198	4258	4195	6969
Petroleum coke	..	..	3250	3621	3495	2212
Natural gas	95207	109341	114034	121683	121155	101530
Blast furnace gas	690	1265	1336	1023	1425	1525
Fuelwood	5005	5383	6034	*6471	*6223	*6392
Others	4545	4143	2	0	0	0
Total input	317196	340656	322670	332674	320804	296934
Total production	96851	102974	96736	103218	98311	85631
Estimated efficiency (% of production to input)	31	30	30	31	31	29

Statistics on electricity
Russian Federation

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1064207	1067544	1090973	1094289	1115093	1121492
Combustible fuels	705598	701220	706663	702882	716119	713955
Hydro	177141	169914	186640	187131	193027	196510
Nuclear	180757	195470	196614	203143	204569	208984
Other	711	940	1056	1133	1378	2043
Main activity	997475	995548	1016191	1021908	1039647	1044968
Combustible fuels	640412	630719	633211	631728	641826	638607
Hydro	175595	168419	185310	185904	191873	195334
Nuclear	180757	195470	196614	203143	204569	208984
Other	711	940	1056	1133	1378	2043
Own use in electricity, CHP and heat plants	69547	69574	67738	70589	70556	70240
Net production	994660	997970	1023235	1023700	1044537	1051252
Imports	6623	6586	3194	6410	5177	1618
Exports	14671	18244	17694	17006	17779	20049
Losses	106567	106553	107247	105261	103119	99077
Consumption	880045	879759	898111	904191	924909	930536
Energy industries own use	142215	147419	154141	143306	165327	174900
By industry and construction	333701	329000	326343	338785	340296	340553
By transport	90256	82120	82569	77587	82010	81628
By households and other cons.	313873	321219	335059	344513	337277	333455
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	255952	257075	264730	267639	271600	*275820
Combustible fuels	179397	179148	185815	187701	190215	*191946
Hydro	50845	50998	51016	51241	51333	*51800
Nuclear	25304	26304	27189	27952	29140	30300
Other	406	625	710	746	913	*1774
Main activity	230592	232223	240259	242389	245977	*250198
Combustible fuels	154524	154773	161794	162912	165054	*166786
Hydro	50358	50521	50566	50779	50871	*51338
Nuclear	25304	26304	27189	27952	29140	30300
Other	406	625	710	746	913	*1774
Combustible fuel input	Terajoules					
Hard Coal	1319217	1468222	1443157	1428813	1614200	1626872
Brown Coal	857293	969909	916234	925259	924413	895957
Peat	11041	5790	7264	5112	5516	6826
Gas-diesel oil	58480	62823	50224	57375	54739	53879
Fuel oil	90658	96798	83386	57422	61414	50392
Other oil products	..	..	..	..	..	24894
Natural gas	7890479	7522764	7260211	7154601	7880830	7539178
Coke-oven gas	69246	69503	68586	64978	63008	61762
Blast furnace gas	52344	56294	52739	63194	56448	60593
Industrial waste	82455	85289	90771	90703	97637	97637
Others	3231	3295	3986	3474	*6158	9048
Total input	10434444	10340686	9976558	9850931	10764363	10427040
Total production	2540153	2524392	2543987	2530374	2578027	2570238
Estimated efficiency (% of production to input)	24	24	25	26	24	25

Statistics on electricity
Rwanda

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	478	576	633	700	759	798
Combustible fuels	268	290	341	349	403	393
Hydro	205	272	277	334	338	387
Nuclear	..	..	..	..	..	..
Other	5	14	15	17	18	18
Main activity	476	574	631	698	757	796
Combustible fuels	266	288	339	347	401	391
Hydro	205	272	277	334	338	387
Nuclear	..	..	..	..	..	..
Other	5	14	15	17	18	18
Own use in electricity, CHP and heat plants	40	13	2	25	2	*3
Net production	438	563	631	675	757	795
Imports	90	76	79	82	96	99
Exports	4	3	4	4	5	6
Losses	*86	121	145	156	166	167
Consumption	438	515	*561	597	682	*722
Energy industries own use	..	..	..	..	..	..
By industry and construction	83	96	*150	161	196	200
By transport	..	..	..	..	..	..
By households and other cons.	355	419	*411	435	486	*522
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	142	172	193	209	226	228
Combustible fuels	52	82	99	111	121	122
Hydro	80	80	84	86	92	95
Nuclear	..	..	..	..	..	..
Other	9	9	9	12	12	12
Main activity	141	171	192	208	225	227
Combustible fuels	51	81	98	110	120	121
Hydro	80	80	84	86	92	95
Nuclear	..	..	..	..	..	..
Other	9	9	9	12	12	12
Combustible fuel input	Terajoules					
Peat	..	*7	*70	*75	*153	*213
Gas-diesel oil	*2580	*2081	*2064	*2967	*3010	*3139
Natural gas	*161	*990	*1700	*1700	*1900	*1870
Bagasse	*36	*36	*36	*36	*36	*36
Total input	*2777	*3114	*3870	*4778	*5099	*5259
Total production	966	1045	1229	1257	1451	1416
Estimated efficiency (% of production to input)	35	34	32	26	28	27

Statistics on electricity

Samoa

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	127	134	149	154	154	169
Combustible fuels	98	93	101	108	90	96
Hydro	28	33	33	26	43	50
Nuclear	..	..	..	..	..	..
Other	1	8	16	20	21	24
Main activity	127	134	149	154	154	169
Combustible fuels	98	93	101	108	90	96
Hydro	28	33	33	26	43	50
Nuclear	..	..	..	..	..	..
Other	1	8	16	20	21	24
Own use in electricity, CHP and heat plants	4	4	4	0	1	0
Net production	123	130	145	154	153	169
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	14	15	15	15	15	17
Consumption	109	115	130	138	138	152
Energy industries own use	..	..	..	..	..	..
By industry and construction	6	8	5	11	10	10
By transport	..	..	..	..	..	..
By households and other cons.	103	107	125	128	129	142
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	42	*44	*52	53	*54	*56
Combustible fuels	23	*23	*23	*23	*23	*23
Hydro	12	11	*11	13	13	14
Nuclear	..	..	..	..	..	..
Other	7	11	18	18	*19	*19
Main activity	42	*44	*52	53	*54	*56
Combustible fuels	23	*23	*23	*23	*23	*23
Hydro	12	11	*11	13	13	14
Nuclear	..	..	..	..	..	..
Other	7	11	18	18	*19	*19
Combustible fuel input	Terajoules					
Gas-diesel oil	891	857	932	*989	*843	*903
Total input	891	857	932	*989	*843	*903
Total production	353	336	363	387	322	344
Estimated efficiency (% of production to input)	40	39	39	39	38	38

Statistics on electricity
Sao Tome and Principe

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*78	*81	86	*91	*91	*91
Combustible fuels	*70	*75	79	*83	*85	*85
Hydro	8	7	*7	*7	6	6
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Main activity	*78	*81	86	*91	*91	*91
Combustible fuels	*70	*75	79	*83	*85	*85
Hydro	8	7	*7	*7	6	6
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Own use in electricity, CHP and heat plants	*5	*6	*6	*7	7	5
Net production	*73	*76	80	*84	*85	*86
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*15	*12	12	*12	*12	*12
Consumption	*58	*64	*69	*72	*73	*74
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*58	*64	*69	*72	*73	*74
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*23	*26	*27	*29	*29	*29
Combustible fuels	*21	*24	*25	*26	*26	*26
Hydro	2	2	2	2	2	2
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Main activity	*23	*26	*27	*29	*29	*29
Combustible fuels	*21	*24	*25	*26	*26	*26
Hydro	2	2	2	2	2	2
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Combustible fuel input	Terajoules					
Gas-diesel oil	*688	*710	*744	*783	*796	*796
Total input	*688	*710	*744	*783	*796	*796
Total production	*251	*268	286	*300	*306	*306
Estimated efficiency (% of production to input)	36	38	38	38	38	38

Statistics on electricity
Saudi Arabia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	311804	338376	345149	355145	343992	343458
Combustible fuels	311803	338330	345103	355075	343773	342623
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	46	46	70	219	835
Main activity	251728	263555	260659	265002	192831	193857
Combustible fuels	251727	263509	260613	264932	192612	193022
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	46	46	70	219	835
Own use in electricity, CHP and heat plants	7568	8015	8055	9420	11594	11889
Net production	304236	330361	337094	345725	332398	331569
Imports	466	461	343	3	2	3
Exports	515	512	1062	38	36	33
Losses	22050	25545	26186	41201	33105	31055
Consumption	279221	285539	284405	278078	279054	276989
Energy industries own use	10981	12327	13459	13731	13402	*12928
By industry and construction	48442	41429	40128	33500	44466	*43581
By transport	..	..	..	..	..	..
By households and other cons.	219798	231783	230818	230847	221186	220480
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	65507	69179	74726	80508	*77028	*76785
Combustible fuels	65506	69155	74702	80471	*76941	*76373
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	24	24	37	87	412
Main activity	55340	58200	62602	65882	*57793	*43185
Combustible fuels	55339	58176	62578	65845	*57706	*42773
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	24	24	37	87	412
Combustible fuel input	Terajoules					
Crude oil	952384	983602	*937537	*1029066	*749091	*830929
Gas-diesel oil	541155	539779	474419	462938	*440879	*132016
Fuel oil	262398	287608	315241	186365	175296	*611346
Natural gas	1801750	2194514	2322614	2435112	2338003	*2360160
Total input	3557688	4005503	4049811	4113481	3703268	*3934451
Total production	1122491	1217988	1242371	1278270	1237583	1233443
Estimated efficiency (% of production to input)	32	30	31	31	33	31

Statistics on electricity

Senegal

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	3575	3818	4097	4418	4502	*4453
Combustible fuels	3542	3779	4044	4270	4333	*4081
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	33	39	53	148	169	*372
Main activity	2909	3105	3239	3449	3368	*3427
Combustible fuels	2909	3105	3239	3449	3368	*3212
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	*214
Own use in electricity, CHP and heat plants	49	54	54	54	55	52
Net production	3526	3764	4043	4364	4447	*4401
Imports	318	333	360	360	360	324
Exports	..	..	..	..	..	..
Losses	599	631	670	672	672	764
Consumption	3245	3466	3734	3472	3998	*3960
Energy industries own use	..	..	..	..	..	..
By industry and construction	836	951	1073	446	1075	1719
By transport	..	..	..	..	..	..
By households and other cons.	2409	2515	2661	3026	2923	*2242
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*875	886	*893	1016	1174	1432
Combustible fuels	*823	834	*840	884	1001	1141
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*52	*52	*53	132	173	*291
Main activity	*489	508	*510	554	671	971
Combustible fuels	*489	508	*510	554	671	811
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	*160
Combustible fuel input	Terajoules					
Hard Coal	..	..	..	4665	6764	8300
Gas-diesel oil	6321	4945	2365	5805	8342	5531
Fuel oil	23715	26179	28684	28159	32118	28826
Natural gas	1466	946	878	736	461	559
Bagasse	*2602	*1828	*2544	*2127	*3062	3253
Total input	34104	33898	34471	41492	50747	46469
Total production	12751	13604	14558	15372	15599	*14692
Estimated efficiency (% of production to input)	37	40	42	37	31	32

Statistics on electricity

Serbia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	34060	38298	39342	37046	37426	37600
Combustible fuels	22437	27504	27784	27232	25870	26490
Hydro	11617	10783	11520	9752	11393	10198
Nuclear	..	..	..	..	..	..
Other	6	11	38	62	163	912
Main activity	33771	37980	38889	36520	36883	37130
Combustible fuels	22148	27186	27331	26706	25327	26020
Hydro	11617	10783	11520	9752	11393	10198
Nuclear	..	..	..	..	..	..
Other	6	11	38	62	163	912
Own use in electricity, CHP and heat plants	2161	2659	2714	2747	2642	3035
Net production	31899	35639	36628	34299	34784	34565
Imports	7008	6303	5068	6549	6400	5417
Exports	5445	7221	6990	5724	6284	5341
Losses	5163	5169	4808	4806	4532	4332
Consumption	28299	29552	29898	30317	30368	30308
Energy industries own use	2074	2363	2296	2193	2319	2314
By industry and construction	7223	7539	8001	8402	8735	8783
By transport	336	351	352	375	375	375
By households and other cons.	18666	19299	19249	19347	18939	18836
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	7326	7358	7410	7416	8066	7896
Combustible fuels	4303	4327	4352	4343	4851	4413
Hydro	3017	3022	3030	3038	2936	3074
Nuclear	..	..	..	..	..	..
Other	6	9	28	35	279	409
Main activity	7249	7281	7281	7296	7948	7744
Combustible fuels	4226	4250	4223	4223	4733	4261
Hydro	3017	3022	3030	3038	2936	3074
Nuclear	..	..	..	..	..	..
Other	6	9	28	35	279	409
Combustible fuel input	Terajoules					
Brown Coal	233364	291520	289300	286828	268847	269480
Lignite briquettes	389	705	726	717	658	607
Biogas	126	140	210	398	631	758
Gas-diesel oil	0	0	0	1	0	0
Fuel oil	323	40	81	58	2990	1252
Other oil products	..	..	..	..	..	40
Natural gas	7087	4997	5331	7478	8113	10164
Blast furnace gas	1841	3071	3929	4249	4760	4637
Fuelwood	78	100	90	81	105	320
Industrial waste	17	15	23	20	22	24
Others	0	0	0	0	0	0
Total input	243225	300589	299689	299831	286125	287283
Total production	80773	99014	100022	98036	93132	95364
Estimated efficiency (% of production to input)	33	33	33	33	33	33

Statistics on electricity
Seychelles

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	445	462	496	513	518	540
Combustible fuels	438	454	487	503	507	527
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	8	8	9	10	11	13
Main activity	363	378	410	424	428	448
Combustible fuels	355	369	401	414	417	435
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	8	8	9	10	11	13
Own use in electricity, CHP and heat plants	*10	*12	*12	*12	12	*24
Net production	435	450	484	501	506	516
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	41	*33	*32	*31	*30	*30
Consumption	395	409	452	470	476	486
Energy industries own use	..	..	..	..	..	..
By industry and construction	*120	*123	*132	*138	*137	*134
By transport	..	..	..	..	..	..
By households and other cons.	275	286	321	332	339	352
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	114	116	*137	155	*155	*157
Combustible fuels	107	110	*129	146	*146	*147
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	7	7	8	10	10	10
Main activity	87	89	*108	126	*126	*127
Combustible fuels	80	82	*100	116	*116	*118
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	7	7	8	10	10	10
Combustible fuel input	Terajoules					
Gas-diesel oil	*916	*920	*942	*972	*980	*1023
Fuel oil	*2868	3341	3600	3697	3758	*3939
Total input	*3784	4261	4541	4668	4738	*4962
Total production	1575	1634	1753	1812	1825	1897
Estimated efficiency (% of production to input)	42	38	39	39	39	38

Statistics on electricity

Sierra Leone

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	181	*260	*303	313	315	260
Combustible fuels	63	*71	*84	*88	*70	*13
Hydro	118	*189	*219	219	239	241
Nuclear	..	..	..	..	..	..
Other	1	1	1	6	*6	*6
Main activity	181	*257	*299	309	311	256
Combustible fuels	63	*67	*80	*84	*66	*9
Hydro	118	*189	*219	219	239	241
Nuclear	..	..	..	..	..	..
Other	1	1	1	6	*6	*6
Own use in electricity, CHP and heat plants	3	*3	*3	10	10	10
Net production	178	*257	*300	303	305	250
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	78	*80	*90	*90	*72	*77
Consumption	86	*177	*210	*210	*232	*173
Energy industries own use	..	..	..	..	..	..
By industry and construction	35	*68	*78	*78	*80	*75
By transport	..	..	..	..	..	..
By households and other cons.	52	*109	*132	*132	*152	*98
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	77	135	139	*142	*137	*143
Combustible fuels	27	78	78	*78	*76	*78
Hydro	50	56	60	*60	*57	*60
Nuclear	..	..	..	..	..	..
Other	0	0	1	4	4	*4
Main activity	77	133	138	*141	*136	*142
Combustible fuels	27	77	77	*77	*75	*77
Hydro	50	56	60	*60	*57	*60
Nuclear	..	..	..	..	..	..
Other	0	0	1	4	4	*4
Combustible fuel input	Terajoules					
Gas-diesel oil	*731	*774	*860	*903	*731	*99
Bagasse	..	*19	*20	*20	*19	*19
Vegetal waste	..	*72	*72	*72	*72	*70
Total input	*731	*865	*952	*995	*822	*188
Total production	225	*256	*301	*316	*252	*46
Estimated efficiency (% of production to input)	31	30	32	32	31	24

Statistics on electricity
Singapore

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	49348	50341	51733	52401	53142	54552
Combustible fuels	49310	50272	51587	52226	52905	54142
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	38	69	146	175	237	410
Main activity	46374	47100	48212	48410	48409	50055
Combustible fuels	46336	47031	48066	48235	48172	49645
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	38	69	146	175	237	410
Own use in electricity, CHP and heat plants	38	70	146	175	234	410
Net production	49310	50271	51587	52225	52908	54142
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	2548	2428	2431	2416	2303	2286
Consumption	46403	47514	48623	49638	50438	51713
Energy industries own use	..	..	..	..	..	..
By industry and construction	19753	20088	20418	21241	21417	21445
By transport	2441	2445	2639	2768	2950	3021
By households and other cons.	24209	24981	25565	25629	26072	27248
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	12919	13059	13445	13612	13614	12563
Combustible fuels	12894	13013	13348	13500	13500	12292
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	26	46	97	112	115	271
Main activity	12571	12641	13027	13043	13046	12011
Combustible fuels	12545	12595	12931	12931	12931	11740
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	26	46	97	112	115	271
Combustible fuel input	Terajoules					
Hard Coal	9474	10178	10853	12464	12347	11598
Gas-diesel oil	86	43	1380	43	24	21
Fuel oil	2586	1939	2424	4537	3543	2270
Refinery gas	8366	7821	3119	2822	2134	1303
Natural gas	337803	341574	350194	352198	355698	364197
Bagasse	1863	2654	2902	2851	3224	3115
Municipal waste	27063	25750	27436	26741	24811	25133
Total input	387240	389959	398307	401656	401780	407638
Total production	177515	180977	185712	188012	190458	194911
Estimated efficiency (% of production to input)	46	46	47	47	47	48

Statistics on electricity
Sint Maarten (Dutch part)

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*358	*360	*362	*300	*291	*296
Combustible fuels	*358	*360	*362	*300	*291	*296
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*358	*360	*362	*300	*291	*296
Combustible fuels	*358	*360	*362	*300	*291	*296
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	*358	*360	*362	*300	*291	*296
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*11	*11	*12	*10	*9	*9
Consumption	326	336	342	*282	*270	*274
Energy industries own use	..	..	..	..	..	..
By industry and construction	53	58	60	*49	*45	*42
By transport	..	..	..	..	..	..
By households and other cons.	272	278	283	*233	*225	*232
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	97	97	97	*88	*92	*96
Combustible fuels	97	97	97	*88	*92	*96
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	97	97	97	*88	*92	*96
Combustible fuels	97	97	97	*88	*92	*96
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Fuel oil	*3192	*3192	*3232	*2707	*2626	*2666
Total input	*3192	*3192	*3232	*2707	*2626	*2666
Total production	*1288	*1296	*1303	*1080	*1049	*1065
Estimated efficiency (% of production to input)	40	41	40	40	40	40

Statistics on electricity
Slovakia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	27401	26903	27064	27738	26971	28434
Combustible fuels	6719	7008	7015	7367	7542	7953
Hydro	4462	4137	4606	4623	3879	4571
Nuclear	15499	15146	14774	15081	14843	15282
Other	721	612	669	667	707	628
Main activity	24361	23835	23980	24646	23456	25345
Combustible fuels	4402	4489	4542	4862	4650	5397
Hydro	4346	4052	4508	4523	3768	4451
Nuclear	15499	15146	14774	15081	14843	15282
Other	114	148	156	180	195	215
Own use in electricity, CHP and heat plants	2394	2145	2067	2046	2108	2068
Net production	25007	24758	24997	25692	24863	26366
Imports	12964	14999	13249	15563	12428	13538
Exports	11862	12611	10598	12535	8746	11838
Losses	667	1363	1332	1263	1235	1699
Consumption	25426	25768	26300	27434	27276	26332
Energy industries own use	1269	1397	1313	1631	1341	1140
By industry and construction	12237	11605	12085	12356	12794	12246
By transport	574	602	607	586	588	530
By households and other cons.	11346	12164	12295	12861	12553	12416
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	8092	7782	7742	7671	7625	7724
Combustible fuels	3068	2754	2710	2645	2651	2639
Hydro	2523	2522	2524	2523	2528	2527
Nuclear	1940	1940	1940	1940	1940	1940
Other	561	566	568	563	506	618
Main activity	6947	6658	6643	6595	6518	6523
Combustible fuels	2411	2119	2106	2012	1882	1873
Hydro	2493	2495	2493	2493	2496	2494
Nuclear	1940	1940	1940	1940	1940	1940
Other	103	104	104	150	200	216
Combustible fuel input	Terajoules					
Hard Coal	15816	14279	14739	17425	18353	11405
Brown Coal	27261	28042	31222	24380	22139	20421
Biogas	3857	4574	4991	5040	4977	4988
Fuel oil	6504	8201	9534	8646	2990	2949
Natural gas	19005	19379	18955	20306	21164	30255
Blast furnace gas	1661	1438	1328	1742	1882	1055
Fuelwood	*6809	*7284	*9237	*8936	*9202	*8122
Vegetal waste	*757	*2872	*802	*797	*977	*904
Municipal waste	775	1090	1236	1217	932	1198
Black liquor	*6297	*5549	*5645	*5831	*5310	*4915
Others	2594	2628	2066	2861	2091	1500
Total input	91336	95336	99755	97181	90017	87712
Total production	24188	25229	25254	26521	27151	28631
Estimated efficiency (% of production to input)	26	26	25	27	30	33

Statistics on electricity
Slovenia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	17437	15100	16500	16326	16327	16100
Combustible fuels	4440	5081	5730	5610	5397	5287
Hydro	6366	4091	4782	4141	4893	4683
Nuclear	6370	5648	5715	6285	5776	5821
Other	261	280	273	290	261	309
Main activity	16688	14412	15746	15595	15603	15331
Combustible fuels	4169	4813	5463	5344	5142	5026
Hydro	6138	3937	4555	3952	4672	4470
Nuclear	6370	5648	5715	6285	5776	5821
Other	11	14	13	14	13	14
Own use in electricity, CHP and heat plants	951	913	954	929	885	875
Net production	16486	14187	15546	15397	15442	15224
Imports	7254	9045	8359	9133	8930	9021
Exports	9997	9093	9535	9648	9432	9340
Losses	821	864	876	893	880	858
Consumption	12922	13275	13493	13988	14060	14047
Energy industries own use	463	487	468	458	348	368
By industry and construction	6057	6199	6234	6446	6499	6492
By transport	136	152	166	233	233	231
By households and other cons.	6266	6437	6625	6851	6980	6957
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	3454	3360	3536	3619	3798	3820
Combustible fuels	1242	1133	1318	1332	1514	1512
Hydro	1296	1295	1293	1347	1344	1351
Nuclear	688	688	688	688	688	688
Other	228	244	237	252	252	269
Main activity	3070	2965	3148	3217	3395	3398
Combustible fuels	1192	1086	1272	1286	1467	1468
Hydro	1180	1179	1177	1231	1228	1230
Nuclear	688	688	688	688	688	688
Other	10	12	11	12	12	12
Combustible fuel input	Terajoules					
Hard Coal	101	135	136	120	128	123
Brown Coal	42032	42634	40630	45723	45515	42919
Biogas	1203	1163	1196	1024	957	875
Gas-diesel oil	344	172	86	112	132	51
Fuel oil	0	0	..	..	..	..
Liquefied petroleum gas	..	..	..	49	63	63
Natural gas	3153	3588	3638	4299	4300	4922
Fuelwood	*1467	*1761	*1744	*1995	*1872	*2153
Industrial waste	321	330	357	375	409	364
Biodiesel	37	37	37	44	58	48
Total input	48658	49819	47824	53742	53434	51518
Total production	15984	18292	20628	20198	19427	19032
Estimated efficiency (% of production to input)	33	37	43	38	36	37

Statistics on electricity

Solomon Islands

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	90	92	100	103	104	107
Combustible fuels	88	90	97	99	100	102
Hydro	0	0	1	1	1	1
Nuclear	..	..	..	..	..	..
Other	1	2	2	3	3	4
Main activity	86	88	96	99	101	104
Combustible fuels	84	86	93	95	97	99
Hydro	0	0	1	1	1	1
Nuclear	..	..	..	..	..	..
Other	1	2	2	3	3	4
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	90	92	100	103	104	107
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*9	*9	*10	*13	*16	*18
Consumption	*82	*83	*90	90	88	88
Energy industries own use	..	..	..	..	..	..
By industry and construction	*35	*33	*35	*37	*39	*41
By transport	..	..	..	..	..	..
By households and other cons.	*47	*50	*54	53	49	48
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*33	*33	*38	*39	*39	*40
Combustible fuels	*32	*32	*36	*36	*36	*36
Hydro	0	0	0	0	0	0
Nuclear	..	..	..	..	..	..
Other	1	1	2	3	3	3
Main activity	*32	*32	*33	*34	*34	*35
Combustible fuels	*31	*31	*31	*31	*31	*31
Hydro	0	0	0	0	0	0
Nuclear	..	..	..	..	..	..
Other	1	1	2	3	3	3
Combustible fuel input	Terajoules					
Gas-diesel oil	*1165	*1075	*1011	*998	*1015	*1027
Vegetal waste	*49	*55	*55	*48	*35	*36
Total input	*1214	*1130	*1066	*1046	*1050	*1063
Total production	316	323	348	356	360	368
Estimated efficiency (% of production to input)	26	29	33	34	34	35

Statistics on electricity
Somalia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	354	355	362	367	367	367
Combustible fuels	350	350	350	350	350	350
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	4	5	12	17	17	*17
Main activity	354	355	362	367	367	367
Combustible fuels	350	350	350	350	350	350
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	4	5	12	17	17	*17
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	354	355	362	367	367	367
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*37	*37	*43	*47	*17	*16
Consumption	*317	*318	*319	*320	350	*351
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*317	*318	*319	*320	350	*351
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	82	83	87	90	91	91
Combustible fuels	80	80	80	80	80	80
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	3	7	10	11	11
Main activity	82	83	87	90	91	91
Combustible fuels	80	80	80	80	80	80
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	3	7	10	11	11
Combustible fuel input	Terajoules					
Gas-diesel oil	*4214	*4214	*4300	*4300	*4300	*4300
Total input	*4214	*4214	*4300	*4300	*4300	*4300
Total production	1260	1260	1260	1260	1260	1260
Estimated efficiency (% of production to input)	30	30	29	29	29	29

Statistics on electricity
South Africa

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	252578	249655	255112	257769	256064	252639
Combustible fuels	232516	228825	228523	227635	228082	222163
Hydro	4082	3720	3947	5323	5694	5791
Nuclear	13794	12237	15913	15743	11580	13252
Other	2186	4873	6729	9068	10708	11433
Main activity	240401	233391	221756	237648	232803	228480
Combustible fuels	222649	217282	201654	216379	214919	208778
Hydro	3958	3607	3856	5183	5619	5748
Nuclear	13794	12237	15913	15743	11580	13252
Other	..	265	333	343	685	702
Own use in electricity, CHP and heat plants	14360	13938	18308	18601	13853	13438
Net production	238218	235717	236804	239168	242211	239201
Imports	11177	10328	9113	7321	8320	7823
Exports	13836	11343	16140	14423	14458	14482
Losses	20940	19895	16293	21086	22737	22904
Consumption	211678	210031	224196	222422	226730	209748
Energy industries own use	16173	16169	20457	19750	21307	22611
By industry and construction	117427	116575	108405	107106	108341	106661
By transport	3714	3463	3097	3329	3120	2884
By households and other cons.	74364	73824	92237	92237	93962	77592
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*49206	*48168	*51889	*55432	*56205	*58683
Combustible fuels	*43238	*40581	*42581	*45497	*45497	*48380
Hydro	*2125	*2147	*3146	3479	3479	*3479
Nuclear	*1880	*1860	1860	1940	1940	1940
Other	1963	*3580	*4302	*4516	5289	4884
Main activity	*45403	*42448	*43256	*48555	*48555	*51438
Combustible fuels	*41438	*38381	*38190	*43097	*43097	*45980
Hydro	*2085	*2107	*3106	3418	3418	*3418
Nuclear	*1880	*1860	1860	1940	1940	1940
Other	..	*100	*100	100	*100	*100
Combustible fuel input	Terajoules					
Hard Coal	3007095	2909903	2944013	2916848	2812029	2835362
Gas-diesel oil	1935	1892	47541	381	1892	1844
Vegetal waste	*3730	*3730	5386	5457	5496	5926
Total input	3012760	2915525	2996940	2922686	2819417	2843132
Total production	837058	823770	822683	819486	821095	799788
Estimated efficiency (% of production to input)	28	28	27	28	29	28

Statistics on electricity

South Sudan

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	488	578	521	542	584	593
Combustible fuels	486	576	519	539	580	589
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	2	3	4	4
Main activity	234	246	221	503	542	550
Combustible fuels	233	245	220	502	540	548
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	2	2
Own use in electricity, CHP and heat plants	19	18	16	15	16	17
Net production	469	560	505	527	567	576
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	28	27	24	24	26	26
Consumption	429	529	477	498	501	536
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	197	198	223
By transport	..	..	..	..	..	..
By households and other cons.	429	529	477	301	303	313
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*81	*84	*84	*131	*131	*131
Combustible fuels	*80	*80	*80	*120	*120	*120
Hydro	..	3	*3	*3	*3	*3
Nuclear	..	..	..	..	..	..
Other	*1	*1	*1	*8	*8	*8
Main activity	*40	*43	*43	*90	*90	*90
Combustible fuels	*40	*40	*40	*80	*80	*80
Hydro	..	3	*3	*3	*3	*3
Nuclear	..	..	..	..	..	..
Other	0	0	0	*7	*7	*7
Combustible fuel input	Terajoules					
Motor gasoline	..	177	133	75	81	82
Gas-diesel oil	5590	7826	5934	5547	5969	6056
Total input	5590	8003	6067	5622	6050	6139
Total production	1750	2074	1868	1941	2089	2119
Estimated efficiency (% of production to input)	31	26	31	35	35	35

Statistics on electricity

Spain

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	278750	280911	274772	275726	274452	273257
Combustible fuels	112789	128947	113618	133002	118149	117125
Hydro	42970	31368	39865	21070	36803	26874
Nuclear	57305	57196	58633	58039	55766	58349
Other	65686	63400	62656	63615	63734	70909
Main activity	246639	247431	240730	239591	236865	234941
Combustible fuels	81783	96474	80530	97587	81760	80066
Hydro	41906	30620	39062	20593	35894	25977
Nuclear	57305	57196	58633	58039	55766	58349
Other	65645	63141	62505	63372	63445	70549
Own use in electricity, CHP and heat plants	10370	11160	10428	10808	10625	9461
Net production	268380	269751	264344	264918	263827	263796
Imports	12310	14956	21845	23762	24018	18721
Exports	15716	15089	14178	14593	12916	11859
Losses	26393	26509	26720	23823	25596	24790
Consumption	238508	243065	244640	250149	248968	245190
Energy industries own use	11611	11027	12125	11048	10503	10661
By industry and construction	71657	76055	77899	81019	78659	75925
By transport	3906	3978	3902	3987	4046	3937
By households and other cons.	151334	152005	150714	154095	155760	154667
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	106339	106758	105945	103863	103737	109970
Combustible fuels	49736	49296	48400	46456	46009	45821
Hydro	19223	20053	20080	20079	20080	20114
Nuclear	7399	7399	7399	7117	7117	7117
Other	29981	30010	30066	30210	30532	36919
Main activity	99055	100200	99356	97254	97054	103469
Combustible fuels	42880	43169	42243	40299	39799	39842
Hydro	18856	19686	19711	19710	19711	19745
Nuclear	7399	7399	7399	7117	7117	7117
Other	29920	29946	30003	30127	30428	36765
Combustible fuel input	Terajoules					
Hard Coal	411565	481734	362042	443931	385792	132568
Brown Coal	29263	30805	18293	26263	18023	9776
Biogas	8737	8450	8094	8417	8490	8276
Gas-diesel oil	49106	35432	32078	36077	37367	39130
Fuel oil	63913	69326	75467	76073	70862	64155
Natural gas	323797	384257	376162	461908	417687	593612
Blast furnace gas	12500	11345	8924	10863	10685	9099
Fuelwood	*44371	*26243	27506	*30705	*27252	*26235
Vegetal waste	*3168	*23658	*21886	*22528	*22959	*22450
Municipal waste	17098	20900	19226	21160	20926	21010
Others	21154	46247	37208	25031	21231	11201
Total input	984672	1138397	986886	1162957	1041274	937512
Total production	406040	464209	409025	478807	425336	421650
Estimated efficiency (% of production to input)	41	41	41	41	41	45

Statistics on electricity
Sri Lanka

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	12862	13227	14363	15004	15985	16726
Combustible fuels	7986	6854	9721	10381	9072	11218
Hydro	4563	5969	4221	4039	6401	4802
Nuclear	..	..	..	..	..	..
Other	313	404	422	583	513	705
Main activity	12812	12046	13461	13821	14577	15519
Combustible fuels	7986	6796	9630	10296	8985	11127
Hydro	4552	4904	3482	3075	5169	3783
Nuclear	..	..	..	..	..	..
Other	274	345	349	450	423	609
Own use in electricity, CHP and heat plants	438	561	633	336	612	635
Net production	12424	12666	13730	14668	15374	16091
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	1426	925	997	1179	1407	1337
Consumption	10997	11741	12715	13489	14119	14738
Energy industries own use	..	..	..	..	..	..
By industry and construction	3758	3880	4149	4372	4598	4693
By transport	..	..	..	..	..	..
By households and other cons.	7239	7861	8566	9117	9521	10045
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	4043	3948	4010	4094	4124	*4334
Combustible fuels	2233	2108	2088	2144	2069	*2182
Hydro	1664	1684	1722	1720	1793	1809
Nuclear	..	..	..	..	..	..
Other	146	156	200	230	262	*343
Main activity	3723	3593	3598	3658	3642	*3800
Combustible fuels	2213	2088	2064	2115	2037	*2148
Hydro	1377	1377	1384	1364	1399	1399
Nuclear	..	..	..	..	..	..
Other	133	128	150	179	206	253
Combustible fuel input	Terajoules					
Hard Coal	39964	55099	58733	61151	58880	64737
Gas-diesel oil	12995	4240	16761	17535	7783	17404
Fuel oil	24659	12391	13227	19974	21776	26107
Naphtha	5904	6437	8010	9060	3071	5543
Bagasse	524	726	911	848	*1113	*1567
Total input	84047	78893	97643	108568	92622	115358
Total production	28748	24673	34995	37373	32660	40387
Estimated efficiency (% of production to input)	34	31	36	34	35	35

Statistics on electricity

St. Helena and Depend.

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	11	11	12	11	12	12
Combustible fuels	9	8	8	9	8	9
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	3	3	3	4	3
Main activity	11	11	12	11	12	12
Combustible fuels	9	8	8	9	8	9
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	3	3	3	4	3
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	11	11	12	11	12	12
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*2	*2	*2	*2	*1	*2
Consumption	9	9	9	9	11	10
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	9	9	9	9	11	10
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	9	10	11	11	12	12
Combustible fuels	8	8	8	8	8	8
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	*3	3	*3	4	*4
Main activity	9	10	11	11	12	12
Combustible fuels	8	8	8	8	8	8
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	*3	3	*3	4	*4
Combustible fuel input	Terajoules					
Gas-diesel oil	85	72	67	*77	*69	*83
Total input	85	72	67	*77	*69	*83
Total production	32	29	30	31	28	33
Estimated efficiency (% of production to input)	38	41	45	40	41	39

Statistics on electricity
St. Kitts-Nevis

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*221	*217	*228	232	*232	*235
Combustible fuels	*211	*207	*217	221	*221	*224
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	10	10	11	11	11	*11
Main activity	*220	*216	*227	231	*231	*234
Combustible fuels	*210	*206	*216	220	*220	*223
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	10	10	11	11	11	*11
Own use in electricity, CHP and heat plants	*2	*2	*2	5	*5	*5
Net production	*219	*215	*225	227	*227	*230
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*39	*31	*36	*45	*40	*40
Consumption	*180	*184	*189	*181	*187	*189
Energy industries own use	..	..	..	..	..	..
By industry and construction	*36	*37	*38	*36	*37	*37
By transport	..	..	..	..	..	..
By households and other cons.	*144	*147	*152	*145	*150	*152
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*64	64	65	65	71	*71
Combustible fuels	*60	60	60	60	67	*67
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	4	4	4	4	4	4
Main activity	*60	60	61	61	67	*67
Combustible fuels	*56	56	56	56	63	*63
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	4	4	4	4	4	4
Combustible fuel input	Terajoules					
Gas-diesel oil	*1978	*2051	*2107	*2077	*2090	*2090
Total input	*1978	*2051	*2107	*2077	*2090	*2090
Total production	*760	*746	*781	796	*796	*806
Estimated efficiency (% of production to input)	38	36	37	38	38	39

Statistics on electricity

St. Lucia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	379	381	391	400	404	413
Combustible fuels	379	381	391	400	399	408
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	5	*5
Main activity	379	381	391	400	404	413
Combustible fuels	379	381	391	400	399	408
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	5	*5
Own use in electricity, CHP and heat plants	14	14	14	13	17	17
Net production	366	368	378	387	387	396
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	34	30	29	27	25	27
Consumption	332	338	348	360	362	369
Energy industries own use	..	..	..	..	..	..
By industry and construction	18	18	19	18	17	18
By transport	..	..	..	..	..	..
By households and other cons.	314	320	330	341	344	351
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	88	88	88	88	91	91
Combustible fuels	88	88	88	88	88	88
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	3	3
Main activity	88	88	88	88	91	91
Combustible fuels	88	88	88	88	88	88
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	3	3
Combustible fuel input	Terajoules					
Gas-diesel oil	3406	3422	3513	3593	3593	*3656
Total input	3406	3422	3513	3593	3593	*3656
Total production	1366	1373	1409	1441	1437	1469
Estimated efficiency (% of production to input)	40	40	40	40	40	40

Statistics on electricity

St. Pierre-Miquelon

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	48	49	48	49	51	52
Combustible fuels	48	49	48	49	51	52
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	0	..	..	..
Main activity	48	49	48	49	51	52
Combustible fuels	48	49	48	49	51	52
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	0	..	..	..
Own use in electricity, CHP and heat plants	2	2	2	2	2	2
Net production	46	47	47	47	49	50
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	0	*2	*2	*1	*1	*1
Consumption	46	44	45	46	47	49
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	46	44	45	46	47	49
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	27	25	25	25	26	26
Combustible fuels	26	25	25	25	26	26
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	0	0	0	0	0
Main activity	27	25	25	25	26	26
Combustible fuels	26	25	25	25	26	26
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	0	0	0	0	0
Combustible fuel input	Terajoules					
Gas-diesel oil	*500	*500	*500	*499	*507	*525
Total input	*500	*500	*500	*499	*507	*525
Total production	174	175	174	175	183	188
Estimated efficiency (% of production to input)	35	35	35	35	36	36

Statistics on electricity

St. Vincent-Grenadines

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	142	147	153	151	151	*163
Combustible fuels	129	129	136	129	125	*136
Hydro	12	17	16	20	24	*25
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	2	*2
Main activity	142	146	153	150	150	*162
Combustible fuels	129	129	136	129	125	*136
Hydro	12	17	16	20	24	*25
Nuclear	..	..	..	..	..	..
Other	0	1	1	1	1	*1
Own use in electricity, CHP and heat plants	5	5	5	5	5	*5
Net production	137	142	149	146	146	*158
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	10	9	11	9	11	*10
Consumption	127	133	138	137	135	*148
Energy industries own use	..	..	..	..	..	..
By industry and construction	7	7	7	7	7	*8
By transport	..	..	..	..	..	..
By households and other cons.	120	125	131	130	128	*140
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*51	53	53	48	46	48
Combustible fuels	*44	46	46	41	38	40
Hydro	*6	6	6	6	6	6
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	2	2
Main activity	*51	53	53	48	45	48
Combustible fuels	*44	46	46	41	38	40
Hydro	*6	6	6	6	6	6
Nuclear	..	..	..	..	..	..
Other	0	1	1	1	2	2
Combustible fuel input	Terajoules					
Gas-diesel oil	1235	1228	1306	1227	1190	*1299
Total input	1235	1228	1306	1227	1190	*1299
Total production	466	463	490	464	450	*490
Estimated efficiency (% of production to input)	38	38	38	38	38	38

Statistics on electricity
State of Palestine

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	340	515	537	546	420	811
Combustible fuels	337	506	495	501	360	691
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	3	9	43	45	60	120
Main activity	268	360	360	392	284	651
Combustible fuels	266	355	339	369	254	591
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	5	21	23	30	60
Own use in electricity, CHP and heat plants	1	0	0	0	0	0
Net production	339	515	537	546	420	811
Imports	4935	5413	5473	5577	5916	6249
Exports	..	..	..	..	..	..
Losses	633	711	721	735	760	847
Consumption	4642	5216	5289	5388	5576	6213
Energy industries own use	..	..	..	..	..	..
By industry and construction	527	576	584	648	715	686
By transport	..	..	..	..	..	..
By households and other cons.	4115	4640	4705	4740	4861	5528
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	163	172	185	190	200	240
Combustible fuels	160	160	160	160	160	160
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	3	12	25	30	40	80
Main activity	142	146	153	155	160	180
Combustible fuels	140	140	140	140	140	140
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	6	13	15	20	40
Combustible fuel input	Terajoules					
Motor gasoline	337	443	403	279	235	222
Gas-diesel oil	2989	3939	4094	4670	3040	6050
Total input	3325	4382	4497	4949	3275	6272
Total production	1212	1820	1780	1803	1297	2489
Estimated efficiency (% of production to input)	36	42	40	36	40	40

Statistics on electricity
Sudan

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	11505	13171	14558	15679	16395	17024
Combustible fuels	2579	4738	6489	6312	6717	*6792
Hydro	8913	8420	8051	9347	9657	10210
Nuclear	..	..	..	..	..	..
Other	13	13	18	20	21	22
Main activity	11389	13060	14447	15562	16277	16915
Combustible fuels	2463	4627	6378	6195	6599	*6683
Hydro	8913	8420	8051	9347	9657	10210
Nuclear	..	..	..	..	..	..
Other	13	13	18	20	21	22
Own use in electricity, CHP and heat plants	125	138	182	261	475	*487
Net production	11380	13033	14376	15418	15920	16536
Imports	443	129	439	891	808	*818
Exports	..	5	6	..	..	..
Losses	2502	2870	3030	3140	3028	*3250
Consumption	9710	10580	11799	12961	13700	*14104
Energy industries own use	..	..	..	..	..	..
By industry and construction	1628	1512	1794	2003	1795	*1898
By transport	..	..	..	..	..	..
By households and other cons.	8082	9068	10005	10958	11905	*12207
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*3340	3321	3540	3770	3933	*4138
Combustible fuels	*1739	1717	1935	2004	2013	*2213
Hydro	1593	1593	1593	1753	1907	1907
Nuclear	..	..	..	..	..	..
Other	8	11	12	13	13	18
Main activity	3150	3131	3350	3580	3734	*3938
Combustible fuels	*1549	1527	1745	1814	1814	*2013
Hydro	1593	1593	1593	1753	1907	1907
Nuclear	..	..	..	..	..	..
Other	8	11	12	13	13	18
Combustible fuel input	Terajoules					
Crude oil	..	*23265	*31725	*31725	31725	*31725
Gas-diesel oil	29068	*30272	*31863	*39345	*39345	*39345
Bagasse	*2093	*2000	*1977	*2100	*2131	*1961
Total input	31161	*55537	*65565	*73170	*73201	*73031
Total production	9285	17057	23359	22722	24182	*24451
Estimated efficiency (% of production to input)	30	31	36	31	33	33

Statistics on electricity

Suriname

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	2082	2088	2031	2122	2293	2337
Combustible fuels	1276	1378	1239	1187	1284	1375
Hydro	797	702	783	926	1000	952
Nuclear	..	..	..	..	..	..
Other	9	9	9	9	10	10
Main activity	760	766	582	671	*589	603
Combustible fuels	751	757	573	662	*579	593
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	9	9	9	9	10	10
Own use in electricity, CHP and heat plants	82	75	38	98	84	60
Net production	2000	2014	1993	2024	2210	2277
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	190	242	217	217	426	452
Consumption	1768	1909	1940	1919	1935	1976
Energy industries own use	..	..	..	..	..	..
By industry and construction	727	716	851	852	857	845
By transport	..	..	..	..	..	..
By households and other cons.	1041	1194	1089	1067	1079	1131
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	502	502	508	529	532	539
Combustible fuels	307	307	313	334	336	343
Hydro	189	189	189	189	189	*189
Nuclear	..	..	..	..	..	..
Other	6	6	6	6	7	7
Main activity	190	190	196	217	220	227
Combustible fuels	184	184	190	211	213	220
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	6	6	6	6	7	7
Combustible fuel input	Terajoules					
Gas-diesel oil	731	753	674	690	676	1111
Fuel oil	13756	13866	12420	12681	12444	12467
Natural gas	149	152	136	136	195	232
Total input	14636	14771	13230	13507	13315	13811
Total production	4595	4960	4461	4275	4621	4950
Estimated efficiency (% of production to input)	31	34	34	32	35	36

Statistics on electricity

Sweden

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	153663	162112	156010	164250	163400	168439
Combustible fuels	13632	13906	15150	15547	15571	16390
Hydro	63872	75439	62137	65168	62250	65393
Nuclear	64877	56348	63101	65696	68549	66130
Other	11282	16419	15622	17839	17030	20526
Main activity	147866	156285	150272	158035	157261	161475
Combustible fuels	7847	8090	9423	9344	9443	9431
Hydro	63860	75428	62126	65156	62239	65388
Nuclear	64877	56348	63101	65696	68549	66130
Other	11282	16419	15622	17839	17030	20526
Own use in electricity, CHP and heat plants	3706	3067	3479	3724	3723	2794
Net production	149957	159045	152531	160526	159677	165645
Imports	13852	9294	14287	11896	12202	9070
Exports	29475	31894	26022	30888	29425	35231
Losses	7335	6988	8569	9495	10537	10842
Consumption	125195	127983	130784	130495	130629	127404
Energy industries own use	3004	3124	3288	3241	3067	2846
By industry and construction	50730	50281	50289	50939	50719	49478
By transport	2615	2595	2664	2476	2573	2738
By households and other cons.	68846	71983	74543	73839	74270	72342
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	39921	40885	41511	39798	41223	42824
Combustible fuels	9270	8945	8689	7442	8408	8343
Hydro	15996	16329	16466	16502	16431	16462
Nuclear	9507	9688	9768	8999	8656	8624
Other	5148	5923	6588	6855	7728	9395
Main activity	38718	39683	40305	38513	39775	41413
Combustible fuels	8076	7751	7495	6175	6978	6950
Hydro	15987	16321	16454	16484	16413	16444
Nuclear	9507	9688	9768	8999	8656	8624
Other	5148	5923	6588	6855	7728	9395
Combustible fuel input	Terajoules					
Hard Coal	8423	8255	5358	6493	6753	4274
Peat	5261	4441	4870	4626	7239	4827
Gas-diesel oil	129	1376	1892	1075	1634	1720
Fuel oil	3232	1454	2707	1656	2060	889
Natural gas	7695	8082	11451	4724	6769	4968
Blast furnace gas	5749	5435	5608	6833	7167	6031
Fuelwood	*121842	*124449	*135091	*143783	*142651	*153866
Municipal waste	56454	58887	61789	65148	60846	64100
Industrial waste	863	749	746	748	755	744
Other recovered gases	1648	1542	1951	1992	1891	1351
Others	1483	1467	1646	1725	1628	1460
Total input	*212779	*216138	*233108	*238804	*239394	*244229
Total production	49075	50062	54540	55969	56056	59004
Estimated efficiency (% of production to input)	23	23	23	23	23	24

Statistics on electricity

Switzerland

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	71767	67720	63175	63089	69109	73471
Combustible fuels	3566	3521	3898	3864	3727	3768
Hydro	39701	39881	36689	37033	37802	40962
Nuclear	27557	23089	21146	20376	25513	26418
Other	943	1229	1442	1816	2067	2324
Main activity	64902	60625	55986	55592	61145	65258
Combustible fuels	457	425	681	662	596	616
Hydro	36787	37001	34050	34421	34915	38079
Nuclear	27557	23089	21146	20376	25513	26418
Other	101	110	109	133	122	146
Own use in electricity, CHP and heat plants	1759	1565	1469	1437	1659	1732
Net production	70008	66155	61706	61652	67450	71739
Imports	28530	34033	34096	36496	31020	29505
Exports	34021	35068	30173	30946	32607	35765
Losses	4696	4577	4468	4559	4228	4149
Consumption	59812	60535	61152	62631	61632	61330
Energy industries own use	2355	2296	2922	4160	3987	4133
By industry and construction	18019	17989	17761	17897	17311	17269
By transport	3069	3136	3200	3150	3089	3042
By households and other cons.	36369	37114	37269	37424	37245	36886
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	19165	19618	20839	21614	22063	22422
Combustible fuels	993	1016	961	946	940	942
Hydro	13743	13815	14806	15354	15542	15574
Nuclear	3308	3333	3333	3333	3333	3333
Other	1121	1454	1739	1981	2248	2573
Main activity	16813	16957	17736	18286	18456	18512
Combustible fuels	263	260	217	257	257	259
Hydro	13182	13304	14111	14621	14791	14845
Nuclear	3308	3333	3333	3333	3333	3333
Other	60	60	75	75	75	75
Combustible fuel input	Terajoules					
Biogas	1898	1990	2146	2235	2230	2376
Gas-diesel oil	301	258	258	293	215	276
Fuel oil	..	..	..	2	..	..
Liquefied petroleum gas	47	47	47	25	17	17
Natural gas	3321	4639	6679	5568	4927	5399
Fuelwood	6041	4944	5551	*6657	6312	7686
Municipal waste	41292	42832	44564	45189	45500	45902
Industrial waste	2002	881	834	1034	1189	1232
Total input	54902	55591	60079	61003	60392	62888
Total production	12838	12676	14033	13912	13417	13565
Estimated efficiency (% of production to input)	23	23	23	23	22	22

Statistics on electricity
Syrian Arab Republic

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	21223	17982	18202	18412	18210	17586
Combustible fuels	18883	17569	17273	17658	17456	16832
Hydro	2340	413	929	754	754	754
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	20569	17383	17556	17695	17538	17006
Combustible fuels	18229	16970	16627	16941	16784	16252
Hydro	2340	413	929	754	754	754
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	2425	2055	2080	2104	2081	2010
Net production	18798	15927	16122	16308	16129	15577
Imports	..	..	..	..	..	..
Exports	138	262	67	543	543	347
Losses	3272	2627	2857	2415	2382	3687
Consumption	15388	13038	13198	13351	13205	12596
Energy industries own use	..	..	..	..	..	..
By industry and construction	5175	4385	4439	4490	4441	4237
By transport	..	..	..	..	..	..
By households and other cons.	10213	8653	8759	8861	8764	8360
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*9604	*9123	9687	*9691	10059	10060
Combustible fuels	*8109	*7550	8192	*8199	8567	8567
Hydro	1494	1572	1494	1490	1490	1490
Nuclear	..	..	..	..	..	..
Other	1	1	1	2	2	3
Main activity	*8509	*8028	8775	*8779	9087	9088
Combustible fuels	*7014	*6455	7280	*7287	7595	7595
Hydro	1494	1572	1494	1490	1490	1490
Nuclear	..	..	..	..	..	..
Other	1	1	1	2	2	3
Combustible fuel input	Terajoules					
Gas-diesel oil	11696	10707	11567	12814	11997	10373
Fuel oil	43874	49288	63590	69407	69407	69407
Natural gas	151174	132663	115694	114151	113534	108907
Total input	206744	192658	190851	196372	194938	188686
Total production	67979	63248	62183	63569	62842	60596
Estimated efficiency (% of production to input)	33	33	33	32	32	32

Statistics on electricity

Tajikistan

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	16472	17162	17232	18144	19743	20676
Combustible fuels	160	302	608	1011	1348	1507
Hydro	16312	16860	16624	17133	18395	19169
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	16472	17162	17232	18144	19743	20676
Combustible fuels	160	302	608	1011	1348	1507
Hydro	16312	16860	16624	17133	18395	19169
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	24	25	36	229	205	213
Net production	16448	17137	17196	17915	19538	20463
Imports	13	63	103	110	559	281
Exports	1366	1400	1427	1421	2945	3175
Losses	2804	2700	2746	*2873	*2968	2429
Consumption	12407	12511	12986	13842	13890	14167
Energy industries own use	63	65	64	68	..	..
By industry and construction	4132	4186	4758	4428	*3438	3464
By transport	41	50	72	30	7	*8
By households and other cons.	8171	8210	8092	9316	10445	10695
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	6280	6283	6577	*6577	*6577	6451
Combustible fuels	421	422	719	*719	*719	718
Hydro	5859	5861	5858	*5858	*5858	5733
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	6280	6283	6577	*6577	*6577	6451
Combustible fuels	421	422	719	*719	*719	718
Hydro	5859	5861	5858	*5858	*5858	5733
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Hard Coal	2044	3047	*6075	13851	21238	23250
Total input	2044	3047	*6075	13851	21238	23250
Total production	576	1087	2189	3640	4853	5425
Estimated efficiency (% of production to input)	28	36	36	26	23	23

Statistics on electricity
Thailand

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	172208	177227	188265	181940	182288	190681
Combustible fuels	165194	170641	180891	171453	168326	175418
Hydro	5323	3878	3651	4833	7783	6446
Nuclear	..	..	..	..	..	..
Other	1691	2708	3723	5654	6179	8818
Main activity	139690	141436	136455	126251	118161	121749
Combustible fuels	133901	136947	132074	119793	108237	111059
Hydro	5300	3850	3632	4811	7745	6411
Nuclear	..	..	..	..	..	..
Other	489	639	749	1648	2178	4279
Own use in electricity, CHP and heat plants	5931	3338	3300	3051	2824	2932
Net production	166277	173889	184965	178889	179464	187749
Imports	12260	14414	19825	24427	26669	25547
Exports	2066	2267	1436	1106	1093	2882
Losses	10545	11782	12225	11920	12904	13286
Consumption	168788	174053	184960	185369	188048	193176
Energy industries own use	..	..	..	..	..	..
By industry and construction	82623	83982	88878	87772	87829	86104
By transport	105	108	113	245	216	215
By households and other cons.	86060	89963	95969	97352	100003	106857
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	37723	40898	43147	44024	45179	45260
Combustible fuels	30736	33770	34721	35226	35426	35082
Hydro	3459	3469	3467	3467	*3682	*3682
Nuclear	..	..	..	..	..	..
Other	*3528	*3659	*4958	*5330	*6071	*6495
Main activity	22541	24116	26183	27060	28215	28296
Combustible fuels	17569	19003	19772	20277	20477	20133
Hydro	3444	3454	3452	3452	*3667	*3667
Nuclear	..	..	..	..	..	..
Other	*1528	*1659	*2958	*3330	*4071	*4495
Combustible fuel input	Terajoules					
Hard Coal	224205	216529	220617	206690	226974	213179
Brown Coal	182557	155355	174281	168344	150121	145137
Biogas	7564	8832	8282	10987	24932	27594
Gas-diesel oil	1548	2064	2537	1628	1480	1480
Fuel oil	14665	9373	5616	1890	608	987
Natural gas	1030723	1075488	1053538	1022823	1008529	1051037
Bagasse	*153602	*153538	*202251	*198197	*241913	*165705
Vegetal waste	..	..	*202357	*139385	*91490	*196000
Municipal waste	592	5789	1225	1521	2831	4310
Other liquid biofuels	..	..	..	..	..	5678
Total input	1615455	1626968	1870704	1751466	1748877	1811108
Total production	594698	614308	651208	617230	605974	631504
Estimated efficiency (% of production to input)	37	38	35	35	35	35

Statistics on electricity

Timor-Leste

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	351	353	415	430	453	518
Combustible fuels	349	350	413	427	450	515
Hydro	2	2	2	2	2	2
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	1	*1
Main activity	351	353	415	430	453	518
Combustible fuels	349	350	413	427	450	515
Hydro	2	2	2	2	2	2
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	1	*1
Own use in electricity, CHP and heat plants	23	23	22	23	27	30
Net production	328	329	393	406	425	487
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*70	*75	*80	*85	*90	*103
Consumption	*258	254	313	321	335	384
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*258	254	313	321	335	384
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	283	283	283	283	283	283
Combustible fuels	283	283	283	283	283	283
Hydro	0	0	0	0	0	0
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	1	1
Main activity	283	283	283	283	283	283
Combustible fuels	283	283	283	283	283	283
Hydro	0	0	0	0	0	0
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	1	1
Combustible fuel input	Terajoules					
Gas-diesel oil	*2881	*2890	2387	3523	2861	4236
Total input	*2881	*2890	2387	3523	2861	4236
Total production	1256	1261	1485	1538	1622	1855
Estimated efficiency (% of production to input)	44	44	62	44	57	44

Statistics on electricity

Togo

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	358	444	950	692	589	723
Combustible fuels	233	383	742	485	389	481
Hydro	125	61	208	205	196	239
Nuclear	..	..	..	..	..	..
Other	..	..	..	2	3	3
Main activity	347	432	937	677	582	716
Combustible fuels	222	371	729	472	385	478
Hydro	125	61	208	205	196	239
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	7	16	26	15	14	30
Net production	351	428	924	677	575	693
Imports	857	857	448	747	882	963
Exports	..	..	..	..	..	118
Losses	186	184	188	121	197	210
Consumption	1023	1138	1185	1313	1239	1328
Energy industries own use	..	..	..	..	..	..
By industry and construction	309	387	413	436	604	628
By transport	..	..	..	..	..	..
By households and other cons.	714	751	772	877	635	700
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	227	227	213	227	227	230
Combustible fuels	160	160	158	158	157	158
Hydro	67	67	55	67	67	67
Nuclear	..	..	..	..	..	..
Other	..	..	..	3	4	5
Main activity	219	219	205	217	216	217
Combustible fuels	152	152	150	150	149	150
Hydro	67	67	55	67	67	67
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	172	559	129	258	172	168
Fuel oil	1381	1397	5239	3621	1316	14
Natural gas	1481	1467	262	0	1767	3876
Vegetal waste	..	29	29	..	..	..
Total input	3034	3452	5659	3879	3254	4058
Total production	839	1380	2671	1745	1401	1733
Estimated efficiency (% of production to input)	28	40	47	45	43	43

Statistics on electricity
Tonga

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	55	55	60	67	66	71
Combustible fuels	52	52	55	61	62	64
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	3	5	5	4	6
Main activity	55	55	60	67	66	71
Combustible fuels	52	52	55	61	62	64
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	3	5	5	4	6
Own use in electricity, CHP and heat plants	2	1	2	2	2	2
Net production	53	54	58	65	64	69
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	5	5	5	6	6	6
Consumption	*48	*49	*53	*59	*58	*63
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*48	*49	*53	*59	*58	*63
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*16	*17	20	24	24	25
Combustible fuels	*14	*15	17	18	18	18
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*2	*2	2	6	6	7
Main activity	*16	*17	20	24	24	25
Combustible fuels	*14	*15	17	18	18	18
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*2	*2	2	6	6	7
Combustible fuel input	Terajoules					
Fuel oil	492	487	*518	*542	*594	602
Total input	492	487	*518	*542	*594	602
Total production	187	188	199	221	221	231
Estimated efficiency (% of production to input)	38	39	38	41	37	38

Statistics on electricity
Trinidad and Tobago

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	9422	9570	9419	9323	9225	9188
Combustible fuels	9418	9565	9414	9318	9220	9183
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	4	5	5	5	5	5
Main activity	9341	9485	9337	9241	9149	9112
Combustible fuels	9337	9480	9332	9236	9144	9108
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	4	5	5	5	5	5
Own use in electricity, CHP and heat plants	343	348	343	339	336	335
Net production	9079	9222	9076	8984	8889	8853
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	245	248	253	275	426	424
Consumption	8835	8974	8823	8709	8463	8429
Energy industries own use	..	..	..	..	..	..
By industry and construction	5341	5425	5334	5265	5116	5096
By transport	..	..	..	..	..	..
By households and other cons.	3494	3549	3489	3444	3347	3333
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2499	2502	2505	2509	2156	2118
Combustible fuels	2496	2499	2502	2506	2153	2115
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	3	3	3	3	3	3
Main activity	2405	2405	2405	2405	2049	2022
Combustible fuels	2402	2402	2402	2402	2046	2019
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	3	3	3	3	3	3
Combustible fuel input	Terajoules					
Gas-diesel oil	215	215	301	294	300	311
Other oil products	0	80	201	158	..	..
Natural gas	121136	118721	109361	101416	97392	102221
Total input	121351	119016	109863	101868	97692	102532
Total production	33905	34434	33890	33545	33193	33060
Estimated efficiency (% of production to input)	28	29	31	33	34	32

Statistics on electricity
Tunisia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	19024	19676	19808	20589	21012	22083
Combustible fuels	18254	18904	19002	19758	20085	20986
Hydro	56	69	45	17	17	66
Nuclear	..	..	..	..	..	..
Other	714	703	761	814	910	1032
Main activity	18257	18691	18634	19402	19545	20549
Combustible fuels	17694	18174	18115	18936	19075	19983
Hydro	56	69	45	17	17	66
Nuclear	..	..	..	..	..	..
Other	507	448	474	449	453	500
Own use in electricity, CHP and heat plants	653	559	492	428	457	471
Net production	18371	19117	19316	20161	20555	21612
Imports	536	403	134	450	382	472
Exports	625	500	255	483	484	631
Losses	2842	3166	3052	3507	3584	3641
Consumption	15418	16377	16001	16542	16879	17763
Energy industries own use	228	940	432	429	375	366
By industry and construction	5445	5478	5423	5389	5737	5719
By transport	93	94	96	94	99	93
By households and other cons.	9652	9865	10050	10630	10668	11585
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	5005	4976	5240	5085	4922	5526
Combustible fuels	4695	4649	4901	4734	4474	5068
Hydro	62	62	62	62	62	62
Nuclear	..	..	..	..	..	..
Other	248	265	277	289	386	396
Main activity	4792	4753	5005	4838	4578	5173
Combustible fuels	4497	4451	4703	4536	4276	4870
Hydro	62	62	62	62	62	62
Nuclear	..	..	..	..	..	..
Other	233	240	240	240	240	241
Combustible fuel input	Terajoules					
Gas-diesel oil	43	146	86	37	32	21
Fuel oil	3394	9534	687	727	808	785
Natural gas	174994	167766	169416	173384	176826	184591
Total input	178431	177447	170189	174149	177666	185397
Total production	65714	68054	68407	71129	72306	75550
Estimated efficiency (% of production to input)	37	38	40	41	41	41

Statistics on electricity

Turkey

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	251963	261783	274408	297278	304802	303898
Combustible fuels	200079	178871	185085	211290	208733	174041
Hydro	40645	67146	67231	58218	59938	88823
Nuclear	..	..	..	..	..	..
Other	11239	15766	22092	27769	36130	41034
Main activity	233781	243163	253746	276993	284884	280964
Combustible fuels	183126	161979	166450	193609	192399	155443
Hydro	39764	65924	66386	57252	58865	87540
Nuclear	..	..	..	..	..	..
Other	10891	15260	20910	26133	33620	37980
Own use in electricity, CHP and heat plants	12514	11883	12471	13020	14300	14762
Net production	239449	249900	261937	284258	290502	289136
Imports	7953	7136	6330	2728	2477	2212
Exports	2696	3195	1452	3304	3112	2789
Losses	37331	36528	35611	34659	31635	31285
Consumption	207375	217313	231204	249023	258232	257273
Energy industries own use	1933	2812	3034	3267	3298	4066
By industry and construction	95844	100723	105263	113215	114414	111610
By transport	916	1062	1156	1247	1350	1578
By households and other cons.	108682	112716	121751	131293	139170	140020
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	69520	73147	78497	85201	88551	91267
Combustible fuels	41730	41810	44278	46762	46712	47284
Hydro	23643	25868	26681	27273	28291	28503
Nuclear	..	..	..	..	..	..
Other	4147	5469	7538	11166	13548	15480
Main activity	65216	68694	73220	79011	82114	83679
Combustible fuels	38047	37999	40055	42345	42262	42062
Hydro	23099	25324	26131	26722	27740	27951
Nuclear	..	..	..	..	..	..
Other	4070	5371	7034	9944	12112	13666
Combustible fuel input	Terajoules					
Hard Coal	373458	423837	479342	518543	612465	609747
Brown Coal	568241	431698	518993	550750	587461	617324
Biogas	9653	11119	14721	17569	20496	24824
Fuel oil	18342	10585	10342	5010	2815	3738
Natural gas	897578	763792	684008	805752	662079	425807
Coke-oven gas	8965	9296	8328	10686	11457	9757
Blast furnace gas	23648	22876	23748	25637	21013	20009
Fuelwood	*589	*556	*986	*3288	*6269	*11765
Municipal waste	..	..	..	..	171	436
Industrial waste	144	1362	2067	2446	2259	240
Others	4386	9675	7095	5086	30	187
Total input	1905003	1684796	1749630	1944765	1926516	1723833
Total production	720284	643936	666306	760644	751440	626548
Estimated efficiency (% of production to input)	38	38	38	39	39	36

Statistics on electricity
Turkmenistan

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	20400	22534	22534	22534	22534	22534
Combustible fuels	20400	22534	22534	22531	22531	22531
Hydro	..	..	..	3	3	3
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	20400	22534	22534	22534	22534	22534
Combustible fuels	20400	22534	22534	22531	22531	22531
Hydro	..	..	..	3	3	3
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	1542	1703	1703	1703	1703	1703
Net production	18858	20831	20831	20831	20831	20831
Imports	..	..	..	..	..	..
Exports	3210	3201	3201	3201	3201	3201
Losses	2547	2895	2895	2892	2892	2892
Consumption	13101	14735	14735	14738	14738	14738
Energy industries own use	2012	2262	2262	2262	2262	2262
By industry and construction	4001	4500	4500	4502	4502	4502
By transport	288	324	324	324	324	324
By households and other cons.	6800	7649	7649	7650	7650	7650
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*4001	*4401	4675	5201	5201	*5201
Combustible fuels	*4000	*4400	4674	5200	5200	*5200
Hydro	1	1	1	1	1	1
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*4001	*4401	4675	5201	5201	*5201
Combustible fuels	*4000	*4400	4674	5200	5200	*5200
Hydro	1	1	1	1	1	1
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Natural gas	371853	410752	410752	410748	410748	410748
Total input	371853	410752	410752	410748	410748	410748
Total production	73440	81122	81122	81111	81111	81111
Estimated efficiency (% of production to input)	20	20	20	20	20	20

Statistics on electricity

Turks and Caicos Islands

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*227	*230	*245	*293	*258	*261
Combustible fuels	*227	*230	*245	*293	*257	*260
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	1	1
Main activity	*227	*230	*245	*293	*258	*261
Combustible fuels	*227	*230	*245	*293	*257	*260
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	1	1
Own use in electricity, CHP and heat plants	*5	*3	*5	*3	*9	*7
Net production	*222	*227	*240	*290	*249	*254
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*13	*13	*15	*10	*13	*13
Consumption	209	*215	230	284	237	*241
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	209	*215	230	284	237	*241
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	79	82	82	82	85	85
Combustible fuels	79	82	82	82	84	84
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	1	1
Main activity	79	82	82	82	85	85
Combustible fuels	79	82	82	82	84	84
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	1	1
Combustible fuel input	Terajoules					
Gas-diesel oil	*2408	*2494	*2580	*2666	*2774	*2855
Total input	*2408	*2494	*2580	*2666	*2774	*2855
Total production	*817	*828	*882	*1055	*925	*935
Estimated efficiency (% of production to input)	34	33	34	40	33	33

Statistics on electricity
Tuvalu

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	6	6	7	8	9	*9
Combustible fuels	6	6	5	6	7	*7
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	1	2	2	2	2
Main activity	6	6	7	8	9	*9
Combustible fuels	6	6	5	6	7	*7
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	1	2	2	2	2
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	6	6	7	8	9	*9
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	1	1	1	1	*1	*1
Consumption	5	6	7	7	*8	*8
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	5	6	7	7	*8	*8
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	3	*5	*5	*5	5	*5
Combustible fuels	3	*3	*3	*3	3	*3
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	2	2	2	2	2
Main activity	3	*5	*5	*5	5	*5
Combustible fuels	3	*3	*3	*3	3	*3
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	2	2	2	2	2
Combustible fuel input	Terajoules					
Gas-diesel oil	65	61	59	62	*73	*73
Total input	65	61	59	62	*73	*73
Total production	21	20	20	21	25	*24
Estimated efficiency (% of production to input)	32	33	33	34	34	33

Statistics on electricity

Uganda

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	3223	3300	3508	3854	4040	4364
Combustible fuels	352	247	244	381	405	300
Hydro	2871	3052	3261	3447	3602	3986
Nuclear	..	..	..	..	..	..
Other	..	..	4	25	32	78
Main activity	2699	2819	3037	3440	3389	3687
Combustible fuels	138	73	66	231	199	103
Hydro	2561	2745	2967	3183	3158	3506
Nuclear	..	..	..	..	..	..
Other	..	..	4	25	32	78
Own use in electricity, CHP and heat plants	0	0	0	0	0	12
Net production	3223	3300	3508	3854	4040	4352
Imports	33	49	54	65	84	104
Exports	168	122	165	317	233	299
Losses	728	713	765	755	789	814
Consumption	2289	2487	2594	2802	3067	3233
Energy industries own use	..	..	..	..	..	..
By industry and construction	1450	1581	1664	1805	2012	2163
By transport	..	..	..	..	..	..
By households and other cons.	839	906	930	997	1055	1070
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	851	861	872	913	984	1256
Combustible fuels	156	166	166	178	198	199
Hydro	695	695	695	712	744	1004
Nuclear	..	..	..	..	..	..
Other	..	..	11	22	42	52
Main activity	732	732	742	752	772	1007
Combustible fuels	102	102	102	102	102	102
Hydro	630	630	630	630	630	855
Nuclear	..	..	..	..	..	..
Other	..	..	11	21	41	51
Combustible fuel input	Terajoules					
Gas-diesel oil	..	43	..	..	..	..
Fuel oil	*1240	723	*1030	*3515	3015	978
Bagasse	*4112	*3305	*3614	*3050	*4255	*4726
Total input	*5352	*4072	*4644	*6565	*7269	*5704
Total production	1265	890	878	1371	1459	1079
Estimated efficiency (% of production to input)	24	22	19	21	20	19

Statistics on electricity
Ukraine

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	182815	163682	164573	156037	159833	154141
Combustible fuels	83549	67523	72795	58173	61104	58201
Hydro	9318	6971	9304	10520	12007	7855
Nuclear	88389	87627	80950	85576	84398	83003
Other	1559	1561	1524	1768	2324	5082
Main activity	179888	161468	158806	152061	157175	151880
Combustible fuels	80644	65328	67136	54274	58493	56077
Hydro	9299	6954	9281	10516	12005	7855
Nuclear	88389	87627	80950	85576	84398	83003
Other	1556	1559	1439	1695	2279	4944
Own use in electricity, CHP and heat plants	14385	13032	12684	11131	12740	11608
Net production	168430	150650	151889	144906	147093	142533
Imports	89	2241	77	50	32	2238
Exports	8523	3591	3830	5226	6099	6283
Losses	19615	17442	16626	16787	16996	16434
Consumption	134981	126024	125257	122943	124030	122054
Energy industries own use	6594	7035	7817	5577	5377	5365
By industry and construction	54401	49963	49941	50235	51727	48592
By transport	8072	6807	6796	7044	6951	6603
By households and other cons.	65914	62219	60703	60087	59975	61494
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	55843	55904	57335	52764	51508	51444
Combustible fuels	35335	35335	36475	31492	29753	28535
Hydro	5851	5883	6172	6213	6243	6325
Nuclear	13835	13835	13835	13835	13835	13835
Other	822	851	853	1224	1677	2749
Main activity	52910	53145	53866	50499	49369	49273
Combustible fuels	32410	32584	33013	29265	27662	26464
Hydro	5847	5878	6167	6206	6238	6325
Nuclear	13835	13835	13835	13835	13835	13835
Other	818	848	851	1193	1634	2649
Combustible fuel input	Terajoules					
Hard Coal	855610	691875	739606	596334	634191	584784
Biogas	..	161	596	865	1565	1768
Gas-diesel oil	258	215	301	430	559	387
Fuel oil	2020	11029	24280	21210	6989	1899
Liquefied petroleum gas	..	..	47	47	47	24
Other oil products	1648	804	1005	925	4543	4273
Natural gas	204757	169205	157126	145990	178481	165157
Coke-oven gas	10037	6939	9809	14391	15911	14515
Blast furnace gas	23785	18013	25568	26744	28839	24685
Peat products	0	127	176	195	156	88
Others	16380	18328	1354	0	0	0
Total input	1114495	916695	959868	807131	871281	797580
Total production	300776	243083	262062	209423	219974	209524
Estimated efficiency (% of production to input)	27	27	27	26	25	26

Statistics on electricity
United Arab Emirates

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	116528	127366	129596	134553	135997	138454
Combustible fuels	116237	127075	129287	133761	134694	134674
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	291	291	309	792	1303	3780
Main activity	116528	127366	129596	134553	135997	138454
Combustible fuels	116237	127075	129287	133761	134694	134674
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	291	291	309	792	1303	3780
Own use in electricity, CHP and heat plants	4843	4429	2392	7487	4726	5726
Net production	111685	122937	127204	127066	131271	132728
Imports	248	234	1141	514	488	245
Exports	276	249	506	617	517	257
Losses	8363	9141	9697	11718	8436	7011
Consumption	101174	111076	*113929	115245	122836	125717
Energy industries own use	..	..	..	..	..	..
By industry and construction	11196	12973	*13983	15071	13850	14272
By transport	..	..	..	..	..	..
By households and other cons.	89978	98103	*99946	100174	108986	111445
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	28829	28745	28761	30371	*30934	*33042
Combustible fuels	28706	28622	28638	30048	*30349	*31287
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	123	123	123	323	585	1755
Main activity	28829	28745	28761	30371	*30934	*33042
Combustible fuels	28706	28622	28638	30048	*30349	*31287
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	123	123	123	323	585	1755
Combustible fuel input	Terajoules					
Gas-diesel oil	21887	23521	*23650	22747	24394	6401
Fuel oil	1899	2020	*2141	*2141	*2182	2133
Natural gas	*1366572	*1248672	1349892	1383323	1384793	1370949
Total input	*1390358	*1274213	1375683	1408211	1411369	1379484
Total production	418453	457470	465433	481540	484898	484827
Estimated efficiency (% of production to input)	30	36	34	34	34	35

Statistics on electricity
United Kingdom

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	338100	339571	339216	337934	332504	322844
Combustible fuels	229566	212379	211607	197741	189847	181702
Hydro	8771	9037	8329	8754	7942	7691
Nuclear	63748	70345	71726	70336	65064	56184
Other	36015	47810	47554	61103	69651	77267
Main activity	296460	290767	287608	282740	275427	261749
Combustible fuels	198432	178114	176225	161420	152229	140685
Hydro	7518	7646	6910	7051	6299	5946
Nuclear	63748	70345	71726	70336	65064	56184
Other	26762	34662	32747	43932	51836	58934
Own use in electricity, CHP and heat plants	16483	12124	15319	15207	15142	12505
Net production	321617	327447	323897	322727	317362	310339
Imports	23244	22961	20018	18167	21332	24556
Exports	2723	1855	2273	3407	2225	3385
Losses	27448	28607	26330	26835	25704	26732
Consumption	314691	314723	315310	310652	310765	304120
Energy industries own use	11753	11137	11170	10971	10206	8746
By industry and construction	93157	93045	93424	92340	93986	91732
By transport	4505	4516	4690	4833	4984	5456
By households and other cons.	205276	206025	206026	202508	201589	198187
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	96622	96395	98749	104824	108294	104847
Combustible fuels	63600	58316	56702	58430	59400	53350
Hydro	4474	4677	4733	4770	4773	4773
Nuclear	9937	9487	9261	9261	9261	9261
Other	18611	23915	28053	32363	34861	37464
Main activity	81780	78936	72969	78514	81559	77208
Combustible fuels	57085	51961	44364	45691	46055	39458
Hydro	4221	4357	4360	4361	4366	4365
Nuclear	9937	9487	9261	9261	9261	9261
Other	10537	13131	14984	19201	21877	24125
Combustible fuel input	Terajoules					
Hard Coal	980129	758859	317097	229993	174276	78203
Biogas	84381	91653	94754	95254	92784	91158
Gas-diesel oil	4816	4171	3827	4101	3728	3738
Refinery gas	11732	12128	12425	13053	9298	11138
Natural gas	784213	765476	1073072	1029713	990086	974329
Blast furnace gas	30624	26847	19347	18055	16907	17845
Fuelwood	*92732	*113420	*123758	*128801	*147143	*164335
Vegetal waste	*19731	*24940	*22644	*29478	*34875	*35505
Municipal waste	40538	53310	66242	70208	81302	90982
Industrial waste	8556	9348	16912	7732	7075	7227
Others	13204	13911	9756	8339	8256	6714
Total input	2070656	1874062	1759834	1634727	1565730	1481173
Total production	826438	764564	761785	711867	683449	654127
Estimated efficiency (% of production to input)	40	41	43	44	44	44

Statistics on electricity

United Rep. of Tanzania

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	6258	6772	7216	7250	7396	7865
Combustible fuels	3653	4649	4817	4861	4908	5298
Hydro	2590	2108	2366	2350	*2400	2477
Nuclear	..	..	..	..	..	..
Other	15	15	33	39	88	89
Main activity	6243	6757	7183	7211	7308	7776
Combustible fuels	3653	4649	4817	4861	4908	5298
Hydro	2590	2108	2366	2350	*2400	2477
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	74	355	124	135	41	60
Net production	6184	6417	7092	7115	7355	7805
Imports	59	71	102	106	118	113
Exports	..	..	..	..	..	..
Losses	1135	1120	1221	1159	1064	1162
Consumption	4991	5265	5388	5952	6460	6767
Energy industries own use	15	15	18	19	88	89
By industry and construction	1270	1362	1358	1525	1719	1686
By transport	..	..	..	..	..	..
By households and other cons.	3706	3888	4012	4408	4653	4992
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1119	1380	1394	1412	1607	1530
Combustible fuels	*546	800	808	829	1015	931
Hydro	562	567	567	562	567	574
Nuclear	..	..	..	..	..	..
Other	11	13	18	22	25	26
Main activity	1088	1347	1356	1358	1396	1318
Combustible fuels	*526	780	788	796	829	745
Hydro	562	567	567	562	567	574
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	5160	9804	14749	15609	15609	19299
Fuel oil	7676	9534	2262	768	283	320
Natural gas	28623	27590	25558	23505	22181	32842
Bagasse	1152	1152	1242	1297	1297	1296
Total input	42611	48080	43811	41178	39369	53758
Total production	13151	16736	17341	17500	17669	19073
Estimated efficiency (% of production to input)	31	35	40	42	45	35

Statistics on electricity
United States

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	4340371	4317159	4322038	4286429	4455439	4391761
Combustible fuels	2995556	2962870	2886040	2770054	2912041	2818743
Hydro	281527	271129	292113	325114	317004	310571
Nuclear	830584	830288	839918	838861	841329	843330
Other	232704	252872	303967	352399	385065	419116
Main activity	4166530	4139295	4141317	4100488	4262168	4192264
Combustible fuels	2835071	2802188	2725711	2608106	2746063	2650495
Hydro	280195	269675	290596	323458	315587	309332
Nuclear	830584	830288	839918	838861	841329	843330
Other	220680	237144	285092	330062	359190	389106
Own use in electricity, CHP and heat plants	216819	207940	202593	200426	218511	196187
Net production	4123552	4109219	4119445	4086003	4236927	4195573
Imports	66511	75770	72716	65685	58261	59052
Exports	13298	9100	6214	9371	13804	20008
Losses	255322	255322	234807	226114	211136	244112
Consumption	3921443	3920567	3951140	3916203	4070248	3990506
Energy industries own use	132489	139731	137199	160087	169372	160554
By industry and construction	821040	806248	796896	778435	772827	748851
By transport	7605	8872	10605	11089	12283	13838
By households and other cons.	2960309	2965716	3006440	2966591	3115765	3067264
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1074544	1072470	1086849	1100333	1119131	1127772
Combustible fuels	787407	771732	764787	762765	767009	758593
Hydro	102162	102239	102692	102703	102801	102649
Nuclear	98569	98672	99565	99629	99433	98119
Other	86406	99827	119805	135236	149888	168411
Main activity	1036351	1031496	1042991	1052995	1067931	1072930
Combustible fuels	758205	742417	735654	733659	737457	729097
Hydro	101856	101933	102335	102346	102517	102360
Nuclear	98569	98672	99565	99629	99433	98119
Other	77721	88474	105437	117361	128524	143354
Combustible fuel input	Terajoules					
Hard Coal	8409391	6977919	6528743	6008203	5511906	4657978
Brown Coal	8268422	7554207	6817768	6992253	6938984	5868905
Biogas	162387	159616	150566	151529	148717	141641
Gas-diesel oil	84452	72455	56158	60948	106759	86805
Fuel oil	95263	92031	69044	64365	112053	97470
Petroleum coke	124475	115050	125580	106612	109908	83524
Natural gas	9602281	11248873	11524237	10770702	12277185	13124962
Vegetal waste	*112040	*103991	*88394	*86064	*98706	*97059
Municipal waste	274254	271824	280711	270064	275832	268342
Black liquor	*133826	*124212	*105582	*102798	*117899	*115931
Others	246805	234338	177102	170121	191778	185267
Total input	27513596	26954515	25923885	24783660	25889727	24727886
Total production	10784002	10666332	10389744	9972194	10483349	10147476
Estimated efficiency (% of production to input)	39	40	40	40	40	41

Statistics on electricity

United States Virgin Is.

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*790	*799	*797	*611	*626	*672
Combustible fuels	*766	*766	*765	*589	*605	*647
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*23	*33	*33	*21	*22	*25
Main activity	*774	*780	*778	*597	*612	*655
Combustible fuels	*766	*766	*765	*589	*605	*647
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	7	14	14	8	8	8
Own use in electricity, CHP and heat plants	*89	*84	*84	*61	*62	*66
Net production	*701	*716	*714	*549	*565	*606
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*60	*60	*65	*50	*51	*51
Consumption	641	*656	*649	*499	*521	*555
Energy industries own use	..	..	..	..	..	..
By industry and construction	291	*298	*273	*210	*222	*236
By transport	..	..	..	..	..	..
By households and other cons.	350	*358	*376	*290	*299	*319
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	333	340	340	336	336	*336
Combustible fuels	316	316	316	316	316	*316
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*17	*24	*24	*20	*20	*20
Main activity	321	325	325	321	321	*321
Combustible fuels	316	316	316	316	316	*316
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	5	9	9	5	5	5
Combustible fuel input	Terajoules					
Total input	..	..	..	..	..	..
Total production	*2759	*2758	*2752	*2122	*2178	*2331
Estimated efficiency (% of production to input)	..	..	..	..	..	..

Statistics on electricity

Uruguay

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	13008	13731	13885	14363	14623	16090
Combustible fuels	2623	3351	2896	2802	2921	2806
Hydro	9649	8266	7842	7518	6557	8108
Nuclear	..	..	..	..	..	..
Other	736	2114	3146	4043	5146	5176
Main activity	11728	12126	12274	12713	12857	14388
Combustible fuels	1349	1756	1295	1167	1177	1138
Hydro	9649	8266	7842	7518	6557	8108
Nuclear	..	..	..	..	..	..
Other	730	2104	3137	4028	5123	5142
Own use in electricity, CHP and heat plants	361	385	393	350	431	436
Net production	12647	13345	13491	14014	14192	15654
Imports	0	2	25	3	14	0
Exports	1267	1321	779	1462	1195	3011
Losses	1252	1489	1340	1437	1557	1322
Consumption	10239	10648	11518	11162	11571	11439
Energy industries own use	107	111	116	44	117	118
By industry and construction	2906	3250	3530	3522	3702	3622
By transport	..	..	0	0	1	1
By households and other cons.	7226	7287	7872	7596	7752	7698
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	3713	3989	3913	4546	4912	4920
Combustible fuels	1690	1530	1075	1255	1615	1615
Hydro	1538	1538	1538	1538	1538	1538
Nuclear	..	..	..	..	..	..
Other	485	921	1301	1753	1759	1768
Main activity	3264	3527	3447	4066	4428	4429
Combustible fuels	1268	1098	643	823	1182	1182
Hydro	1538	1538	1538	1538	1538	1538
Nuclear	..	..	..	..	..	..
Other	458	891	1266	1705	1708	1709
Combustible fuel input	Terajoules					
Gas-diesel oil	2928	7534	3423	1634	2915	1290
Fuel oil	4452	1972	1220	570	1244	404
Natural gas	10	0	0	365	113	1106
Fuelwood	96	236	205	64	116	87
Bagasse	100	111	86	86	88	104
Vegetal waste	2605	2325	2496	2339	2826	1801
Black liquor	6774	9463	9670	10303	9942	9999
Total input	16965	21640	17099	15360	17245	14791
Total production	9443	12064	10426	10088	10515	10102
Estimated efficiency (% of production to input)	56	56	61	66	61	68

Statistics on electricity
Uzbekistan

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	55766	57414	58634	60323	62408	63021
Combustible fuels	49691	50589	51773	52393	56510	56544
Hydro	6075	6825	6860	7930	5897	6462
Nuclear	..	..	..	..	..	..
Other	..	0	0	1	0	16
Main activity	55766	57414	58634	60323	62408	63021
Combustible fuels	49691	50589	51773	52393	56510	56544
Hydro	6075	6825	6860	7930	5897	6462
Nuclear	..	..	..	..	..	..
Other	..	0	0	1	0	16
Own use in electricity, CHP and heat plants	758	780	797	820	848	845
Net production	55008	56634	57837	59503	61560	62176
Imports	6436	5520	5278	6945	2233	3379
Exports	7215	6810	6774	7585	2627	2067
Losses	*3205	*3315	*3395	*3524	*3746	3858
Consumption	45791	47350	48503	50350	53515	54175
Energy industries own use	..	..	..	..	..	..
By industry and construction	20606	21153	21397	22623	15422	17382
By transport	1194	1166	1166	1222	1475	2115
By households and other cons.	23991	25032	25940	26504	36619	34678
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	13037	13217	14104	14378	14196	15948
Combustible fuels	11165	11335	12222	12516	12276	14032
Hydro	1871	1880	1880	1858	1915	1908
Nuclear	..	..	..	..	..	..
Other	1	1	2	4	4	*9
Main activity	13037	13217	14104	14378	14196	15948
Combustible fuels	11165	11335	12222	12516	12276	14032
Hydro	1871	1880	1880	1858	1915	1908
Nuclear	..	..	..	..	..	..
Other	1	1	2	4	4	*9
Combustible fuel input	Terajoules					
Hard Coal	..	2135	2030	1552	2325	892
Brown Coal	50395	42459	43592	45679	46161	51683
Gas-diesel oil	47	41	30	39	39	61
Fuel oil	5280	2026	3253	3681	5329	8313
Natural gas	481504	488010	502212	484477	582301	581117
Total input	537226	534671	551117	535428	636154	642066
Total production	178888	182121	186384	188614	203437	203557
Estimated efficiency (% of production to input)	33	34	34	35	32	32

Statistics on electricity

Vanuatu

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	70	66	74	80	80	82
Combustible fuels	56	51	62	63	63	63
Hydro	7	7	5	7	8	8
Nuclear	..	..	..	..	..	..
Other	7	9	8	9	10	12
Main activity	70	66	74	80	80	82
Combustible fuels	56	51	62	63	63	63
Hydro	7	7	5	7	8	8
Nuclear	..	..	..	..	..	..
Other	7	9	8	9	10	12
Own use in electricity, CHP and heat plants	2	2	2	2	2	*2
Net production	68	64	72	77	78	80
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	6	5	5	5	6	6
Consumption	65	61	69	72	72	75
Energy industries own use	..	..	..	..	..	..
By industry and construction	24	21	23	28	27	29
By transport	..	..	..	..	..	..
By households and other cons.	41	40	46	44	45	46
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	30	30	32	33	31	33
Combustible fuels	25	25	26	26	24	25
Hydro	1	1	1	1	1	1
Nuclear	..	..	..	..	..	..
Other	4	4	5	6	6	6
Main activity	30	30	32	33	31	33
Combustible fuels	25	25	26	26	24	25
Hydro	1	1	1	1	1	1
Nuclear	..	..	..	..	..	..
Other	4	4	5	6	6	6
Combustible fuel input	Terajoules					
Gas-diesel oil	487	451	570	617	609	621
Other liquid biofuels	24	27	*19	0	5	8
Total input	511	479	589	617	614	629
Total production	201	183	222	228	228	227
Estimated efficiency (% of production to input)	39	38	38	37	37	36

Statistics on electricity
Venezuela (Bolivar. Rep.)

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	132471	128829	118122	103796	99737	85166
Combustible fuels	52009	53832	55068	43194	41510	35432
Hydro	80364	74902	62959	60507	58150	49637
Nuclear	..	..	..	..	..	..
Other	98	95	95	95	77	97
Main activity	130845	126698	116060	101811	97844	83521
Combustible fuels	50476	51794	53099	41302	39692	33880
Hydro	80364	74902	62959	60507	58150	49637
Nuclear	..	..	..	..	..	..
Other	5	2	2	2	2	4
Own use in electricity, CHP and heat plants	1696	1460	1482	1032	973	831
Net production	130775	127370	116640	102764	98764	84334
Imports	24	0	0	0	..	..
Exports	889	974	1107	1064	1023	870
Losses	42699	40381	33543	32237	30982	26452
Consumption	87467	89314	82985	70154	66531	57513
Energy industries own use	1847	1634	1427	1159	945	850
By industry and construction	25890	27283	23472	22219	20630	18280
By transport	0	0	0	0	..	..
By households and other cons.	59730	60397	58086	46776	44956	38382
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	31859	32150	33058	33013	33012	32620
Combustible fuels	16838	16869	17777	17732	17732	17487
Hydro	14880	15137	15137	15137	15137	15011
Nuclear	..	..	..	..	..	..
Other	142	144	144	144	143	122
Main activity	30467	31049	31957	31913	31913	31519
Combustible fuels	15534	15859	16767	16722	16722	16477
Hydro	14880	15137	15137	15137	15137	15011
Nuclear	..	..	..	..	..	..
Other	53	53	53	54	54	31
Combustible fuel input	Terajoules					
Gas-diesel oil	194618	220676	199262	191522	184040	157094
Fuel oil	25654	25048	22624	21735	20887	17828
Natural gas	254371	338034	326524	313808	301586	257432
Total input	474643	583758	548410	527065	506513	432354
Total production	187233	193796	198245	155498	149436	127556
Estimated efficiency (% of production to input)	39	33	36	30	30	30

Statistics on electricity
Viet Nam

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	140219	163494	181653	198499	213199	*227715
Combustible fuels	78439	105979	116244	109354	128576	*142200
Hydro	61480	57254	65188	88875	84205	85097
Nuclear	..	..	..	..	..	..
Other	*300	*261	221	270	418	418
Main activity	137649	159540	176739	194217	208917	*223433
Combustible fuels	75951	102107	111412	105154	124376	*138000
Hydro	61400	57174	65108	88795	84125	85017
Nuclear	..	..	..	..	..	..
Other	*298	*259	219	268	416	416
Own use in electricity, CHP and heat plants	5201	5745	5269	6906	6759	6991
Net production	135018	157749	176384	191593	206440	*220724
Imports	2356	2604	3313	2352	1722	2401
Exports	1650	1711	2215	1825	733	1311
Losses	*12509	*12541	*13732	13871	14728	14765
Consumption	128627	143683	159791	174653	192701	207049
Energy industries own use	..	..	..	..	..	..
By industry and construction	69524	77189	85686	95791	106136	111934
By transport	..	..	..	..	..	..
By households and other cons.	59103	66494	74105	78862	86565	95115
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*33761	*39133	*43416	*44334	*44815	55187
Combustible fuels	*18269	*22779	*25783	*25953	*26125	30690
Hydro	15377	16213	17461	18161	18341	18421
Nuclear	..	..	..	..	..	..
Other	115	141	172	220	349	6076
Main activity	*30633	*36005	*38025	*38851	*39332	49704
Combustible fuels	*15455	*19965	*20728	*20828	*21000	25565
Hydro	15069	15905	17131	17809	17989	18069
Nuclear	..	..	..	..	..	..
Other	109	135	166	214	343	6070
Combustible fuel input	Terajoules					
Hard Coal	400645	529856	614098	561954	684450	1386620
Gas-diesel oil	2365	1720	6751	3526	1548	6837
Fuel oil	4808	8726	8767	3798	1172	10868
Natural gas	347890	366899	366913	314848	288261	300319
Fuelwood	665	1193	44756	1319	2177	494
Total input	756373	908395	1041284	885444	977607	1705138
Total production	282380	381524	418478	393674	462874	*511920
Estimated efficiency (% of production to input)	37	42	40	44	47	30

Statistics on electricity

Wallis and Futuna Is.

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*19	*18	*20	*20	*20	*22
Combustible fuels	*18	*18	*20	*19	*20	*21
Hydro	0	0	0	0	0	0
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Main activity	*19	*18	*20	*20	*20	*22
Combustible fuels	*18	*18	*20	*19	*20	*21
Hydro	0	0	0	0	0	0
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Own use in electricity, CHP and heat plants	*2	*2	*3	*2	*1	*1
Net production	*16	*16	*18	*17	*19	*20
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	0	0	0	0	0	0
Consumption	*16	*16	*17	*17	*19	*20
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*16	*16	*17	*17	*19	*20
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*11	9	9	9	9	9
Combustible fuels	*11	9	9	9	9	9
Hydro	0	0	0	0	0	0
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Main activity	*11	9	9	9	9	9
Combustible fuels	*11	9	9	9	9	9
Hydro	0	0	0	0	0	0
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Combustible fuel input	Terajoules					
Gas-diesel oil	*179	*177	*187	*183	*188	*196
Total input	*179	*177	*187	*183	*188	*196
Total production	*65	*65	*71	*69	*71	*76
Estimated efficiency (% of production to input)	36	37	38	38	38	39

Statistics on electricity

Yemen

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	7655	5762	4798	4050	3487	3603
Combustible fuels	7646	5646	4643	3856	3003	3119
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	9	116	155	194	484	484
Main activity	7254	5364	4387	3613	2758	2838
Combustible fuels	7254	5364	4387	3613	2758	2838
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	1178	871	712	586	448	461
Net production	6477	4891	4086	3464	3040	3143
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	1924	1423	1164	959	732	753
Consumption	4553	2489	2377	2297	2203	2257
Energy industries own use	..	..	..	..	..	..
By industry and construction	161	119	97	80	61	63
By transport	..	..	..	..	..	..
By households and other cons.	4392	2370	2280	2217	2142	2194
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1524	1579	1769	*1769	*1769	*1769
Combustible fuels	1519	1519	1519	*1519	*1519	*1519
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	5	60	*250	*250	*250	250
Main activity	1402	1402	1402	*1402	*1402	*1402
Combustible fuels	1402	1402	1402	*1402	*1402	*1402
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	25155	18146	16469	15634	14443	15076
Fuel oil	24280	19190	16241	15417	14185	14732
Natural gas	37478	28770	20045	12027	4009	4009
Total input	86913	66106	52755	43077	32637	33817
Total production	27526	20326	16715	13883	10810	11228
Estimated efficiency (% of production to input)	32	31	32	32	33	33

Statistics on electricity

Zambia

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	14455	13440	11695	14185	16191	15041
Combustible fuels	413	405	670	1987	3524	3598
Hydro	14042	13035	11025	12198	12666	11441
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	1	1
Main activity	14455	13440	11695	14185	16191	15041
Combustible fuels	413	405	670	1987	3524	3598
Hydro	14042	13035	11025	12198	12666	11441
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	1	1
Own use in electricity, CHP and heat plants	331	0	325	344	408	111
Net production	14124	13440	11370	13841	15783	14930
Imports	13	785	2185	753	152	198
Exports	1256	1176	794	1063	1226	976
Losses	2162	1599	1903	1339	1811	*1811
Consumption	10719	11450	10858	12192	12898	12341
Energy industries own use	..	..	..	..	..	..
By industry and construction	6429	6860	6455	7025	7282	7060
By transport	31	33	28	32	33	31
By households and other cons.	4259	4557	4375	5135	5583	5250
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2452	2411	2827	2897	2898	2981
Combustible fuels	195	142	439	498	499	494
Hydro	2257	2269	2388	2398	2398	2399
Nuclear	..	..	..	..	..	..
Other	..	0	0	1	1	89
Main activity	2452	2411	2827	2897	2898	2981
Combustible fuels	195	142	439	498	499	494
Hydro	2257	2269	2388	2398	2398	2399
Nuclear	..	..	..	..	..	..
Other	..	0	0	1	1	89
Combustible fuel input	Terajoules					
Hard Coal	..	..	3904	15353	24485	20017
Gas-diesel oil	430	430	430	516	*5160	*8600
Fuel oil	2990	3272	2747	4808	*6747	*8484
Bagasse	*1278	*1332	*1367	*1367	*1367	*1367
Total input	4698	5034	8448	22043	37758	38468
Total production	1485	1459	2412	7153	12686	12953
Estimated efficiency (% of production to input)	32	29	29	32	34	34

Statistics on electricity
Zimbabwe

Item	2014	2015	2016	2017	2018	2019
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	9812	9522	7090	7544	9418	7792
Combustible fuels	4410	4583	4175	3575	4369	4285
Hydro	5402	4939	2915	3969	5049	3507
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	9783	9468	6812	7377	9212	7583
Combustible fuels	4381	4529	3897	3408	4163	4076
Hydro	5402	4939	2915	3969	5049	3507
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	184	6	171	143	175	171
Net production	9628	9516	6919	7401	9243	7620
Imports	1127	1147	2220	2569	1177	1612
Exports	1226	1248	369	351	161	504
Losses	1648	1653	1596	1729	1748	1491
Consumption	8238	7426	7276	7880	8506	7255
Energy industries own use	..	..	..	..	..	..
By industry and construction	3388	2524	2642	3359	3703	3158
By transport	..	..	..	..	..	..
By households and other cons.	4850	4902	4634	4521	4803	4097
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1992	1992	2015	2015	2315	*2346
Combustible fuels	1235	1235	1265	1265	1265	*1265
Hydro	757	757	750	750	1050	1081
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	1947	1947	1970	1970	2270	*2301
Combustible fuels	1190	1190	1220	1220	1220	*1220
Hydro	757	757	750	750	1050	1081
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Hard Coal	70325	74266	63954	55291	67555	66122
Gas-diesel oil	731	645	559	580	701	714
Bagasse	2074	1843	2117	2180	2687	2725
Total input	73130	76754	66630	58051	70944	69561
Total production	15874	16498	15029	12870	15729	15427
Estimated efficiency (% of production to input)	22	21	23	22	22	22

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