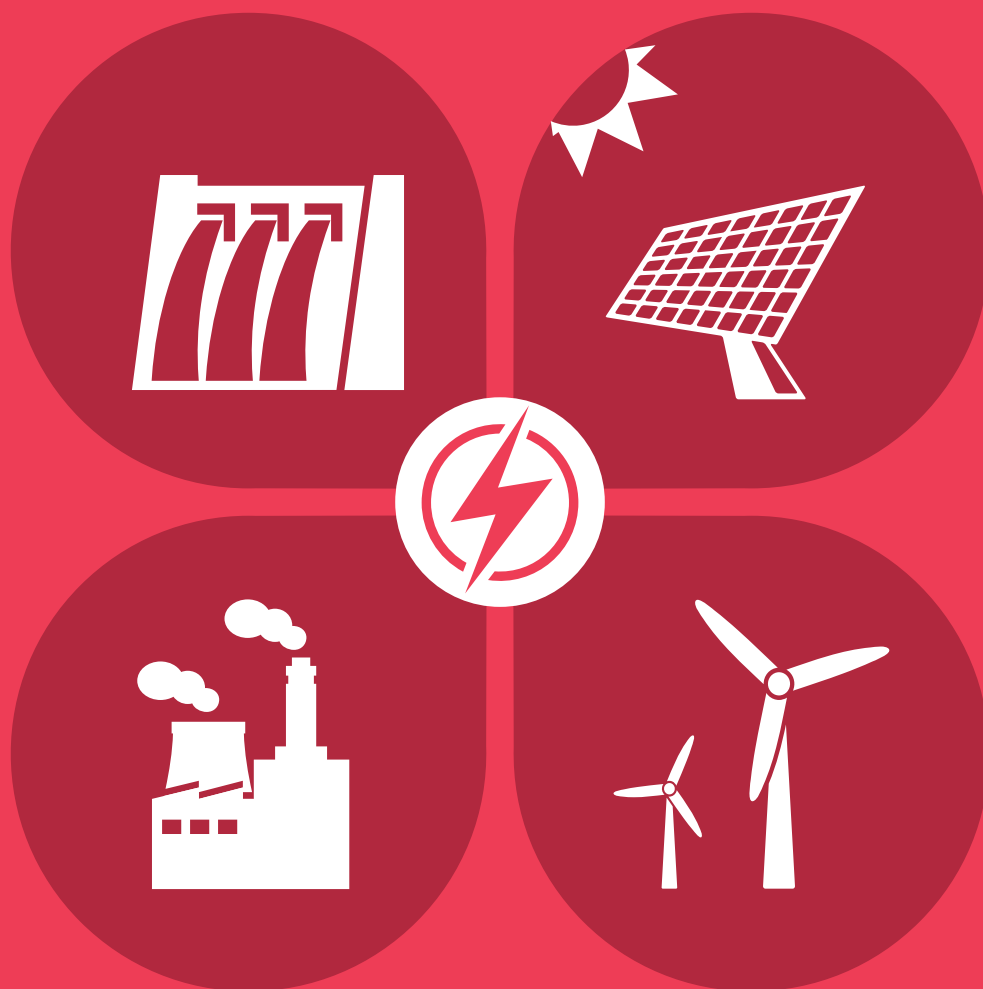


2016

Electricity Profiles



United Nations

Department of Economic and Social Affairs
Statistics Division

2016

Electricity Profiles



United Nations
New York, 2018

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Statistics compiled as of December 2018

INTRODUCTION

The *Electricity Profiles 2016* provides detailed information on production, trade and consumption of electricity, on net installed capacity and thermal power plant inputs and efficiency for 228 countries and areas on an internationally comparable basis, for the years 2011-2016. 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 fifth 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, Mr. Man Soni, Ms. Costanza Giovannelli, Ms. Peng Guo and Mr. Graham Osborn.

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

¹ Available at <http://unstats.un.org/unsd/energy/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 <http://unstats.un.org/unsd/energy/EProfiles>

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.

- 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.

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

CONCEPTS AND DEFINITIONS

- 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.

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

CONCEPTS AND DEFINITIONS

- 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.

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).

CONCEPTS AND DEFINITIONS

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	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1005	1022	*1022	*1049	*1034	*1076
Combustible fuels	176	144	*218	*154	*144	*150
Hydro	829	878	*804	*895	*890	*927
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	719	721	*746	*742	*729	*759
Combustible fuels	171	139	*213	*149	*139	*145
Hydro	548	582	*533	*593	*590	*614
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	50	55	*57	*58	*60	*70
Net production	955	967	*965	*991	*974	*1006
Imports	2732	3071	3615	3711	3779	4400
Exports	..	..	..	..	..	..
Losses	404	404	*490	*500	*600	600
Consumption	*2775	3265	*3322	*3767	*3888	*4366
Energy industries own use	..	..	..	..	..	..
By industry and construction	600	600	*800	*800	*900	*900
By transport	..	..	..	..	..	..
By households and other cons.	*2175	2665	*2522	*2967	*2988	*3466
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	431	431	*431	*431	519	*519
Combustible fuels	115	115	*115	*115	*135	*135
Hydro	316	316	*316	*316	384	*384
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	249	249	*249	*249	324	*324
Combustible fuels	60	60	*60	*60	*70	*70
Hydro	189	189	*189	*189	254	*254
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Hard Coal	1290	*903	*1419	*1290	*1264	*1290
Gas-diesel oil	860	860	*1075	*645	*645	*860
Fuel oil	*40	*40	*40	*40	*40	*40
Total input	2190	*1803	*2534	*1975	*1950	*2190
Total production	634	518	*786	*554	*519	*539
Estimated efficiency (% of production to input)	29	29	31	28	27	25

Statistics on electricity

Albania

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	4217	4725	6956	4724	5895	7136
Combustible fuels	59	..	..	..	..	..
Hydro	4158	4725	6956	4724	5895	7136
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	4217	4725	6956	4724	5895	7136
Combustible fuels	59	..	..	..	..	..
Hydro	4158	4725	6956	4724	5895	7136
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	59	0	0	0	29	0
Net production	4158	4725	6956	4724	5866	7136
Imports	3262	2538	2323	3250	2355	1827
Exports	232	0	0	183	956	1869
Losses	1076	1119	1953	1119	1250	1986
Consumption	6112	6144	7325	6672	6015	5237
Energy industries own use	455	384	433	149	118	141
By industry and construction	1053	1192	1388	1466	1245	1272
By transport	..	..	..	..	..	..
By households and other cons.	4604	4568	5505	5057	4652	3823
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1613	1767	1918	1865	1938	1940
Combustible fuels	123	123	123	123	123	*123
Hydro	1476	1629	1781	1726	1799	1801
Nuclear	..	..	..	..	..	..
Other	14	15	14	16	*16	*16
Main activity	1588	1742	1893	1840	1913	1915
Combustible fuels	98	98	98	98	98	*98
Hydro	1476	1629	1781	1726	1799	1801
Nuclear	..	..	..	..	..	..
Other	14	15	14	16	*16	*16
Combustible fuel input	Terajoules					
Refinery gas	0	0	0	0	0	0
Other oil products	429	0	0	0	..	..
Total input	429	0	0	0	0	0
Total production	213	..	..	..	..	..
Estimated efficiency (% of production to input)	50	..	..	..	..	..

Statistics on electricity
Algeria

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	51224	57397	59890	64242	68798	70839
Combustible fuels	50722	56775	59560	63988	68576	70661
Hydro	502	622	330	254	145	145
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	77	33
Main activity	48872	54086	56148	60500	64663	66075
Combustible fuels	48370	53464	55818	60246	64441	65897
Hydro	502	622	330	254	145	145
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	77	33
Own use in electricity, CHP and heat plants	4542	4753	4873	6549	6586	6807
Net production	46682	52644	55017	57693	62212	64032
Imports	657	936	295	686	610	257
Exports	799	985	384	877	641	507
Losses	9899	11068	11023	11003	11196	10682
Consumption	36639	41527	43908	46499	50985	53100
Energy industries own use	772	750	750	748	832	812
By industry and construction	13138	14961	15670	16020	17441	18574
By transport	696	783	796	867	974	1014
By households and other cons.	22033	25033	26692	28864	31738	32700
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	11391	12950	15098	*16199	17239	19006
Combustible fuels	11163	12722	14870	*15971	16961	18549
Hydro	228	228	228	228	228	228
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	50	229
Main activity	9339	9698	10784	*11885	12925	14692
Combustible fuels	9111	9470	10556	*11657	12647	14235
Hydro	228	228	228	228	228	228
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	50	229
Combustible fuel input	Terajoules					
Gas-diesel oil	13631	15093	15265	15695	18103	17544
Natural gas	536970	590449	573653	623247	701791	680994
Total input	550601	605542	588918	638942	719894	698538
Total production	182599	204390	214416	230357	246874	254380
Estimated efficiency (% of production to input)	33	34	36	36	34	36

Statistics on electricity

American Samoa

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	155	157	*156	157	169	*170
Combustible fuels	155	156	*155	156	168	*168
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	1	*1	*1	2	*2
Main activity	155	157	*156	157	169	*170
Combustible fuels	155	156	*155	156	168	*168
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	1	*1	*1	2	*2
Own use in electricity, CHP and heat plants	7	8	*7	10	6	*7
Net production	148	149	*149	147	163	*163
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	12	15	14	13	*14	*13
Consumption	136	134	136	135	*149	*150
Energy industries own use	..	..	..	..	..	..
By industry and construction	22	23	23	23	*26	*27
By transport	..	..	..	..	..	..
By households and other cons.	114	112	112	112	*123	*124
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	41	*42	*42	42	*45	*45
Combustible fuels	41	*41	*41	41	*42	*42
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	1	*1	1	3	*3
Main activity	41	*42	*42	42	*45	*45
Combustible fuels	41	*41	*41	41	*42	*42
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	1	*1	1	3	*3
Combustible fuel input	Terajoules					
Gas-diesel oil	*1445	*1449	*1449	*1453	*1565	*1570
Total input	*1445	*1449	*1449	*1453	*1565	*1570
Total production	558	560	*559	561	604	*605
Estimated efficiency (% of production to input)	39	39	39	39	39	39

Statistics on electricity

Andorra

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	91	88	115	127	99	99
Combustible fuels	12	12	13	13	14	14
Hydro	79	76	102	113	86	84
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	91	88	115	127	99	99
Combustible fuels	12	12	13	13	14	14
Hydro	79	76	102	113	86	84
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	91	88	115	127	99	99
Imports	466	505	467	439	471	485
Exports	..	..	3	..	0	0
Losses	75	74	71	67	68	67
Consumption	483	488	482	474	483	491
Energy industries own use	..	..	..	..	..	..
By industry and construction	9	9	10	8	8	8
By transport	..	..	..	..	..	..
By households and other cons.	474	480	473	467	475	483
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*32	50	*50	*50	*50	*50
Combustible fuels	*5	5	*5	*5	*5	*5
Hydro	*27	45	*45	*45	*45	*45
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*32	50	*50	*50	*50	*50
Combustible fuels	*5	5	*5	*5	*5	*5
Hydro	*27	45	*45	*45	*45	*45
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Municipal waste	*211	*211	*232	*241	*248	*255
Total input	*211	*211	*232	*241	*248	*255
Total production	44	42	46	48	50	51
Estimated efficiency (% of production to input)	21	20	20	20	20	20

Statistics on electricity

Angola

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	5651	6204	8216	9480	9765	10361
Combustible fuels	1644	2432	3449	4439	4572	4546
Hydro	4007	3772	4767	5041	5193	5815
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	5326	5847	7743	8934	9203	9765
Combustible fuels	1319	2075	2976	3893	4010	3950
Hydro	4007	3772	4767	5041	5193	5815
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	139	153	203	234	241	256
Net production	5512	6051	8013	9246	9524	10105
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	637	699	926	1068	1100	1167
Consumption	4875	5352	7087	8178	8424	8938
Energy industries own use	..	..	..	..	..	..
By industry and construction	1643	1804	2389	2757	2840	3013
By transport	..	..	..	..	..	..
By households and other cons.	3232	3548	4698	5421	5584	5925
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*1530	*1530	*1530	*2070	*2533	*2873
Combustible fuels	*770	*770	*770	*770	*1091	*1284
Hydro	760	760	*760	*1300	*1442	*1589
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	1400	1400	*1400	*1940	*2349	*2656
Combustible fuels	*640	*640	*640	*640	*907	*1067
Hydro	760	760	*760	*1300	*1442	*1589
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	18705	18576	28294	43000	48848	50783
Fuel oil	10827	5939	2788	3030	1697	2343
Total input	29532	24515	31082	46030	50545	53126
Total production	5918	8755	12416	15980	16459	16366
Estimated efficiency (% of production to input)	20	36	40	35	33	31

Statistics on electricity
Anguilla

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	95	90	89	90	94	103
Combustible fuels	95	90	89	90	94	103
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	95	90	89	90	94	103
Combustible fuels	95	90	89	90	94	103
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	3	3	3	3	3	3
Net production	92	87	86	87	92	100
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	9	8	9	9	10	9
Consumption	*84	*79	*77	*78	*81	*91
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*84	*79	*77	*78	*81	*91
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	28	33	33	33	33	33
Combustible fuels	28	33	33	33	33	33
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	28	33	33	33	33	33
Combustible fuels	28	33	33	33	33	33
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	860	813	796	821	860	*925
Total input	860	813	796	821	860	*925
Total production	343	322	319	322	339	371
Estimated efficiency (% of production to input)	40	40	40	39	39	40

Statistics on electricity

Antigua and Barbuda

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	334	330	*330	*336	*340	*344
Combustible fuels	329	330	*330	*336	*340	*344
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	5	..	..	..	..	..
Main activity	333	329	*329	*335	*339	*343
Combustible fuels	328	329	*329	*335	*339	*343
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	5	..	..	..	..	..
Own use in electricity, CHP and heat plants	6	10	*15	*7	*3	*4
Net production	328	320	*315	*329	*337	*340
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	56	76	76	*87	*87	*87
Consumption	240	247	*237	*242	*250	*253
Energy industries own use	..	..	..	..	..	..
By industry and construction	*8	*8	*8	*9	*10	*12
By transport	..	..	..	..	..	..
By households and other cons.	232	239	*229	*233	*240	*241
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	84	84	119	*119	*119	*119
Combustible fuels	84	84	119	*119	*119	*119
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	83	83	118	*118	*118	*118
Combustible fuels	83	83	118	*118	*118	*118
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	*2365	*2365	*2365	*2365	*2365	*2365
Fuel oil	*1374	*1414	*1414	*1414	*1454	*1495
Total input	*3739	*3779	*3779	*3779	*3819	*3860
Total production	1184	1188	*1188	*1210	*1224	*1238
Estimated efficiency (% of production to input)	32	31	31	32	32	32

Statistics on electricity

Argentina

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	129892	135207	140863	138576	145447	147220
Combustible fuels	91592	98719	100758	90850	99165	100573
Hydro	31901	29716	33422	41335	38529	37800
Nuclear	6371	6395	6207	5756	7139	*8285
Other	28	377	476	635	614	562
Main activity	114840	119978	126147	124360	131677	133513
Combustible fuels	76598	83548	86095	76671	85431	86895
Hydro	31843	29658	33369	41298	38493	37772
Nuclear	6371	6395	6207	5756	7139	*8285
Other	28	377	476	635	614	561
Own use in electricity, CHP and heat plants	4304	3919	4303	3642	3635	3540
Net production	125588	131288	136560	134934	141812	143680
Imports	10929	8116	8303	10028	9018	9851
Exports	1262	506	247	166	55	329
Losses	18701	18442	19992	17808	20319	20432
Consumption	116551	120569	124624	126989	130458	132770
Energy industries own use	561	719	497	723	817	*824
By industry and construction	50458	50535	52859	51397	50428	51447
By transport	675	616	594	588	605	546
By households and other cons.	64857	68699	70674	74281	78608	79953
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	33810	35023	39563	*35945	37593	*37430
Combustible fuels	22660	23807	28269	*24651	25541	*25314
Hydro	10045	10053	10074	10074	10063	10127
Nuclear	1018	1018	1018	1018	1763	1763
Other	*87	145	202	202	226	226
Main activity	29887	31008	35500	*31931	33947	*33816
Combustible fuels	18759	19815	24228	*20659	21917	*21722
Hydro	10025	10033	10054	10054	10043	10107
Nuclear	1018	1018	1018	1018	1763	1763
Other	*85	143	200	200	224	224
Combustible fuel input	Terajoules					
Hard Coal	30694	35805	26024	26559	26154	19460
Gas-diesel oil	78905	73229	95976	68069	83850	88623
Fuel oil	108151	117968	93243	114696	129199	112797
Refinery gas	1337	2129	2129	2277	3267	2277
Natural gas	626708	688255	624838	667685	677547	724712
Coke-oven gas	5897	2825	2428	435	435	427
Blast furnace gas	5350	5930	5568	5892	5398	4430
Fuelwood	10500	10655	9829	16528	17477	7563
Bagasse	877	3680	8842	*6777	*6294	*6499
Vegetal waste	18188	18830	3977	13571	12230	*10061
Others	95	1882	2029	1730	1619	0
Total input	886701	961187	874883	924218	963470	976849
Total production	329731	355388	362729	327060	356994	362063
Estimated efficiency (% of production to input)	37	37	41	35	37	37

Statistics on electricity

Armenia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	7433	8036	7710	7750	7799	7315
Combustible fuels	2390	3399	3173	3289	2801	2581
Hydro	2489	2311	2173	1992	2206	2350
Nuclear	2548	2322	2360	2465	2788	2381
Other	6	4	4	4	4	3
Main activity	7433	8036	7710	7750	7799	7315
Combustible fuels	2390	3399	3173	3289	2801	2581
Hydro	2489	2311	2173	1992	2206	2350
Nuclear	2548	2322	2360	2465	2788	2381
Other	6	4	4	4	4	3
Own use in electricity, CHP and heat plants	327	337	329	361	369	327
Net production	7106	7699	7381	7389	7430	6988
Imports	205	98	148	206	174	275
Exports	1533	1696	1313	1314	1424	1229
Losses	904	981	949	929	812	706
Consumption	5151	5120	5404	5353	5368	5328
Energy industries own use	..	..	..	..	..	..
By industry and construction	1083	1180	1209	1479	1577	1631
By transport	120	127	124	115	105	100
By households and other cons.	3948	3813	4071	3759	3686	3597
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	3509	4055	4095	4091	4088	4113
Combustible fuels	1906	2394	2394	2390	2390	2390
Hydro	1191	1249	1289	1289	1286	1311
Nuclear	408	408	408	408	408	408
Other	4	4	4	4	4	4
Main activity	3509	4055	4095	4091	4088	4113
Combustible fuels	1906	2394	2394	2390	2390	2390
Hydro	1191	1249	1289	1289	1286	1311
Nuclear	408	408	408	408	408	408
Other	4	4	4	4	4	4
Combustible fuel input	Terajoules					
Natural gas	*20829	*29622	*28760	*28988	22661	23235
Total input	*20829	*29622	*28760	*28988	22661	23235
Total production	8604	12236	11423	11840	10084	9292
Estimated efficiency (% of production to input)	41	41	40	41	44	40

Statistics on electricity

Aruba

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	931	915	*928	*917	*932	*947
Combustible fuels	818	778	*790	*778	*793	*808
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	113	136	*138	*138	*138	*138
Main activity	931	915	*928	*917	*932	*947
Combustible fuels	818	778	*790	*778	*793	*808
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	113	136	*138	*138	*138	*138
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	931	915	*928	*917	*932	*947
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	159	148	149	138	153	*158
Consumption	*772	*766	*779	*779	*778	*789
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*772	*766	*779	*779	*778	*789
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	320	320	288	288	288	288
Combustible fuels	290	290	258	258	258	258
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	30	30	30	30	30	30
Main activity	320	320	288	288	288	288
Combustible fuels	290	290	258	258	258	258
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	30	30	30	30	30	30
Combustible fuel input	Terajoules					
Gas-diesel oil	*667	*559	*559	*568	*581	*581
Fuel oil	*8888	*8363	*7595	*7716	*7918	*7716
Total input	*9555	*8922	*8154	*8284	*8499	*8297
Total production	2944	2801	*2843	*2802	*2856	*2910
Estimated efficiency (% of production to input)	31	31	35	34	34	35

Statistics on electricity
Australia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	253819	250931	249369	247451	251415	256563
Combustible fuels	229535	227552	219663	214767	221479	222837
Hydro	16807	14083	18270	18421	13445	15318
Nuclear	..	..	..	..	..	..
Other	7477	9296	11436	14263	16491	18408
Main activity	234143	231499	226356	223990	226896	232479
Combustible fuels	211246	210440	200120	195263	201872	204501
Hydro	16807	14083	18270	18421	13445	15318
Nuclear	..	..	..	..	..	..
Other	6090	6976	7966	10306	11579	12660
Own use in electricity, CHP and heat plants	13080	14351	13847	14830	12882	13301
Net production	240739	236580	235522	232621	238533	243262
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	16406	14327	12980	11019	12904	13562
Consumption	224241	222149	222335	221601	225631	229701
Energy industries own use	12004	12232	12155	13546	14144	17850
By industry and construction	81502	80016	79645	79483	76624	77291
By transport	3835	4071	4774	4770	5911	6284
By households and other cons.	126900	125830	125761	123802	128952	128276
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	63033	64840	65364	67233	67029	65559
Combustible fuels	50044	50377	50171	50704	49710	47786
Hydro	9464	9466	8713	8724	8724	8724
Nuclear	..	..	..	..	..	..
Other	3525	4997	6480	7805	8595	9049
Main activity	57166	58242	57199	58381	57815	56382
Combustible fuels	45571	46211	45261	45806	44762	42994
Hydro	9464	9466	8713	8724	8724	8724
Nuclear	..	..	..	..	..	..
Other	2131	2565	3225	3851	4329	4664
Combustible fuel input	Terajoules					
Hard Coal	735006	717055	696294	648712	636963	659756
Brown Coal	1190221	1198113	1024432	955774	1028036	1057550
Lignite briquettes	1176	1386	1029	861	672	461
Biogas	12486	13202	11743	14005	14520	14247
Gas-diesel oil	47128	28079	51987	37195	46569	46612
Fuel oil	5454	5414	7030	6262	7070	1818
Other oil products	3337	2211	3658	2894	3538	3095
Natural gas	468931	514586	517482	530826	553022	559114
Fuelwood	*1301	*1315	*1182	*1731	*3669	*4193
Bagasse	*11260	*11385	*10233	*14980	*16886	*19298
Others	3061	2883	0	0	0	0
Total input	2479361	2495628	2325070	2213240	2310945	2366145
Total production	826326	819187	790787	773161	797324	802213
Estimated efficiency (% of production to input)	33	33	34	35	35	34

Statistics on electricity

Austria

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	65812	72601	68313	65440	65299	68351
Combustible fuels	25908	22094	18759	15960	18915	19086
Hydro	37782	47696	45805	44836	40592	42919
Nuclear	..	..	..	..	..	..
Other	2122	2811	3749	4644	5792	6346
Main activity	56352	64030	60217	57739	57466	60469
Combustible fuels	17425	14072	11229	8835	11576	11742
Hydro	36816	47158	45253	44273	40113	42396
Nuclear	..	..	..	..	..	..
Other	2111	2800	3735	4631	5777	6331
Own use in electricity, CHP and heat plants	3247	3270	3010	3167	3378	3677
Net production	62565	69331	65303	62273	61921	64674
Imports	24972	23264	24960	26712	29369	26366
Exports	16777	20455	17689	17437	19311	19207
Losses	3307	3528	3541	3410	3467	3339
Consumption	67453	68612	69033	68138	68512	68494
Energy industries own use	7392	7900	7732	7832	7450	6642
By industry and construction	26401	26549	26466	25196	25274	25693
By transport	3132	3066	3109	3066	3114	3129
By households and other cons.	30528	31097	31726	32044	32674	33030
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	22556	22917	23591	24048	24443	24789
Combustible fuels	8178	8161	8170	7859	7665	7273
Hydro	12980	13076	13149	13293	13351	13689
Nuclear	..	..	..	..	..	..
Other	1398	1680	2272	2896	3427	3827
Main activity	20182	20568	21212	21792	22205	22531
Combustible fuels	6339	6347	6326	6136	5964	5561
Hydro	12445	12541	12614	12760	12814	13143
Nuclear	..	..	..	..	..	..
Other	1398	1680	2272	2896	3427	3827
Combustible fuel input	Terajoules					
Hard Coal	48302	39448	38085	27053	27341	18935
Biogas	5942	6963	6446	10321	10563	10561
Fuel oil	11433	8686	8484	6141	8242	6585
Refinery gas	891	1089	941	1089	1337	6584
Natural gas	101925	85531	64316	53666	71989	78144
Coke-oven gas	2497	2592	2017	2703	4331	3369
Blast furnace gas	14979	14233	16294	16187	15536	14568
Fuelwood	*44749	*45446	*41971	*38545	*40053	*35754
Municipal waste	13429	13309	13552	16518	17283	16444
Industrial waste	5766	6601	6472	5307	5726	8506
Others	*4382	*7136	*4667	*4565	*4732	*2705
Total input	254295	231034	203245	182095	207132	202155
Total production	93269	79538	67532	57456	68094	68710
Estimated efficiency (% of production to input)	37	34	33	32	33	34

Statistics on electricity
Azerbaijan

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	20294	22988	23354	24728	24688	24953
Combustible fuels	17618	21167	21863	23423	23041	22936
Hydro	2676	1821	1489	1300	1637	1959
Nuclear	..	..	..	..	..	..
Other	..	..	2	5	10	58
Main activity	19993	21358	21556	22706	22551	22699
Combustible fuels	17317	19537	20065	21401	20904	20699
Hydro	2676	1821	1489	1300	1637	1959
Nuclear	..	..	..	..	..	..
Other	..	..	2	5	10	41
Own use in electricity, CHP and heat plants	947	977	961	998	982	918
Net production	19347	22011	22393	23730	23706	24035
Imports	128	141	127	124	108	114
Exports	805	680	495	489	265	1096
Losses	3973	3368	3281	3363	2869	2350
Consumption	14567	18023	18661	19914	20573	20660
Energy industries own use	1300	2629	2679	3007	2954	3042
By industry and construction	2130	3027	2996	3161	3163	3517
By transport	545	523	531	536	482	428
By households and other cons.	10592	11844	12455	13210	13974	13673
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	6350	6420	7352	7359	7806	7910
Combustible fuels	5352	5397	6264	6270	6690	6764
Hydro	998	1023	1084	1078	1103	1105
Nuclear	..	..	..	..	..	..
Other	..	..	4	11	13	41
Main activity	6250	6294	7116	7117	7144	7166
Combustible fuels	5252	5271	6028	6028	6028	6028
Hydro	998	1023	1084	1078	1103	1105
Nuclear	..	..	..	..	..	..
Other	..	..	4	11	13	33
Combustible fuel input	Terajoules					
Gas-diesel oil	129	215	172	215	215	430
Fuel oil	3313	3959	0	162	15716	24846
Natural gas	180185	203578	206854	214193	212772	196866
Municipal waste	..	..	2104	2628	3037	2772
Total input	183627	207752	209130	217198	231740	224914
Total production	63425	76201	78707	84323	82948	82570
Estimated efficiency (% of production to input)	35	37	38	39	36	37

Statistics on electricity

Bahamas

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	2054	1900	1885	1922	1998	1966
Combustible fuels	2054	1900	1885	1922	1998	1966
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	1981	1827	1811	1848	1922	1890
Combustible fuels	1981	1827	1811	1848	1922	1890
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	*69	*70	74	*74	*76	*76
Net production	1985	1830	1811	1848	1922	1890
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*59	*52	*43	*34	*11	*10
Consumption	1926	1778	1768	1814	1930	1965
Energy industries own use	..	..	..	..	..	..
By industry and construction	1130	1047	1049	1108	1167	1075
By transport	..	..	..	..	..	..
By households and other cons.	796	731	719	706	763	890
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	591	591	591	576	576	576
Combustible fuels	591	591	591	576	576	576
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	536	536	536	537	537	537
Combustible fuels	536	536	536	537	537	537
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	17329	15738	*15394	*16598	*17243	*16942
Liquefied petroleum gas	19	47	..	..	..	..
Total input	17348	15785	*15394	*16598	*17243	*16942
Total production	7394	6840	6786	6919	7193	7078
Estimated efficiency (% of production to input)	43	43	44	42	42	42

Statistics on electricity
Bahrain

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	24338	24770	25909	27253	29996	29856
Combustible fuels	24338	24770	25909	27253	29987	29846
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	9	10
Main activity	13706	14260	14743	16264	18727	18587
Combustible fuels	13706	14260	14743	16264	18718	18577
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	9	10
Own use in electricity, CHP and heat plants	120	117	62	3	1551	0
Net production	24218	24653	25847	27250	28445	29856
Imports	227	35	70	240	219	276
Exports	107	190	53	237	198	293
Losses	1563	1417	1351	1073	625	618
Consumption	22775	23315	24513	26186	27815	*27752
Energy industries own use	..	..	..	..	..	..
By industry and construction	12333	12410	13180	13633	13990	*14016
By transport	..	..	..	..	..	..
By households and other cons.	10442	10905	11333	12553	13825	13736
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*5868	*5868	*5868	*6050	6978	6977
Combustible fuels	*5868	*5868	*5868	*6050	6972	6971
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	6	6
Main activity	*2868	*2868	*2868	*3000	3928	3927
Combustible fuels	*2868	*2868	*2868	*3000	3922	3921
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	6	6
Combustible fuel input	Terajoules					
Natural gas	363675	372448	389899	406937	404675	*401627
Total input	363675	372448	389899	406937	404675	*401627
Total production	87617	89172	93272	98111	107953	107446
Estimated efficiency (% of production to input)	24	24	24	24	27	27

Statistics on electricity
Bangladesh

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	44153	48562	53120	55845	59011	64327
Combustible fuels	43281	47785	52086	55108	58287	63591
Hydro	872	777	894	588	566	566
Nuclear	..	..	..	..	..	..
Other	..	..	140	149	158	170
Main activity	31202	35354	38757	40427	42902	47063
Combustible fuels	30330	34577	37723	39690	42178	46327
Hydro	872	777	894	588	566	566
Nuclear	..	..	..	..	..	..
Other	..	..	140	149	158	170
Own use in electricity, CHP and heat plants	2481	2728	2984	3138	3315	3614
Net production	41672	45834	50136	52707	55696	60713
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	4527	5790	7032	6404	6519	6858
Consumption	37113	40242	42881	45965	48570	52945
Energy industries own use	..	..	..	..	..	..
By industry and construction	21251	22215	24056	25585	27035	29470
By transport	..	..	..	..	..	..
By households and other cons.	15862	18027	18825	20380	21535	23475
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	6639	8100	8562	9346	11039	11750
Combustible fuels	6409	7870	8307	9091	10784	11495
Hydro	230	230	*230	*230	*230	230
Nuclear	..	..	..	..	..	..
Other	..	..	*25	*25	*25	*25
Main activity	4728	5725	6240	7044	8662	9471
Combustible fuels	4498	5495	5985	6789	8407	9216
Hydro	230	230	*230	*230	*230	230
Nuclear	..	..	..	..	..	..
Other	..	..	*25	*25	*25	*25
Combustible fuel input	Terajoules					
Hard Coal	8580	9396	12388	11300	10944	11321
Gas-diesel oil	9718	9718	8901	15781	20210	21457
Fuel oil	21533	34986	42582	48036	36118	28361
Natural gas	434148	470590	509963	530247	557675	546014
Total input	473979	524690	573834	605364	624947	607153
Total production	155812	172026	187510	198389	209833	228928
Estimated efficiency (% of production to input)	33	33	33	33	34	38

Statistics on electricity

Barbados

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1049	1129	1016	1021	1029	1045
Combustible fuels	1049	1129	1016	1021	1029	1045
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	1044	1125	1013	1007	1012	1028
Combustible fuels	1044	1125	1013	1007	1012	1028
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	41	37	58	58	76	77
Net production	1008	1091	958	962	954	969
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	68	43	43	48	20	21
Consumption	940	1048	915	*914	*933	948
Energy industries own use	..	..	..	..	..	..
By industry and construction	86	76	73	79	80	81
By transport	..	..	..	..	..	..
By households and other cons.	854	972	842	*836	*853	867
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	242	241	241	249	249	249
Combustible fuels	242	241	241	249	249	249
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	239	239	239	239	239	239
Combustible fuels	239	239	239	239	239	239
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	2034	1777	1689	773	248	252
Fuel oil	8538	8682	8632	7413	8060	8191
Other kerosene	363	271	*336	*274	0	0
Natural gas	115	152	255	0	179	181
Bagasse	43	38	29	23	23	23
Total input	11092	10920	10941	8482	8509	8648
Total production	3776	4063	3657	3674	3705	3764
Estimated efficiency (% of production to input)	34	37	33	43	44	44

Statistics on electricity

Belarus

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	32200	30799	31507	34735	34082	33566
Combustible fuels	32157	30723	31361	34602	33941	33321
Hydro	42	70	138	121	107	142
Nuclear	..	..	..	..	..	..
Other	1	6	8	12	34	103
Main activity	29604	27749	28531	31663	30676	30132
Combustible fuels	29566	27681	28394	31541	30554	29912
Hydro	38	64	131	114	101	128
Nuclear	..	..	..	..	..	..
Other	..	4	6	8	21	92
Own use in electricity, CHP and heat plants	2220	2203	2189	2217	2100	2082
Net production	29980	28596	29318	32518	31982	31484
Imports	9289	10398	9382	7806	6104	6319
Exports	3704	2797	3012	4488	3482	3298
Losses	3412	3406	3342	3187	2916	2876
Consumption	32153	32791	32346	32649	31688	31629
Energy industries own use	2257	2413	2411	2429	2400	2253
By industry and construction	13603	13353	12719	12899	12093	11956
By transport	1468	1402	1304	1280	1227	1181
By households and other cons.	14825	15623	15912	16041	15968	16239
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	8528	9006	9214	10221	9794	10009
Combustible fuels	8509	8970	9178	10181	9750	9826
Hydro	17	34	34	34	34	74
Nuclear	..	..	..	..	..	..
Other	2	2	2	6	10	109
Main activity	7952	8369	8508	9431	8989	9153
Combustible fuels	7937	8340	8479	9398	8953	8985
Hydro	14	28	28	28	28	68
Nuclear	..	..	..	..	..	..
Other	1	1	1	5	8	100
Combustible fuel input	Terajoules					
Hard Coal	0	0	0	0	0	0
Peat	875	885	1081	1291	1222	1210
Biogas	116	145	337	363	390	370
Gas-diesel oil	0	0	0	0	0	0
Fuel oil	3111	8888	1293	2868	3394	5737
Refinery gas	1832	2277	2030	2228	2030	1436
Natural gas	448015	426772	441450	451493	427730	420232
Fuelwood	3088	4220	4832	5399	5965	6943
Industrial waste	726	674	686	880	993	617
Peat products	224	342	371	332	371	400
Others	0	0	0	0	0	0
Total input	457987	444203	452079	464853	442094	436944
Total production	115765	110603	112900	124567	122188	119956
Estimated efficiency (% of production to input)	25	25	25	27	28	27

Statistics on electricity

Belgium

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	90241	82923	83488	72672	69849	85520
Combustible fuels	36969	35843	32408	29610	33249	31474
Hydro	1423	1659	1704	1462	1418	1489
Nuclear	48234	40295	42644	33703	26103	43523
Other	3615	5126	6732	7897	9079	9034
Main activity	83367	74427	74363	62875	59796	75062
Combustible fuels	31408	29740	26359	23114	26720	24627
Hydro	1423	1659	1704	1462	1418	1489
Nuclear	48234	40295	42644	33703	26103	43523
Other	2302	2733	3656	4596	5555	5423
Own use in electricity, CHP and heat plants	3582	3140	3208	2723	2426	3278
Net production	86659	79783	80280	69949	67423	82242
Imports	13189	16848	17243	21791	23714	14648
Exports	10652	6912	7603	4188	2715	8465
Losses	4154	4131	4007	3785	3816	3850
Consumption	85523	86137	86211	84133	84599	84698
Energy industries own use	4931	4424	3182	2980	2891	2850
By industry and construction	37261	37490	37787	37786	37990	37942
By transport	1631	1581	1686	1569	1585	1631
By households and other cons.	41700	42642	43556	41798	42133	42275
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	20098	20773	20972	20934	21157	21554
Combustible fuels	10285	9468	8910	8601	8520	8542
Hydro	1426	1427	1429	1431	1422	1425
Nuclear	5927	5927	5927	5927	5913	5913
Other	2460	3951	4706	4975	5302	5674
Main activity	17553	16904	16696	16503	16709	16889
Combustible fuels	9128	8182	7559	7202	7199	7182
Hydro	1426	1427	1429	1431	1422	1425
Nuclear	5927	5927	5927	5927	5913	5913
Other	1072	1368	1781	1943	2175	2369
Combustible fuel input	Terajoules					
Hard Coal	34444	32825	28423	21770	21513	3561
Biogas	3666	4254	4593	5201	5608	5633
Refinery gas	1436	2525	446	1139	1139	1188
Natural gas	187904	186532	163294	148598	169635	168133
Coke-oven gas	677	168	456	322	132	98
Blast furnace gas	15628	16176	16560	16739	16233	17756
Fuelwood	*29689	*34228	*31337	*23516	*31708	*31216
Municipal waste	37361	28588	28188	29535	30347	31045
Industrial waste	7478	8651	5581	6121	6221	6205
Other recovered gases	988	1245	1238	1479	1224	1258
Others	2822	2061	1313	866	1103	410
Total input	322092	317253	281428	255285	284862	266503
Total production	133088	129035	116669	106596	119696	113306
Estimated efficiency (% of production to input)	41	41	41	42	42	43

Statistics on electricity

Belize

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*388	*424	*371	*404	*417	*414
Combustible fuels	*144	*215	*164	*199	*228	*227
Hydro	*244	*208	*207	*205	*189	*187
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*322	*352	*308	*335	*346	*343
Combustible fuels	*78	*143	*101	*130	*157	*156
Hydro	*244	*208	*207	*205	*189	*187
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	*13	*14	*14	*14	*14	*14
Net production	*375	*410	*357	*390	*403	*400
Imports	171	172	234	233	255	253
Exports	..	..	..	..	..	..
Losses	51	56	66	65	69	68
Consumption	495	526	536	558	589	585
Energy industries own use	..	..	..	..	..	..
By industry and construction	117	123	130	137	137	136
By transport	..	..	..	..	..	..
By households and other cons.	377	403	406	422	452	449
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	144	144	143	154	154	*154
Combustible fuels	91	91	88	99	99	*99
Hydro	53	53	55	55	55	*55
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	118	118	120	120	120	*120
Combustible fuels	65	65	66	66	66	*66
Hydro	53	53	55	55	55	*55
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Crude oil	14	17	17	15	15	15
Gas-diesel oil	85	86	207	76	82	81
Fuel oil	*147	*162	*174	*174	*176	*175
Natural gas	42	56	68	40	64	63
Bagasse	*1257	*1137	*1198	*1818	*2474	*2455
Total input	*1546	*1458	*1664	*2123	*2811	*2789
Total production	*518	*775	*590	*717	*822	*816
Estimated efficiency (% of production to input)	34	53	35	34	29	29

Statistics on electricity

Benin

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	101	48	92	239	342	355
Combustible fuels	101	48	92	239	323	335
Hydro	..	..	..	..	14	15
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	5	5
Main activity	57	28	73	127	230	239
Combustible fuels	57	28	73	127	211	219
Hydro	..	..	..	..	14	15
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	5	5
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	101	48	92	239	342	355
Imports	983	1069	1077	939	1046	1088
Exports	..	..	..	..	..	..
Losses	204	212	229	232	269	280
Consumption	838	872	942	953	1105	1149
Energy industries own use	..	..	..	..	..	..
By industry and construction	128	139	163	174	280	291
By transport	..	..	..	..	..	..
By households and other cons.	710	733	779	779	825	858
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	101	63	209	*246	*383	*383
Combustible fuels	99	61	207	*244	*312	*312
Hydro	*1	*1	*1	*1	*66	*66
Nuclear	..	..	..	..	..	..
Other	1	*1	*1	*1	*5	*5
Main activity	93	55	201	*201	*338	*338
Combustible fuels	91	53	199	*199	*267	*267
Hydro	*1	*1	*1	*1	*66	*66
Nuclear	..	..	..	..	..	..
Other	1	*1	*1	*1	*5	*5
Combustible fuel input	Terajoules					
Gas-diesel oil	989	430	860	2322	3096	3225
Total input	989	430	860	2322	3096	3225
Total production	364	173	331	860	1163	1206
Estimated efficiency (% of production to input)	37	40	39	37	38	37

Statistics on electricity

Bermuda

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	729	700	677	661	674	665
Combustible fuels	729	700	677	661	674	665
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	717	688	665	649	662	653
Combustible fuels	717	688	665	649	662	653
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	45	48	45	38	40	35
Net production	684	652	632	623	634	630
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*48	*46	*45	*44	*44	*44
Consumption	636	606	586	577	591	586
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	636	606	586	577	591	586
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	169	171	*171	*171	*171	*171
Combustible fuels	169	171	*171	*171	*171	*171
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	165	167	*167	*167	*167	*167
Combustible fuels	165	167	*167	*167	*167	*167
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	950	*907	*820	*1511	*769	*860
Fuel oil	*4363	*4977	*4977	*3838	*3838	*3628
Municipal waste	*560	*565	*565	*605	*605	*605
Total input	*5874	*6450	*6363	*5954	*5212	*5093
Total production	2623	2521	2438	2379	2427	2395
Estimated efficiency (% of production to input)	45	39	38	40	47	47

Statistics on electricity

Bhutan

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	7068	6827	7550	7164	7747	7954
Combustible fuels	0	0	1	0	0	0
Hydro	7067	6827	7550	7164	7747	7953
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	1
Main activity	7068	6827	7550	7164	7747	7954
Combustible fuels	0	0	1	0	0	0
Hydro	7067	6827	7550	7164	7747	7953
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	1
Own use in electricity, CHP and heat plants	106	3	0	0	0	0
Net production	6962	6824	7550	7164	7747	7954
Imports	20	37	37	159	125	84
Exports	5268	4924	5625	5147	5721	5763
Losses	23	84	83	81	67	*266
Consumption	1638	1770	1841	2004	2057	2009
Energy industries own use	..	..	..	..	..	..
By industry and construction	1365	1462	1519	1661	1636	1548
By transport	..	..	..	..	..	..
By households and other cons.	273	307	322	343	421	460
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1505	1497	1499	1499	1622	1624
Combustible fuels	17	9	11	11	8	9
Hydro	1488	1488	1488	1488	1614	1614
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	1
Main activity	1505	1497	1499	1499	1622	1624
Combustible fuels	17	9	11	11	8	9
Hydro	1488	1488	1488	1488	1614	1614
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	1
Combustible fuel input	Terajoules					
Gas-diesel oil	*3	*7	*8	*138	*5	1
Total input	*3	*7	*8	*138	*5	1
Total production	1	1	2	0	0	0
Estimated efficiency (% of production to input)	33	10	23	0	1	0

Statistics on electricity
Bolivia (Plur. State of)

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	7220	7661	8064	8561	9123	9409
Combustible fuels	4870	5306	5525	6296	6637	7643
Hydro	2347	2352	2535	2251	2463	1720
Nuclear	..	..	..	..	..	..
Other	3	3	4	14	23	46
Main activity	7098	7538	7871	8369	8922	9110
Combustible fuels	4751	5186	5335	6110	6447	7355
Hydro	2347	2352	2535	2251	2463	1720
Nuclear	..	..	..	..	..	..
Other	..	..	1	8	12	35
Own use in electricity, CHP and heat plants	140	159	191	192	208	120
Net production	7080	7502	7873	8369	8915	9289
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	796	869	728	805	815	1166
Consumption	6329	6613	6962	7392	7875	8201
Energy industries own use	..	..	..	..	..	..
By industry and construction	1734	1790	1882	2016	2112	2134
By transport	..	..	..	..	..	..
By households and other cons.	4595	4823	5080	5376	5763	6067
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1684	1882	*1867	*2165	*2424	*2455
Combustible fuels	1188	1387	*1370	*1702	*1913	*1920
Hydro	494	494	*494	*455	*495	*495
Nuclear	..	..	..	..	..	..
Other	*2	*2	*3	8	16	40
Main activity	1563	1746	*1729	*2000	*2237	*2267
Combustible fuels	1096	1279	*1261	*1566	*1760	*1766
Hydro	467	467	*467	*431	*469	*469
Nuclear	..	..	..	..	..	..
Other	..	..	*1	3	8	32
Combustible fuel input	Terajoules					
Gas-diesel oil	1462	1978	1892	2236	2451	2451
Natural gas	60161	62116	60107	68418	70829	86446
Vegetal waste	*2869	*2880	*1339	*4470	*4553	*6904
Total input	64492	66974	63338	75124	77833	95801
Total production	17532	19102	19890	22666	23893	27515
Estimated efficiency (% of production to input)	27	29	31	30	31	29

Statistics on electricity

Bonaire, St Eustatius, Saba

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	..	114	116	120	127	133
Combustible fuels	..	81	80	79	87	97
Hydro
Nuclear
Other	..	33	37	41	40	36
Main activity	..	114	116	120	127	133
Combustible fuels	..	81	80	79	87	97
Hydro
Nuclear
Other	..	33	37	41	40	36
Own use in electricity, CHP and heat plants	..	11	12	11	11	12
Net production	..	102	105	109	116	121
Imports
Exports
Losses	..	*19	*20	*21	*20	*20
Consumption	..	*83	*85	*88	*96	*101
Energy industries own use
By industry and construction	..	*48	*50	*50	*51	*53
By transport
By households and other cons.	..	*35	*36	*38	*45	*48
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	..	*27	*27	*27	*27	*27
Combustible fuels	..	*16	*16	*16	*16	*16
Hydro
Nuclear
Other	..	11	11	11	11	11
Main activity	..	*27	*27	*27	*27	*27
Combustible fuels	..	*16	*16	*16	*16	*16
Hydro
Nuclear
Other	..	11	11	11	11	11
Combustible fuel input	Terajoules					
Fuel oil	..	*982	*1042	*1042	*1050	*1050
Total input	..	*982	*1042	*1042	*1050	*1050
Total production	..	292	287	284	312	350
Estimated efficiency (% of production to input)	..	30	27	27	30	33

Statistics on electricity
Bosnia and Herzegovina

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	15280	14082	17451	16160	15629	17767
Combustible fuels	10893	9867	10215	10225	10078	12102
Hydro	4387	4215	7236	5935	5551	5641
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	24
Main activity	14955	13739	17082	15803	15204	17373
Combustible fuels	10568	9524	9846	9868	9653	11708
Hydro	4387	4215	7236	5935	5551	5641
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	24
Own use in electricity, CHP and heat plants	1053	1047	998	988	985	1158
Net production	14227	13035	16453	15172	14644	16609
Imports	4171	4481	3167	3162	3872	3084
Exports	5660	4525	6862	5998	6007	6841
Losses	1549	1496	1448	1322	1394	..
Consumption	11189	11495	11310	11014	11115	11494
Energy industries own use	401	398	377	427	440	406
By industry and construction	4215	4383	4149	3910	3999	4079
By transport	139	107	84	80	91	73
By households and other cons.	6434	6607	6700	6597	6585	6936
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*4304	*4304	*4304	4135	*4304	4364
Combustible fuels	*2187	*2187	*2187	2086	*2187	2200
Hydro	*2117	*2117	*2117	2049	*2117	2155
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	9
Main activity	*4074	*4074	*4074	3905	*4074	4134
Combustible fuels	*1957	*1957	*1957	1856	*1957	1970
Hydro	*2117	*2117	*2117	2049	*2117	2155
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	9
Combustible fuel input	Terajoules					
Brown Coal	155858	145338	139422	116603	106377	137220
Fuel oil	364	283	485	485	566	606
Natural gas	681	719	530	416	460	307
Fuelwood	..	..	..	0	0	0
Total input	156902	146340	140437	117503	107403	138133
Total production	39215	35521	36774	36810	36281	43567
Estimated efficiency (% of production to input)	25	24	26	31	34	32

Statistics on electricity
Botswana

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	437	251	761	2364	*2967	2688
Combustible fuels	437	250	760	2363	*2966	2686
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	1	1	1	1	2
Main activity	437	251	761	2364	*2967	2688
Combustible fuels	437	250	760	2363	*2966	2686
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	1	1	1	1	2
Own use in electricity, CHP and heat plants	66	31	92	291	*410	307
Net production	371	220	669	2073	*2557	2381
Imports	3180	3371	2981	1684	1468	1650
Exports	..	..	..	..	..	..
Losses	434	393	340	255	535	564
Consumption	3118	3198	3310	3449	3495	3479
Energy industries own use	..	..	..	..	..	..
By industry and construction	1117	1086	1128	1463	1462	1382
By transport	..	..	..	..	..	..
By households and other cons.	2001	2112	2183	1986	2033	2097
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	152	153	753	621	621	621
Combustible fuels	152	152	752	620	620	620
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	1	1	1	1	1
Main activity	132	133	733	601	601	601
Combustible fuels	132	132	732	600	600	600
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	1	1	1	1	1
Combustible fuel input	Terajoules					
Hard Coal	6985	3988	12152	38534	27800	38227
Gas-diesel oil	602	1032	1591	1419	1548	86
Total input	7587	5020	13743	39953	29348	38313
Total production	1574	898	2736	8507	*10677	9670
Estimated efficiency (% of production to input)	21	18	20	21	36	25

Statistics on electricity

Brazil

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	531759	552498	570838	590542	581228	578897
Combustible fuels	85062	116068	157810	189498	185066	148549
Hydro	428333	415342	390992	373439	359743	380911
Nuclear	15659	16038	15450	15378	14734	15864
Other	2705	5050	6586	12227	21685	33573
Main activity	454726	474469	484675	496510	484922	480360
Combustible fuels	30741	58502	93705	117565	109876	71486
Hydro	405621	394879	368939	351351	338673	359499
Nuclear	15659	16038	15450	15378	14734	15864
Other	2705	5050	6581	12216	21639	33511
Own use in electricity, CHP and heat plants	5075	6129	7666	8688	8435	7523
Net production	526684	546369	563172	581854	572793	571374
Imports	38430	40722	40334	33778	34642	41313
Exports	2544	467	0	3	219	518
Losses	87524	94355	94995	89157	91067	98317
Consumption	475045	492269	508510	526473	516148	513854
Energy industries own use	18297	20221	22056	22472	23461	22249
By industry and construction	209390	209622	210159	207046	197931	196213
By transport	1700	1785	1884	1979	2055	2007
By households and other cons.	245658	260641	274411	294976	292701	293385
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	117134	120973	126743	133913	140857	150422
Combustible fuels	31243	32786	36528	37827	39563	41286
Hydro	82459	84294	86018	89193	91650	96931
Nuclear	2007	2007	1990	1990	1990	1990
Other	1425	1886	2207	4903	7654	10215
Main activity	99359	102155	106831	113012	118006	126223
Combustible fuels	17905	18448	21426	21800	21607	22101
Hydro	78022	79814	81213	84330	86766	91982
Nuclear	2007	2007	1990	1990	1990	1990
Other	1425	1886	2202	4892	7643	10150
Combustible fuel input	Terajoules					
Hard Coal	127206	168334	236287	263308	266396	259050
Gas-diesel oil	91934	116874	116788	145039	107113	53105
Fuel oil	29411	54015	91748	145400	132835	54500
Refinery gas	13463	17194	30210	22459	22295	18332
Other oil products	8241	10693	8643	9447	9970	9246
Natural gas	230183	398537	611516	739443	722325	501923
Coke-oven gas	13171	11595	11153	14839	10749	11417
Fuelwood	10752	11391	12570	14141	15785	14178
Bagasse	144372	160527	190829	207176	216072	221516
Vegetal waste	128035	143236	103244	194488	236450	286638
Others	0	0	0	0	0	0
Total input	796769	1092396	1412987	1755739	1739990	1429904
Total production	306223	417845	568116	682193	666238	534776
Estimated efficiency (% of production to input)	38	38	40	39	38	37

Statistics on electricity

British Virgin Islands

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	192	198	198	199	*200	*202
Combustible fuels	191	197	197	197	*198	*200
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*1	*1	*1	*2	*2	*2
Main activity	192	198	198	199	*200	*202
Combustible fuels	191	197	197	197	*198	*200
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*1	*1	*1	*2	*2	*2
Own use in electricity, CHP and heat plants	6	7	7	9	*9	*9
Net production	186	191	191	190	*191	*193
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	21	20	18	12	*12	*12
Consumption	*166	*171	*173	*179	*179	*181
Energy industries own use	..	..	..	..	..	..
By industry and construction	*10	*10	*10	*10	*10	*10
By transport	..	..	..	..	..	..
By households and other cons.	*156	*161	*163	*169	*169	*171
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	45	45	45	45	45	45
Combustible fuels	44	44	44	44	44	44
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	1	1
Main activity	45	45	45	45	45	45
Combustible fuels	44	44	44	44	44	44
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	1	1
Combustible fuel input	Terajoules					
Gas-diesel oil	*1720	*1720	*1720	*1763	*1763	*1763
Total input	*1720	*1720	*1720	*1763	*1763	*1763
Total production	688	710	708	710	*713	*720
Estimated efficiency (% of production to input)	40	41	41	40	40	41

Statistics on electricity

Brunei Darussalam

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	3725	3930	4402	4506	4200	4270
Combustible fuels	3723	3928	4400	4504	4198	4269
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	2	2	2	1
Main activity	3395	3524	3942	4010	3738	3843
Combustible fuels	3393	3522	3940	4008	3736	3842
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	2	2	2	1
Own use in electricity, CHP and heat plants	68	79	440	451	420	379
Net production	3657	3851	3962	4055	3780	3891
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	267	243	409	289	269	243
Consumption	3390	3609	3553	3765	3737	3648
Energy industries own use	326	401	398	408	346	421
By industry and construction	226	213	189	203	189	132
By transport	..	..	..	..	..	..
By households and other cons.	2838	2995	2966	3154	3202	3095
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*803	806	*811	*811	*819	*820
Combustible fuels	*802	805	*810	*810	*818	*819
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*1	1	*1	*1	*1	*1
Main activity	*731	697	*701	*701	*709	*709
Combustible fuels	*730	696	*700	*700	*708	*708
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*1	1	*1	*1	*1	*1
Combustible fuel input	Terajoules					
Gas-diesel oil	430	430	430	473	473	473
Natural gas	52528	55917	53434	55145	46433	50501
Total input	52958	56347	53864	55618	46906	50974
Total production	13403	14141	15840	16214	15113	15368
Estimated efficiency (% of production to input)	25	25	29	29	32	30

Statistics on electricity
Bulgaria

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	50797	47329	43784	47485	49228	45277
Combustible fuels	29807	25518	22067	23858	24840	22088
Hydro	3691	3976	4795	5163	6147	4568
Nuclear	16314	15785	14171	15867	15383	15776
Other	985	2050	2751	2597	2858	2845
Main activity	50650	47059	43516	47232	48840	44786
Combustible fuels	29683	25263	21815	23619	24475	21631
Hydro	3691	3976	4795	5163	6147	4568
Nuclear	16314	15785	14171	15867	15383	15776
Other	962	2035	2735	2583	2835	2811
Own use in electricity, CHP and heat plants	4953	4470	3966	4254	4501	4056
Net production	45844	42859	39818	43231	44727	41221
Imports	1449	2353	3351	4319	4251	4568
Exports	12110	10661	9532	13774	14826	10940
Losses	4396	4231	3895	4013	3785	3577
Consumption	30762	30284	29741	29705	30345	31231
Energy industries own use	2341	2439	2209	2031	2019	2333
By industry and construction	8422	8267	8511	8706	8946	8910
By transport	367	302	277	306	352	354
By households and other cons.	19632	19276	18744	18662	19028	19634
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	10262	11684	11651	11425	11016	10904
Combustible fuels	4541	4912	4701	4470	3991	3822
Hydro	3108	3129	3202	3219	3219	3223
Nuclear	1892	1906	1982	1975	1975	1967
Other	721	1737	1766	1761	1831	1892
Main activity	10190	11574	11539	11330	10776	10552
Combustible fuels	4495	4849	4636	4410	3854	3635
Hydro	3108	3129	3202	3219	3219	3223
Nuclear	1892	1906	1982	1975	1975	1967
Other	695	1690	1719	1726	1728	1727
Combustible fuel input	Terajoules					
Hard Coal	64770	44298	33215	39086	17788	13147
Brown Coal	246990	216856	181217	194391	227468	194380
Lignite briquettes	9132	10766	15517	16641	12610	14836
Biogas	83	4	81	412	661	1569
Gas-diesel oil	301	172	129	86	86	86
Fuel oil	808	808	646	525	485	606
Refinery gas	248	743	743	347	99	495
Petroleum coke	3283	5395	6110	7150	6695	8418
Natural gas	35513	37004	36528	33056	28851	28808
Fuelwood	*316	*549	*757	*1279	1281	*1556
Total input	361443	316595	274942	292972	296024	263901
Total production	107305	91865	79441	85889	89424	79517
Estimated efficiency (% of production to input)	30	29	29	29	30	30

Statistics on electricity
Burkina Faso

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	530	625	731	870	999	973
Combustible fuels	448	528	625	780	906	834
Hydro	82	97	106	90	93	140
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	442	479	731	870	999	973
Combustible fuels	360	382	625	780	906	834
Hydro	82	97	106	90	93	140
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	54	53	53	59	59	59
Net production	476	573	678	811	941	915
Imports	495	515	532	488	443	630
Exports	..	..	..	..	..	..
Losses	115	135	158	175	183	*183
Consumption	*856	*952	*1052	*1125	*1200	*1361
Energy industries own use	..	..	..	..	..	..
By industry and construction	329	363	400	414	456	*517
By transport	..	..	..	..	..	..
By households and other cons.	*528	*589	*652	*711	*744	*844
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	261	298	248	285	325	325
Combustible fuels	229	266	216	253	293	293
Hydro	32	32	32	32	32	32
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	200	237	248	285	325	325
Combustible fuels	168	205	216	253	293	293
Hydro	32	32	32	32	32	32
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	2829	3698	3307	3006	2455	*2455
Fuel oil	1547	1321	2424	3919	5446	*5446
Total input	4377	5019	5731	6925	7901	*7901
Total production	1613	1902	2251	2807	3261	3001
Estimated efficiency (% of production to input)	37	38	39	41	41	38

Statistics on electricity

Burundi

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	141	142	159	174	166	167
Combustible fuels	13	3	21	34	29	24
Hydro	128	139	138	140	137	143
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	141	142	159	174	166	167
Combustible fuels	13	3	21	34	29	24
Hydro	128	139	138	140	137	143
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	8	8	8	8	8	8
Net production	133	134	151	166	158	159
Imports	104	104	103	91	*96	*100
Exports	..	..	..	..	..	..
Losses	*40	*40	40	40	*40	*40
Consumption	*197	*198	*214	*217	*214	*216
Energy industries own use	..	..	..	..	..	..
By industry and construction	*80	*78	*86	*89	*86	*87
By transport	..	..	..	..	..	..
By households and other cons.	*117	*120	*128	*128	*128	*130
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	37	37	39	41	*42	*42
Combustible fuels	*5	*5	*7	*9	*9	*7
Hydro	32	32	32	32	*33	*35
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	37	37	39	41	*42	*42
Combustible fuels	*5	*5	*7	*9	*9	*7
Hydro	32	32	32	32	*33	*35
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Fuel oil	*202	*40	*242	*404	*368	*307
Total input	*202	*40	*242	*404	*368	*307
Total production	46	10	74	121	103	87
Estimated efficiency (% of production to input)	23	26	31	30	28	28

Statistics on electricity
Cabo Verde

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	365	375	404	409	421	444
Combustible fuels	341	306	321	338	336	361
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	25	69	83	71	85	83
Main activity	365	374	404	408	420	443
Combustible fuels	340	306	321	338	336	361
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	25	69	83	71	85	83
Own use in electricity, CHP and heat plants	12	11	10	11	12	11
Net production	353	364	394	398	409	433
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	89	97	102	103	104	*118
Consumption	263	266	291	295	*305	*316
Energy industries own use	..	..	..	..	..	..
By industry and construction	18	23	37	33	*34	*36
By transport	..	..	..	..	..	..
By households and other cons.	245	243	255	262	*270	*280
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	108	134	142	154	162	*169
Combustible fuels	100	102	109	121	129	*136
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	9	32	33	33	33	33
Main activity	108	134	142	154	162	*168
Combustible fuels	99	101	108	121	129	*135
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	9	32	33	33	33	33
Combustible fuel input	Terajoules					
Gas-diesel oil	856	778	602	615	*602	*688
Fuel oil	2367	2121	2275	2339	2445	2631
Total input	3223	2899	2877	2954	3047	3319
Total production	1227	1102	1156	1217	1210	1301
Estimated efficiency (% of production to input)	38	38	40	41	40	39

Statistics on electricity

Cambodia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1060	1434	1778	3062	4397	5594
Combustible fuels	1005	914	759	1207	2394	2972
Hydro	52	517	1016	1852	2000	2619
Nuclear	..	..	..	..	..	..
Other	3	3	3	3	3	3
Main activity	1060	1434	1778	3062	4397	5594
Combustible fuels	1005	914	759	1207	2394	2972
Hydro	52	517	1016	1852	2000	2619
Nuclear	..	..	..	..	..	..
Other	3	3	3	3	3	3
Own use in electricity, CHP and heat plants	31	42	52	90	129	186
Net production	1029	1392	1726	2972	4268	5408
Imports	1644	2104	2282	1803	1526	1583
Exports	..	..	..	..	..	..
Losses	296	262	499	717	810	936
Consumption	2370	3234	3509	4058	4984	6053
Energy industries own use	..	..	..	..	..	..
By industry and construction	430	585	635	734	901	1511
By transport	..	..	..	..	..	..
By households and other cons.	1940	2649	2874	3324	4083	4542
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	571	584	1157	1513	1659	1683
Combustible fuels	362	357	472	582	728	751
Hydro	207	225	683	929	930	930
Nuclear	..	..	..	..	..	..
Other	2	*2	*2	*2	*2	*2
Main activity	571	584	1157	1513	1659	1683
Combustible fuels	362	357	472	582	728	751
Hydro	207	225	683	929	930	930
Nuclear	..	..	..	..	..	..
Other	2	*2	*2	*2	*2	*2
Combustible fuel input	Terajoules					
Brown Coal	378	418	1909	9745	24023	27722
Gas-diesel oil	2623	2365	1591	903	645	1075
Fuel oil	7636	6868	4646	2626	1818	3030
Vegetal waste	288	288	158	201	545	*602
Total input	10924	9939	8304	13475	27031	32429
Total production	3618	3290	2732	4345	8618	10699
Estimated efficiency (% of production to input)	33	33	33	32	32	33

Statistics on electricity
Cameroon

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	5921	4725	6090	7108	7943	8367
Combustible fuels	1524	1228	2007	2546	3584	3756
Hydro	4397	3497	4083	4562	4359	4611
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	4795	3814	4453	4975	4738	4999
Combustible fuels	398	317	370	413	379	388
Hydro	4397	3497	4083	4562	4359	4611
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	53	41	52	60	233	245
Net production	5868	4684	6038	7048	7710	8122
Imports	..	1889	1059	557	60	55
Exports	..	..	..	..	..	..
Losses	1091	1602	1879	2114	1663	1752
Consumption	4770	4971	5218	5491	6107	6425
Energy industries own use	..	..	..	..	..	..
By industry and construction	2573	2692	2842	3011	3408	3582
By transport	..	..	..	..	..	..
By households and other cons.	2197	2279	2376	2480	2699	2843
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1297	1348	1671	1749	*1849	*1882
Combustible fuels	*568	*620	939	1017	*1117	*1150
Hydro	728	728	732	*732	*732	*732
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	997	1048	1271	*1249	*1249	*1282
Combustible fuels	268	*320	539	517	*517	*550
Hydro	728	728	732	*732	*732	*732
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	8170	6493	7568	8471	10019	10277
Fuel oil	2384	2505	2626	2788	3272	3353
Natural gas	3190	3828	11759	17069	18966	20483
Fuelwood	*577	*603	*637	*675	*25	*26
Total input	14321	13429	22590	29003	32282	34139
Total production	5486	4421	7225	9166	12902	13522
Estimated efficiency (% of production to input)	38	33	32	32	40	40

Statistics on electricity

Canada

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	633847	634022	659434	661667	668146	667438
Combustible fuels	151141	143851	142191	144878	154549	145136
Hydro	375797	380340	391861	382574	382293	387208
Nuclear	93589	94862	103439	107280	101809	101143
Other	13320	14969	21943	26935	29495	33951
Main activity	580198	576528	601475	600247	595537	600587
Combustible fuels	128008	118395	115496	114632	115997	110339
Hydro	345282	348306	360615	351528	348622	356282
Nuclear	93589	94862	103439	107280	101809	101143
Other	13319	14965	21925	26807	29109	32823
Own use in electricity, CHP and heat plants	19038	18695	19257	19605	19952	18597
Net production	614809	615327	640177	642062	648194	648841
Imports	14554	10928	10694	12808	8726	9302
Exports	51372	57865	62739	58574	68447	73455
Losses	53418	50312	53310	56961	64997	64982
Consumption	558856	542915	546109	535559	501147	506126
Energy industries own use	28224	28592	29432	29719	29347	31449
By industry and construction	174962	172050	172593	170710	170326	168756
By transport	4171	4269	5520	5556	6128	6910
By households and other cons.	351499	338004	338564	329574	295346	299011
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	132959	131054	134316	137844	148200	144073
Combustible fuels	38939	34660	35215	36217	40946	35076
Hydro	75573	75537	75537	75537	79420	80259
Nuclear	12665	13370	14033	14033	14033	14033
Other	5782	7487	9531	12057	13801	14705
Main activity	122465	120508	125062	128350	138434	133344
Combustible fuels	33532	29253	31337	32101	36592	30562
Hydro	70486	70398	70225	70232	74135	75181
Nuclear	12665	13370	14033	14033	14033	14033
Other	5782	7487	9467	11984	13674	13568
Combustible fuel input	Terajoules					
Hard Coal	109746	101195	96900	76876	60806	68308
Brown Coal	626937	562272	540679	559072	570572	531896
Biogas	10122	9097	9893	10206	10206	10206
Gas-diesel oil	9245	10234	9546	11094	12470	12470
Fuel oil	22180	20160	18140	27391	32724	30340
Refinery gas	19800	19949	21285	14801	14108	14652
Petroleum coke	22880	22523	32695	30355	30745	33735
Natural gas	607104	654553	635935	669693	707181	689721
Fuelwood	*47711	*39323	*39323	*40065	*110778	*110790
Municipal waste	2673	2910	3162	3421	3421	3421
Others	1248	1508	1190	1305	1525	1435
Total input	1479645	1443722	1408748	1444278	1554536	1506974
Total production	544108	517864	511888	521561	556376	522490
Estimated efficiency (% of production to input)	37	36	36	36	36	35

Statistics on electricity

Cayman Islands

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	626	607	615	621	640	666
Combustible fuels	626	607	615	621	640	666
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	626	607	615	621	640	666
Combustible fuels	626	607	615	621	640	666
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	626	607	615	621	640	666
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	53	39	40	37	38	40
Consumption	573	568	575	584	601	627
Energy industries own use	..	..	..	..	..	..
By industry and construction	299	297	298	301	308	311
By transport	..	..	..	..	..	..
By households and other cons.	274	271	277	283	293	316
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	151	150	150	132	132	161
Combustible fuels	151	150	150	132	132	161
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	151	150	150	132	132	161
Combustible fuels	151	150	150	132	132	161
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	5547	5160	5074	5246	5332	5246
Total input	5547	5160	5074	5246	5332	5246
Total production	2254	2185	2214	2236	2304	2398
Estimated efficiency (% of production to input)	41	42	44	43	43	46

Statistics on electricity

Central African Rep.

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*174	176	139	171	*171	*172
Combustible fuels	*27	27	1	1	*1	*1
Hydro	*147	149	138	170	*170	*171
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*174	176	139	171	*171	*172
Combustible fuels	*27	27	1	1	*1	*1
Hydro	*147	149	138	170	*170	*171
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	*9	0	0	0	0	0
Net production	*165	176	139	171	*171	*172
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*9	*9	*10	*10	*10	*10
Consumption	*156	*167	*129	*161	*161	*162
Energy industries own use	..	..	..	..	..	..
By industry and construction	*49	*50	*51	*52	*53	*53
By transport	..	..	..	..	..	..
By households and other cons.	*107	*117	*78	*109	*108	*109
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	..	..	..	..	..	..
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	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	*344	*344	*22	*22	*22	*22
Total input	*344	*344	*22	*22	*22	*22
Total production	*97	97	4	4	*4	*4
Estimated efficiency (% of production to input)	28	28	17	17	17	17

Statistics on electricity

Chad

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*218	205	*225	*225	*228	*230
Combustible fuels	*218	205	*225	*225	*228	*230
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*218	205	*225	*225	*228	*230
Combustible fuels	*218	205	*225	*225	*228	*230
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	*18	19	*19	*19	*13	*12
Net production	*200	186	*206	*206	*215	*218
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	..	..	..	..	..	..
Consumption	*200	*186	*206	*206	*215	*218
Energy industries own use	..	..	..	..	..	..
By industry and construction	*71	*66	*73	*73	*75	*77
By transport	..	..	..	..	..	..
By households and other cons.	*130	*120	*133	*133	*140	*141
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*41	*41	*86	*86	*86	*86
Combustible fuels	*41	*41	*86	*86	*86	*86
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*41	*41	*86	*86	*86	*86
Combustible fuels	*41	*41	*86	*86	*86	*86
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	*2408	*2408	*2460	*2460	*2537	*2537
Total input	*2408	*2408	*2460	*2460	*2537	*2537
Total production	*785	738	*810	*810	*821	*828
Estimated efficiency (% of production to input)	33	31	33	33	32	33

Statistics on electricity

Chile

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	65713	69751	73065	70753	75387	79308
Combustible fuels	44366	49184	52602	45440	48130	50946
Hydro	21009	20158	19737	23099	23881	23274
Nuclear	..	..	..	..	..	..
Other	338	409	726	2214	3376	5088
Main activity	60286	63973	66643	64841	69166	72332
Combustible fuels	39001	43607	46374	39706	41956	44131
Hydro	20953	19979	19562	22940	23837	23113
Nuclear	..	..	..	..	..	..
Other	332	387	707	2195	3373	5088
Own use in electricity, CHP and heat plants	2524	3911	3321	1301	3358	2854
Net production	63189	65840	69744	69452	72029	76454
Imports	732	0	..	..	..	..
Exports	..	..	..	..	..	2
Losses	4687	3499	4890	4364	3707	2873
Consumption	58492	62947	66065	67836	67650	70830
Energy industries own use	560	702	864	688	643	659
By industry and construction	38432	42154	42742	43333	42267	43611
By transport	478	500	536	944	1088	986
By households and other cons.	19022	19591	21923	22871	23652	25574
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	17549	18153	18515	20513	21436	24530
Combustible fuels	11419	11957	12105	13111	13451	15695
Hydro	5946	5992	6094	6445	6499	6671
Nuclear	..	..	..	..	..	..
Other	184	204	316	957	1486	2164
Main activity	16358	17116	17305	19203	20108	22044
Combustible fuels	10244	10974	10988	11829	12132	13247
Hydro	5932	5950	6012	6417	6491	6635
Nuclear	..	..	..	..	..	..
Other	182	192	305	957	1485	2162
Combustible fuel input	Terajoules					
Hard Coal	197240	234552	285220	240980	278760	270099
Biogas	0	0	340	2241	2794	2855
Gas-diesel oil	40463	50654	26230	27348	21586	21242
Fuel oil	4969	8888	7474	6908	3596	2868
Liquefied petroleum gas	..	..	..	..	47	..
Refinery gas	396	495	2624	0	..	..
Petroleum coke	14365	16088	14203	6273	6533	7800
Natural gas	112011	112082	96694	79254	90267	99283
Fuelwood	25947	154961	176837	141213	149448	*172652
Total input	395391	577720	609621	504217	553030	576799
Total production	159718	177062	189367	163584	173268	183406
Estimated efficiency (% of production to input)	40	31	31	32	31	32

Statistics on electricity

China

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	4713019	4987553	5431637	5649583	5814573	6142486
Combustible fuels	3833702	3892814	4247009	4268649	4284188	4437068
Hydro	698945	872107	920291	1064337	1130270	1193374
Nuclear	86350	97394	111613	132538	170789	213287
Other	94022	125238	152724	184059	229326	298757
Main activity	4402106	4671846	5087205	5303396	5467125	5782640
Combustible fuels	3522789	3577107	3902577	3922462	3936740	4077222
Hydro	698945	872107	920291	1064337	1130270	1193374
Nuclear	86350	97394	111613	132538	170789	213287
Other	94022	125238	152724	184059	229326	298757
Own use in electricity, CHP and heat plants	381142	367045	404279	419079	444674	491449
Net production	4331877	4620508	5027358	5230504	5369899	5651037
Imports	6562	6874	7438	6750	6210	6185
Exports	19307	17653	18669	18158	18654	18907
Losses	270070	289616	314071	309988	298786	306293
Consumption	4048876	4319603	4701991	4909301	5058537	5331967
Energy industries own use	189065	197977	217886	222925	227133	230306
By industry and construction	2686060	2829423	3054959	3200445	3254272	3353403
By transport	84842	91537	100092	105924	112561	125149
By households and other cons.	1088909	1200666	1329054	1380007	1464571	1623109
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1143683	1228747	1342467	1473101	1628711	1762138
Combustible fuels	834799	888257	945120	1014410	1095840	1160274
Hydro	240364	257090	288777	313981	331671	344371
Nuclear	12570	12570	14660	20080	27170	33642
Other	55950	70830	93910	124630	174030	223851
Main activity	1069840	1152550	1259100	1381890	1526280	1650508
Combustible fuels	768340	819680	870090	932320	1005540	1060944
Hydro	232980	249470	280440	304860	319540	332071
Nuclear	12570	12570	14660	20080	27170	33642
Other	55950	70830	93910	124630	174030	223851
Combustible fuel input	Terajoules					
Hard Coal	36237647	36030806	38346504	36892143	36349633	36971538
Fuel oil	98818	93094	86630	14362	12734	12577
Refinery gas	103336	102366	93035	112815	24958	27938
Petroleum coke	39540	42455	34983	37161	44288	49280
Natural gas	947506	981657	1061128	1137996	1405429	1647023
Gasworks gas	72887	76274	82138	85229	91643	119217
Coke-oven gas	213395	238945	274931	299059	305213	347514
Blast furnace gas	350393	362066	468351	539699	552103	641506
Vegetal waste	127686	153223	189996	229758	310173	356699
Industrial waste	155077	157922	177157	186570	158824	164335
Others	54795	30823	33974	31224	21691	20769
Total input	38401079	38269631	40848827	39566016	39276687	40358394
Total production	13801327	14014130	15289234	15367138	15423075	15973446
Estimated efficiency (% of production to input)	36	37	37	39	39	40

Statistics on electricity

China, Hong Kong SAR

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	39026	38752	39063	39803	37924	38154
Combustible fuels	39026	38752	39063	39803	37924	38154
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	39026	38752	39063	39803	37924	38154
Combustible fuels	39026	38752	39063	39803	37924	38154
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	39026	38752	39063	39803	37924	38154
Imports	10735	11156	9969	10288	11742	11621
Exports	2957	1838	1650	1226	1187	1205
Losses	4739	5039	4826	4986	4567	4542
Consumption	42065	43031	42556	43880	43912	44028
Energy industries own use	..	..	..	..	..	..
By industry and construction	3084	3134	3108	3134	3177	3126
By transport	..	..	..	..	..	..
By households and other cons.	38981	39897	39448	40746	40735	40902
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	12624	12625	12625	12625	12625	12625
Combustible fuels	12624	12625	12625	12625	12625	12625
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	12624	12625	12625	12625	12625	12625
Combustible fuels	12624	12625	12625	12625	12625	12625
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Hard Coal	309976	305150	325274	340806	280287	280313
Gas-diesel oil	559	4085	602	2064	2623	3827
Fuel oil	970	3798	1212	40	0	0
Natural gas	89083	82075	79589	73829	103478	106574
Total input	400588	395108	406677	416739	386388	390714
Total production	140494	139507	140627	143291	136526	137354
Estimated efficiency (% of production to input)	35	35	35	34	35	35

Statistics on electricity
China, Macao SAR

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	886	561	413	641	962	988
Combustible fuels	886	561	413	641	962	988
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	733	392	227	435	753	787
Combustible fuels	733	392	227	435	753	787
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	52	44	35	42	59	58
Net production	834	517	378	599	903	930
Imports	3165	3855	4059	4099	4054	4306
Exports	..	..	..	..	..	..
Losses	142	167	146	166	124	158
Consumption	3858	4205	4290	4532	4833	5078
Energy industries own use	3	2	2	2	2	2
By industry and construction	203	213	221	251	253	218
By transport	..	..	..	..	..	..
By households and other cons.	3652	3990	4067	4279	4578	4858
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	501	504	507	511	512	512
Combustible fuels	501	504	507	511	512	512
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	472	472	472	472	472	472
Combustible fuels	472	472	472	472	472	472
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	43	0	0	0	430	86
Fuel oil	3394	2909	1778	1737	5616	6100
Natural gas	2872	0	0	2210	0	0
Municipal waste	*1541	*1627	*1842	*2058	*1296	*1273
Total input	7850	4536	*3620	6005	7342	7459
Total production	3190	2020	1487	2308	3463	3557
Estimated efficiency (% of production to input)	41	45	41	38	47	48

Statistics on electricity
Colombia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	66472	68344	70858	70059	67527	71315
Combustible fuels	17514	20689	26423	25149	22648	22298
Hydro	48917	47600	44377	44852	44821	48966
Nuclear	..	..	..	..	..	..
Other	41	55	58	58	58	51
Main activity	62881	64554	67394	66316	63784	67508
Combustible fuels	14079	17031	23080	21545	19044	18491
Hydro	48761	47468	44256	44713	44682	48966
Nuclear	..	..	..	..	..	..
Other	41	55	58	58	58	51
Own use in electricity, CHP and heat plants	1802	1844	1912	1977	2046	2027
Net production	64670	66500	68946	68082	65481	69288
Imports	8	7	5	47	45	378
Exports	1540	713	1374	849	484	45
Losses	7412	7700	6660	7487	9244	7000
Consumption	57845	59285	67260	51268	51153	64920
Energy industries own use	..	..	..	..	..	4771
By industry and construction	22833	22626	25434	16374	17262	18932
By transport	63	65	75	77	81	96
By households and other cons.	34949	36594	41751	34817	33810	41121
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	15041	15033	15177	14823	16661	16597
Combustible fuels	5158	5088	5131	5043	5093	4972
Hydro	9810	9870	9967	9696	11484	11606
Nuclear	..	..	..	..	..	..
Other	73	75	79	84	84	18
Main activity	14427	14413	14557	14203	16041	15973
Combustible fuels	4636	4560	4603	4515	4565	4442
Hydro	9718	9778	9875	9604	11392	11512
Nuclear	..	..	..	..	..	..
Other	73	75	79	84	84	18
Combustible fuel input	Terajoules					
Hard Coal	34091	32841	34290	71029	64742	65504
Crude oil	..	..	..	..	10110	10702
Gas-diesel oil	43	1763	12599	12599	23779	28495
Fuel oil	1616	2384	2101	2303	6650	7231
Liquefied petroleum gas	1039	994	1066	1082	1043	1083
Other kerosene	..	..	88	44	482	745
Natural gas	103376	108401	132546	156632	153647	138920
Blast furnace gas	501	590	525	400	410	384
Bagasse	27854	30672	31568	13805	16302	16896
Vegetal waste	609	661	572	0	0	0
Others	590	590	486	..	..	..
Total input	169719	178896	215840	257893	277165	269960
Total production	63050	74480	95123	90536	81533	80273
Estimated efficiency (% of production to input)	37	42	44	35	29	30

Statistics on electricity
Comoros

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*57	*58	*56	*53	*38	*50
Combustible fuels	*57	*58	*56	*53	*38	*50
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*57	*58	*56	*53	*38	*50
Combustible fuels	*57	*58	*56	*53	*38	*50
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	*57	*58	*56	*53	*38	*50
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*12	*12	*12	*11	*8	*10
Consumption	*46	*46	*44	*42	*31	*40
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*46	*46	*44	*42	*31	*40
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*23	*23	*24	*25	*26	*26
Combustible fuels	*23	*23	*24	*25	*26	*26
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*23	*23	*24	*25	*26	*26
Combustible fuels	*23	*23	*24	*25	*26	*26
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	*619	*632	*606	*589	*452	*597
Total input	*619	*632	*606	*589	*452	*597
Total production	*207	*210	*202	*189	*136	*180
Estimated efficiency (% of production to input)	33	33	33	32	30	30

Statistics on electricity

Congo

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1293	1700	1709	1740	1734	1753
Combustible fuels	502	713	738	788	809	794
Hydro	791	987	971	952	925	959
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	800	987	971	952	925	959
Combustible fuels	9	..	..	..	..	..
Hydro	791	987	971	952	925	959
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	145	191	192	195	194	196
Net production	1148	1509	1517	1545	1540	1557
Imports	27	25	56	18	18	18
Exports	0	0	19	22	22	22
Losses	671	757	761	775	772	780
Consumption	606	792	802	798	796	805
Energy industries own use	..	..	..	..	..	..
By industry and construction	283	370	375	373	372	376
By transport	..	..	..	..	..	..
By households and other cons.	323	422	427	425	424	429
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*369	*390	*390	*390	350	*379
Combustible fuels	*149	*170	*170	*170	141	*170
Hydro	*220	*220	*220	*220	209	*209
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*249	*230	*230	*230	250	*219
Combustible fuels	*29	*10	*10	*10	41	*10
Hydro	*220	*220	*220	*220	209	*209
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	129	..	..	..	..	..
Fuel oil	0	..	..	..	..	..
Natural gas	5734	8293	8584	9166	9410	9236
Total input	5863	8293	8584	9166	9410	9236
Total production	1807	2567	2657	2837	2912	2858
Estimated efficiency (% of production to input)	31	31	31	31	31	31

Statistics on electricity

Cook Islands

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*34	*33	*33	*32	*29	*33
Combustible fuels	*33	*32	*31	*29	*27	*30
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*1	*1	*1	*3	*2	*4
Main activity	*34	*33	*33	*32	*29	*33
Combustible fuels	*33	*32	*31	*29	*27	*30
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*1	*1	*1	*3	*2	*4
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	*34	*33	*33	*32	*29	*33
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	..	..	..	..	..	..
Consumption	34	33	33	32	29	33
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	34	33	33	32	29	33
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*10	*12	*12	*10	*13	*13
Combustible fuels	*9	*11	*11	*8	*11	*11
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*1	*1	*1	*2	*2	*2
Main activity	*10	*12	*12	*10	*13	*13
Combustible fuels	*9	*11	*11	*8	*11	*11
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*1	*1	*1	*2	*2	*2
Combustible fuel input	Terajoules					
Gas-diesel oil	*344	*340	*335	*327	*301	*314
Total input	*344	*340	*335	*327	*301	*314
Total production	*118	*113	*112	*105	*97	*107
Estimated efficiency (% of production to input)	34	33	33	32	32	34

Statistics on electricity
Costa Rica

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	9831	10174	10234	10216	10812	10880
Combustible fuels	1002	1009	1379	1224	287	365
Hydro	7135	7233	6851	6717	8067	8026
Nuclear	..	..	..	..	..	..
Other	1694	1932	2004	2275	2458	2489
Main activity	7837	7988	8077	7858	7797	8028
Combustible fuels	863	830	1196	1043	108	193
Hydro	5831	5877	5490	5379	6256	6416
Nuclear	..	..	..	..	..	..
Other	1143	1281	1391	1436	1433	1420
Own use in electricity, CHP and heat plants	91	109	109	117	124	124
Net production	9741	10066	10125	10099	10688	10756
Imports	283	419	531	759	537	807
Exports	320	402	484	555	643	657
Losses	1060	1083	1083	1106	1161	1130
Consumption	8673	9019	9102	9207	9428	9785
Energy industries own use	..	..	..	..	..	..
By industry and construction	1818	1893	1897	1858	1873	1956
By transport	..	..	..	..	..	..
By households and other cons.	6855	7126	7205	7349	7556	7829
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2889	2724	2814	3274	3626	3812
Combustible fuels	862	656	638	622	661	597
Hydro	1682	1700	1729	2045	2152	2328
Nuclear	..	..	..	..	..	..
Other	345	368	*448	607	*813	*887
Main activity	2521	2354	2440	2845	3061	3217
Combustible fuels	834	635	613	597	636	572
Hydro	1472	1490	1519	1835	1942	2118
Nuclear	..	..	..	..	..	..
Other	215	229	309	413	483	527
Combustible fuel input	Terajoules					
Biogas	1	1	1	1	1	1
Gas-diesel oil	3575	850	2690	2609	56	163
Fuel oil	4740	6390	8093	7102	892	1520
Bagasse	883	1196	1196	1129	1196	1196
Vegetal waste	109	118	118	118	118	118
Total input	9308	8556	12099	10959	2264	2998
Total production	3608	3632	4965	4406	1035	1312
Estimated efficiency (% of production to input)	39	42	41	40	46	44

Statistics on electricity
Côte d'Ivoire

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	6099	7016	7650	8286	8711	10253
Combustible fuels	4325	5227	6044	6373	7359	8724
Hydro	1774	1789	1606	1913	1352	1529
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	6034	6948	7580	8214	8606	10080
Combustible fuels	4260	5159	5974	6301	7254	8551
Hydro	1774	1789	1606	1913	1352	1529
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	305	351	383	414	436	513
Net production	5794	6665	7267	7872	8275	9740
Imports	22	54	0	0	23	19
Exports	615	645	820	877	872	1877
Losses	1365	1366	1680	1187	1744	1627
Consumption	3836	4708	5046	5561	6023	6615
Energy industries own use	..	..	..	..	..	..
By industry and construction	1312	1737	1900	1881	2011	2177
By transport	..	..	..	..	..	..
By households and other cons.	2524	2971	3146	3680	4012	4438
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*1414	*1414	*1525	*1655	1909	1909
Combustible fuels	*843	*1043	*1154	*1223	1305	1305
Hydro	*571	*371	*371	*432	604	604
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*1391	*1391	*1502	*1632	1886	1886
Combustible fuels	*820	*1020	*1131	*1200	1282	1282
Hydro	*571	*371	*371	*432	604	604
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	86	129	129	129	129	99
Fuel oil	323	5090	2303	6141	4848	893
Natural gas	52420	60590	64384	64991	67526	73437
Vegetal waste	1364	1401	1439	1478	1885	1941
Total input	54193	67210	68255	72739	74388	76369
Total production	15570	18817	21758	22943	26492	31405
Estimated efficiency (% of production to input)	29	28	32	32	36	41

Statistics on electricity
Croatia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	11373	10755	14052	13554	11403	12820
Combustible fuels	6010	5425	4797	3664	3994	4682
Hydro	5162	4999	8727	9125	6556	7058
Nuclear	..	..	..	..	..	..
Other	201	331	528	765	853	1080
Main activity	10857	10367	13720	13209	11087	12482
Combustible fuels	5498	5042	4470	3326	3684	4351
Hydro	5158	4994	8722	9118	6550	7051
Nuclear	..	..	..	..	..	..
Other	201	331	528	765	853	1080
Own use in electricity, CHP and heat plants	422	359	392	395	420	536
Net production	10951	10396	13660	13159	10983	12284
Imports	13985	13174	11260	10898	13158	12398
Exports	6830	5743	7391	6945	6369	6867
Losses	1831	1887	1944	1764	1802	1806
Consumption	16275	15940	15585	15348	15970	16009
Energy industries own use	540	590	513	515	627	709
By industry and construction	3349	3039	3148	3291	3429	3426
By transport	261	249	238	231	245	251
By households and other cons.	12125	12062	11686	11311	11669	11623
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	4015	4222	4312	4428	4764	4794
Combustible fuels	1787	1897	1849	1933	2124	2082
Hydro	2110	2141	2190	2114	2207	2175
Nuclear	..	..	..	..	..	..
Other	118	184	273	381	*433	537
Main activity	3801	4021	4155	4271	4597	4627
Combustible fuels	1577	1698	1694	1778	1959	1917
Hydro	2106	2139	2188	2112	2205	2173
Nuclear	..	..	..	..	..	..
Other	118	184	273	381	*433	537
Combustible fuel input	Terajoules					
Hard Coal	23347	21147	23519	22796	21951	24409
Brown Coal	176	120	123	143	128	152
Biogas	276	437	655	974	1438	1881
Gas-diesel oil	43	86	43	43	86	43
Fuel oil	7393	5414	2222	1535	2303	404
Liquefied petroleum gas	0	47	0	..	..	..
Refinery gas	50	149	99	99	149	149
Petroleum coke	33	0	0	..	..	..
Natural gas	28364	28239	24563	15770	17107	20405
Fuelwood	833	1046	1146	1190	2189	3730
Total input	60514	56684	52370	42550	45350	51173
Total production	21636	19530	17269	13190	14378	16855
Estimated efficiency (% of production to input)	36	34	33	31	32	33

Statistics on electricity
Cuba

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	17759	18432	19140	19366	20288	20459
Combustible fuels	17660	18321	19012	19262	20240	20394
Hydro	99	111	127	104	48	64
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	16944	17596	18263	18529	19390	19509
Combustible fuels	16845	17485	18135	18424	19342	19445
Hydro	99	111	127	104	48	64
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	947	982	1025	1013	993	1058
Net production	16812	17450	18115	18354	19295	19400
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	2787	2902	2927	2961	3135	3117
Consumption	14025	14545	15188	15392	16160	16283
Energy industries own use	..	..	..	..	..	..
By industry and construction	3834	3918	3924	3679	3793	3772
By transport	254	258	296	302	312	287
By households and other cons.	9938	10368	10969	11411	12056	12224
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	5914	5699	6055	6169	6280	6454
Combustible fuels	5849	5637	5992	6106	6217	6388
Hydro	65	62	63	63	63	66
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	5370	5180	5585	5671	5751	5960
Combustible fuels	5305	5118	5522	5608	5688	5894
Hydro	65	62	63	63	63	66
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	*19307	*18748	*19780	*18877	*19823	*13721
Fuel oil	152498	157669	161224	166347	168440	171203
Natural gas	*13930	*14135	*14559	*14996	*16705	*15913
Bagasse	11815	11274	10927	12657	13251	*13128
Total input	197550	201826	206490	212876	218219	213965
Total production	63576	65956	68444	69343	72863	73420
Estimated efficiency (% of production to input)	32	33	33	33	33	34

Statistics on electricity

Curaçao

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	..	917	904	891	862	884
Combustible fuels	..	885	872	859	830	652
Hydro
Nuclear
Other	..	32	32	32	32	232
Main activity	..	431	425	419	405	416
Combustible fuels	..	399	393	387	373	184
Hydro
Nuclear
Other	..	32	32	32	32	232
Own use in electricity, CHP and heat plants	..	86	85	84	42	83
Net production	..	831	819	807	820	801
Imports
Exports
Losses	..	147	145	143	138	141
Consumption	..	684	674	664	682	660
Energy industries own use
By industry and construction	..	376	371	365	353	362
By transport
By households and other cons.	..	308	303	299	*329	298
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	..	*265	*265	*265	292	*307
Combustible fuels	..	*235	*235	*235	262	*262
Hydro
Nuclear
Other	..	*30	*30	*30	30	45
Main activity	..	*132	*132	*132	146	*161
Combustible fuels	..	*102	*102	*102	116	*116
Hydro
Nuclear
Other	..	*30	*30	*30	30	45
Combustible fuel input	Terajoules					
Fuel oil	..	8201	8080	7959	7716	5858
Total input	..	8201	8080	7959	7716	5858
Total production	..	3186	3139	3092	2988	2347
Estimated efficiency (% of production to input)	..	39	39	39	39	40

Statistics on electricity

Cyprus

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	4929	4717	4290	4350	4533	4887
Combustible fuels	4803	4510	4012	4084	4186	4515
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	126	207	278	266	347	372
Main activity	4861	4657	4230	4272	4447	4789
Combustible fuels	4737	4452	3954	4026	4142	4469
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	124	205	276	246	305	320
Own use in electricity, CHP and heat plants	231	174	171	205	221	220
Net production	4698	4543	4119	4145	4312	4667
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	160	137	186	173	215	263
Consumption	4729	4417	3935	3972	4098	4404
Energy industries own use	8	8	14	7	7	5
By industry and construction	529	485	462	463	459	486
By transport	..	..	..	..	..	..
By households and other cons.	4192	3924	3459	3502	3632	3913
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1736	1726	1700	1734	1773	1789
Combustible fuels	1591	1561	1517	1513	1519	1519
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	145	165	183	221	254	270
Main activity	1699	1689	1663	1692	1712	1718
Combustible fuels	1555	1525	1481	1481	1478	1478
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	144	164	182	211	234	240
Combustible fuel input	Terajoules					
Biogas	272	283	289	292	309	312
Gas-diesel oil	4902	9288	10234	5375	3913	6536
Fuel oil	42905	36279	26381	32199	34663	35673
Total input	48079	45850	36904	37866	38885	42521
Total production	17291	16236	14443	14702	15070	16254
Estimated efficiency (% of production to input)	36	35	39	39	39	38

Statistics on electricity

Czechia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	87477	87418	86913	86148	83892	83309
Combustible fuels	53867	51595	49940	50174	51063	53279
Hydro	2664	2860	3639	2961	3071	3202
Nuclear	28283	30324	30745	30325	26841	24104
Other	2663	2639	2589	2688	2917	2724
Main activity	79617	79473	78254	77025	74637	73864
Combustible fuels	46566	44225	41952	41676	42427	44503
Hydro	2161	2337	3018	2397	2505	2604
Nuclear	28283	30324	30745	30325	26841	24104
Other	2607	2587	2539	2627	2864	2653
Own use in electricity, CHP and heat plants	7569	7109	7136	7032	6976	6911
Net production	79908	80309	79777	79116	76916	76398
Imports	10457	11587	10571	11842	16146	13817
Exports	27501	28707	27458	28142	28661	24791
Losses	4405	4187	4098	3847	4067	4080
Consumption	56672	56945	56397	56503	58197	59390
Energy industries own use	3021	3061	3117	3227	3559	3340
By industry and construction	22494	22377	21349	22190	22806	23204
By transport	1606	1614	1592	1559	1609	1636
By households and other cons.	29551	29893	30339	29527	30223	31210
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	20250	20520	21079	21920	21866	21989
Combustible fuels	11957	11988	12211	13032	12960	13087
Hydro	2197	2212	2252	2252	2260	2262
Nuclear	3970	4040	4290	4290	4290	4290
Other	2126	2280	2326	2346	2356	2350
Main activity	18363	18622	19178	20040	19990	20096
Combustible fuels	10244	10273	10498	11342	11275	11385
Hydro	2023	2029	2064	2062	2069	2071
Nuclear	3970	4040	4290	4290	4290	4290
Other	2126	2280	2326	2346	2356	2350
Combustible fuel input	Terajoules					
Hard Coal	95253	84582	90684	85794	95799	96998
Brown Coal	478699	457562	426641	411944	417365	416741
Biogas	7514	11552	18284	19693	19813	18272
Natural gas	21826	23654	28457	24489	28224	38346
Gasworks gas	17617	16182	16126	16999	16474	16658
Coke-oven gas	6717	6221	6372	6328	5278	4717
Blast furnace gas	7888	7129	8575	8716	7840	8150
Fuelwood	*17370	*19150	*19610	*22605	*24479	*25123
Municipal waste	4141	4410	4201	4251	3953	4440
Other recovered gases	1147	1225	1222	1433	1108	1139
Others	4129	3105	2026	2309	2417	1963
Total input	662301	634773	622199	604560	622751	632547
Total production	193921	185742	179784	180626	183827	191804
Estimated efficiency (% of production to input)	29	29	29	30	30	30

Statistics on electricity
Dem. Rep. of the Congo

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	7899	7612	8258	8850	8953	9135
Combustible fuels	88	26	27	30	37	36
Hydro	7811	7586	8231	8820	8916	9099
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	7535	7595	8240	8824	8928	9111
Combustible fuels	8	9	9	4	12	12
Hydro	7527	7586	8231	8820	8916	9099
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	493	480	521	640	647	660
Net production	7406	7132	7737	8210	8306	8475
Imports	44	626	626	1138	20	20
Exports	171	48	48	69	422	420
Losses	561	430	466	1895	1260	1216
Consumption	6718	7383	7271	7899	7266	7001
Energy industries own use	..	..	..	..	..	..
By industry and construction	4258	3652	3262	4342	3994	3848
By transport	..	15	0	0	0	..
By households and other cons.	2460	3716	4009	3557	3272	3153
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*2486	*2496	*2508	*2522	*2549	*2677
Combustible fuels	*70	*80	*92	*106	*120	*135
Hydro	*2416	*2416	*2416	*2416	*2429	*2542
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*1959	*1969	*2079	*2089	*2100	*2110
Combustible fuels	*60	*70	*80	*90	*100	*110
Hydro	*1899	*1899	*1999	*1999	*2000	*2000
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	86	43	43	43	129	129
Natural gas	914	0	0	80	46	14
Fuelwood	..	2614	2703	2784	3014	3114
Total input	1000	2657	2746	2907	3189	3257
Total production	317	94	97	108	133	130
Estimated efficiency (% of production to input)	32	4	4	4	4	4

Statistics on electricity

Denmark

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	35229	30701	34743	32185	28946	30522
Combustible fuels	25423	20310	23089	18495	14191	16977
Hydro	17	17	13	15	18	19
Nuclear	..	..	..	..	..	..
Other	9789	10374	11641	13675	14737	13526
Main activity	33068	28654	32315	29582	26309	27898
Combustible fuels	23277	18367	21179	16488	12158	15097
Hydro	17	17	13	15	18	19
Nuclear	..	..	..	..	..	..
Other	9774	10270	11123	13079	14133	12782
Own use in electricity, CHP and heat plants	1680	1500	1604	1369	1039	1476
Net production	33549	29201	33139	30816	27907	29046
Imports	11694	15920	11459	12702	15645	14976
Exports	10374	10706	10377	9847	9734	9919
Losses	2201	2150	1914	1974	1777	1880
Consumption	32584	32073	32152	31569	31732	32006
Energy industries own use	925	892	1046	794	852	852
By industry and construction	8648	8543	8359	8214	8373	8427
By transport	397	385	386	385	397	417
By households and other cons.	22614	22253	22361	22176	22110	22310
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	13587	14075	13808	13625	14002	14336
Combustible fuels	9609	9500	8410	8122	8137	8231
Hydro	9	9	9	9	7	9
Nuclear	..	..	..	..	..	..
Other	3969	4566	5389	5494	5858	6096
Main activity	12938	13043	12663	12402	12605	12875
Combustible fuels	8977	8870	7836	7506	7522	7621
Hydro	9	9	9	9	7	9
Nuclear	..	..	..	..	..	..
Other	3952	4164	4818	4887	5076	5245
Combustible fuel input	Terajoules					
Hard Coal	130067	101281	123557	97004	67846	79981
Biogas	3269	3516	3697	4316	4598	5326
Gas-diesel oil	1290	1118	946	387	301	258
Fuel oil	2626	2141	2384	1495	1576	1495
Liquefied petroleum gas	47	47	47	47	47	47
Refinery gas	1188	1337	1337	1584	1485	1535
Natural gas	62624	47273	39517	23175	20826	24128
Fuelwood	*38156	*40969	*42200	*41155	*39833	*45796
Municipal waste	32728	32282	32301	33475	34286	34409
Other liquid biofuels	0	0	0	0	0	0
Others	0	0	0	0	0	0
Total input	271996	229964	245986	202638	170798	192974
Total production	91523	73116	83120	66582	51088	61117
Estimated efficiency (% of production to input)	34	32	34	33	30	32

Statistics on electricity

Djibouti

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*387	390	402	402	402	402
Combustible fuels	*387	390	402	402	402	402
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*387	390	402	402	402	402
Combustible fuels	*387	390	402	402	402	402
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	*7	3	6	6	4	7
Net production	*381	387	396	396	398	395
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	90	*90	*90	*91	*90	*90
Consumption	*290	*295	*305	*305	*305	*305
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*290	*295	*305	*305	*305	*305
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	*761	*860	*1548	*1548	*1548	*1750
Fuel oil	*2828	*2828	*2424	*2424	*2424	*2270
Total input	*3589	*3688	*3972	*3972	*3972	*4021
Total production	*1393	1404	1447	1447	1447	1447
Estimated efficiency (% of production to input)	39	38	36	36	36	36

Statistics on electricity
Dominica

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	151	150	144	147	151	156
Combustible fuels	106	116	107	117	127	120
Hydro	45	33	37	31	24	36
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	109	108	101	102	107	112
Combustible fuels	65	75	64	72	83	75
Hydro	45	33	37	31	24	36
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	3	3	3	3	4	4
Net production	148	147	140	144	147	152
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	8	8	8	8	8	9
Consumption	140	139	*132	*136	*139	*143
Energy industries own use	..	..	..	..	..	..
By industry and construction	*22	*22	*22	*22	*21	*22
By transport	..	..	..	..	..	..
By households and other cons.	118	116	*111	*114	*118	*121
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	40	40	41	41	41	41
Combustible fuels	34	34	34	35	35	35
Hydro	7	7	7	7	7	7
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	27	27	27	27	27	27
Combustible fuels	20	20	20	20	20	20
Hydro	7	7	7	7	7	7
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	621	761	*791	*824	*809	*831
Fuel oil	*473	*521	*481	*525	*570	*543
Total input	1094	1282	*1272	*1349	*1379	*1374
Total production	382	418	385	420	456	430
Estimated efficiency (% of production to input)	35	33	30	31	33	31

Statistics on electricity
Dominican Republic

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	15672	16836	17649	17168	17923	18691
Combustible fuels	14142	14948	15514	15624	16641	16758
Hydro	1515	1785	1875	1271	945	1519
Nuclear	..	..	..	..	..	..
Other	15	104	261	272	338	415
Main activity	13938	14953	15454	15164	15948	16728
Combustible fuels	12411	13075	13339	13654	14718	14869
Hydro	1513	1783	1872	1267	940	1513
Nuclear	..	..	..	..	..	..
Other	14	96	243	243	290	347
Own use in electricity, CHP and heat plants	548	591	546	666	674	688
Net production	15124	16245	17103	16502	17249	18003
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	2012	2158	2241	2181	2297	2412
Consumption	13112	14088	14862	14321	14952	15591
Energy industries own use	0	..	..	..	..	..
By industry and construction	4872	5125	5487	4518	5029	5294
By transport	32	31	46	52	54	54
By households and other cons.	8208	8932	9329	9750	9870	10244
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	4936	5349	5344	5419	5217	5203
Combustible fuels	4371	4648	4638	4703	4489	4380
Hydro	532	613	614	617	617	617
Nuclear	..	..	..	..	..	..
Other	34	88	92	100	110	206
Main activity	3368	3644	3841	3877	3697	3808
Combustible fuels	2803	2945	3143	3175	2995	3027
Hydro	531	613	613	616	616	616
Nuclear	..	..	..	..	..	..
Other	34	86	86	86	86	165
Combustible fuel input	Terajoules					
Hard Coal	20493	22611	22250	25738	24415	25026
Motor gasoline	669	691	687	647	656	660
Gas-diesel oil	23813	22420	16009	17312	20158	19776
Fuel oil	52476	48217	49276	55667	64648	67117
Natural gas	30226	35036	36481	35750	36429	34241
Bagasse	36	39	36	36	36	42
Total input	127712	129014	124739	135150	146341	146861
Total production	50910	53812	55849	56248	59907	60328
Estimated efficiency (% of production to input)	40	42	45	42	41	41

Statistics on electricity

Ecuador

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	20544	22848	23774	24307	25950	26899
Combustible fuels	9408	10608	12161	12753	12719	10868
Hydro	11133	12238	11553	11458	13096	15834
Nuclear	..	..	..	..	..	..
Other	3	3	60	96	135	197
Main activity	17103	18982	19883	20476	21756	22604
Combustible fuels	6472	7252	8783	9445	9223	7303
Hydro	10628	11727	11039	10935	12399	15104
Nuclear	..	..	..	..	..	..
Other	3	3	60	96	135	197
Own use in electricity, CHP and heat plants	352	385	934	515	497	74
Net production	20192	22463	22840	23792	25453	26825
Imports	1295	238	662	837	512	82
Exports	14	12	29	47	46	402
Losses	3350	3213	3057	3118	3186	3499
Consumption	18185	19492	20420	21697	22874	23492
Energy industries own use	..	..	..	..	..	..
By industry and construction	7724	8320	8360	8713	8904	9372
By transport	10	10	10	10	10	10
By households and other cons.	10451	11163	12049	12974	13960	14109
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	4998	5063	5103	5299	5557	7607
Combustible fuels	2788	2824	2843	3011	3109	3142
Hydro	2207	2237	2237	2241	2402	4418
Nuclear	..	..	..	..	..	..
Other	2	2	23	48	47	47
Main activity	4083	4323	4308	4434	4569	6517
Combustible fuels	1947	2160	2125	2220	2248	2179
Hydro	2134	2161	2161	2166	2274	4291
Nuclear	..	..	..	..	..	..
Other	2	2	23	48	47	47
Combustible fuel input	Terajoules					
Biogas	12	10	216	342	479	282
Crude oil	8701	9304	10476	10680	10408	13905
Motor gasoline	1818	11	334	0	0	..
Gas-diesel oil	23867	19279	24463	25709	29423	25669
Fuel oil	37901	44567	49002	52566	47857	35453
Liquefied petroleum gas	655	584	543	739	676	770
Other oil products	4865	4682	4578	5165	8377	7067
Natural gas	17424	22861	25450	26224	25306	25757
Bagasse	8218	8667	8443	11174	11617	11914
Total input	103461	109965	123506	132601	134143	120817
Total production	33867	38187	43780	45911	45789	39124
Estimated efficiency (% of production to input)	33	35	35	35	34	32

Statistics on electricity
Egypt

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	161162	164628	168050	180377	187479	199927
Combustible fuels	146224	150010	153252	164864	172449	184241
Hydro	12934	13121	13352	13822	13432	13460
Nuclear	..	..	..	..	..	..
Other	2004	1497	1446	1691	1598	2226
Main activity	157406	159223	162548	174875	181977	194327
Combustible fuels	142468	144605	147750	159362	166947	178641
Hydro	12934	13121	13352	13822	13432	13460
Nuclear	..	..	..	..	..	..
Other	2004	1497	1446	1691	1598	2226
Own use in electricity, CHP and heat plants	5226	5405	5502	11407	11840	12075
Net production	155936	159223	162548	168970	175639	187852
Imports	102	77	61	51	43	54
Exports	1679	474	460	730	1158	747
Losses	16342	18305	24224	20724	20389	23037
Consumption	135838	140257	137591	146645	154205	162275
Energy industries own use	..	..	..	..	..	..
By industry and construction	42098	39887	37320	38242	39187	40316
By transport	..	506	441	515	601	582
By households and other cons.	93740	99864	99830	107888	114417	121377
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	29997	31487	32702	35907	39544	45695
Combustible fuels	26275	28000	29215	32420	35857	42008
Hydro	3035	2800	2800	2800	2800	2800
Nuclear	..	..	..	..	..	..
Other	687	687	687	687	887	887
Main activity	29310	30800	32015	35220	38857	45008
Combustible fuels	25588	27313	28528	31733	35170	41321
Hydro	3035	2800	2800	2800	2800	2800
Nuclear	..	..	..	..	..	..
Other	687	687	687	687	887	887
Combustible fuel input	Terajoules					
Gas-diesel oil	2580	4257	*4257	19479	50654	*53879
Fuel oil	184507	265913	315686	348612	361903	294152
Natural gas	1061998	1068359	1009816	1023897	1067300	1182860
Total input	1249085	1338529	1329759	1391988	1479857	1530891
Total production	526406	540036	551707	593510	620816	663268
Estimated efficiency (% of production to input)	42	40	41	43	42	43

Statistics on electricity
El Salvador

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	6083	6237	6272	6223	5989	5984
Combustible fuels	2538	2855	2922	2947	3096	3147
Hydro	2011	1847	1790	1718	1353	1261
Nuclear	..	..	..	..	..	..
Other	1534	1535	1560	1558	1540	1576
Main activity	5490	5541	5612	5569	5284	5243
Combustible fuels	1945	2159	2262	2293	2391	2406
Hydro	2011	1847	1790	1718	1353	1261
Nuclear	..	..	..	..	..	..
Other	1534	1535	1560	1558	1540	1576
Own use in electricity, CHP and heat plants	300	309	363	344	353	301
Net production	5783	5928	5909	5879	5636	5683
Imports	216	163	283	589	963	1066
Exports	102	78	91	208	64	78
Losses	728	610	455	705	678	890
Consumption	5169	5383	5647	5608	5734	5722
Energy industries own use	..	..	..	..	..	..
By industry and construction	2287	1741	2197	2231	2109	1778
By transport	..	..	..	..	..	..
By households and other cons.	2882	3642	3450	3377	3625	3944
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1477	1478	1537	1563	1660	1660
Combustible fuels	801	801	860	886	983	983
Hydro	472	473	473	473	473	473
Nuclear	..	..	..	..	..	..
Other	204	204	204	204	204	204
Main activity	1284	1285	1344	1370	1371	1371
Combustible fuels	608	608	667	693	694	694
Hydro	472	473	473	473	473	473
Nuclear	..	..	..	..	..	..
Other	204	204	204	204	204	204
Combustible fuel input	Terajoules					
Biogas	..	..	526	409	588	497
Gas-diesel oil	86	215	129	43	0	..
Fuel oil	18463	18988	21008	21331	20644	20402
Bagasse	5343	12347	7495	7640	11525	11247
Total input	23892	31550	29158	29423	32757	32146
Total production	9137	10278	10519	10609	11146	11329
Estimated efficiency (% of production to input)	38	33	36	36	34	35

Statistics on electricity

Equatorial Guinea

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	285	529	726	833	848	*850
Combustible fuels	271	462	599	633	648	*650
Hydro	14	67	127	*200	*200	*200
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	285	529	726	833	848	*850
Combustible fuels	271	462	599	633	648	*650
Hydro	14	67	127	*200	*200	*200
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	285	529	726	833	848	*850
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*28	*53	*73	*90	*95	*96
Consumption	*257	*476	*653	*743	*753	*754
Energy industries own use	*35	*35	*35	*35	*35	*35
By industry and construction	*80	*130	*150	*190	*210	*231
By transport	..	..	..	..	..	..
By households and other cons.	*142	*311	*468	*518	*508	*488
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	80	349	349	349	349	349
Combustible fuels	74	222	222	222	222	222
Hydro	6	127	127	127	127	127
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	80	349	349	349	349	349
Combustible fuels	74	222	222	222	222	222
Hydro	6	127	127	127	127	127
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	*86	*86	*86	*86	*86	*86
Natural gas	*2700	*4200	*5500	*5700	*5900	*5900
Total input	*2786	*4286	*5586	*5786	*5986	*5986
Total production	975	1663	2155	2279	2334	*2340
Estimated efficiency (% of production to input)	35	39	39	39	39	39

Statistics on electricity

Eritrea

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	337	359	363	388	406	421
Combustible fuels	335	357	361	386	404	419
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	2	2	2	2
Main activity	326	348	352	377	395	410
Combustible fuels	324	346	350	375	393	408
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	2	2	2	2
Own use in electricity, CHP and heat plants	16	17	17	19	20	21
Net production	321	342	346	369	386	400
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	50	57	51	55	54	62
Consumption	271	285	295	314	332	338
Energy industries own use	..	..	..	..	..	..
By industry and construction	70	75	81	90	99	88
By transport	..	..	..	..	..	..
By households and other cons.	201	210	214	224	233	250
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*141	*141	*141	*141	*161	*161
Combustible fuels	*139	*139	*139	*139	*159	*159
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	2	2	2	2
Main activity	*135	*135	*135	*135	*151	*151
Combustible fuels	*133	*133	*133	*133	*149	*149
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	2	2	2	2
Combustible fuel input	Terajoules					
Gas-diesel oil	1333	1419	1419	1548	1634	1677
Fuel oil	2464	2626	2666	2828	2949	3070
Total input	3797	4045	4085	4376	4583	4747
Total production	1206	1285	1300	1390	1454	1508
Estimated efficiency (% of production to input)	32	32	32	32	32	32

Statistics on electricity

Estonia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	12893	11967	13275	12446	10417	12176
Combustible fuels	12495	11491	12720	11815	9675	11547
Hydro	30	42	26	27	27	35
Nuclear	..	..	..	..	..	..
Other	368	434	529	604	715	594
Main activity	12788	11869	13184	12389	10260	11937
Combustible fuels	12390	11394	12634	11773	9532	11321
Hydro	30	42	26	26	27	35
Nuclear	..	..	..	..	..	..
Other	368	433	524	590	701	581
Own use in electricity, CHP and heat plants	1226	1440	1452	1433	1355	1752
Net production	11667	10527	11823	11013	9062	10424
Imports	1690	2710	2712	3730	5452	3577
Exports	5252	4950	6300	6484	6377	5614
Losses	949	879	903	842	697	723
Consumption	7156	7408	7332	7417	7440	7824
Energy industries own use	529	430	512	511	588	525
By industry and construction	2046	2187	2156	2117	2059	2152
By transport	80	79	63	50	47	48
By households and other cons.	4501	4712	4601	4739	4746	5099
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2825	2923	2910	3030	2857	2567
Combustible fuels	2640	2649	2654	2750	2551	2251
Hydro	5	8	8	5	6	6
Nuclear	..	..	..	..	..	..
Other	180	266	248	275	300	310
Main activity	2806	2904	2892	3006	2826	2536
Combustible fuels	2621	2630	2637	2733	2526	2226
Hydro	5	8	8	5	6	6
Nuclear	..	..	..	..	..	..
Other	180	266	247	268	294	304
Combustible fuel input	Terajoules					
Hard Coal	0	0	54	54	0	..
Peat	1056	1230	920	690	759	919
Biogas	93	92	200	191	367	233
Oil shale	124378	111401	137372	129157	108702	112588
Gas-diesel oil	0	0	0	0	0	..
Fuel oil	364	687	929	485	687	1656
Natural gas	3026	1411	779	564	526	575
Gasworks gas	5415	4866	3899	5228	5039	5250
Fuelwood	*7404	*9978	*9108	*9940	*10240	*11282
Municipal waste	..	..	1336	1455	1760	1945
Total input	141735	129665	154597	147764	128080	134448
Total production	44982	41368	45792	42534	34830	41569
Estimated efficiency (% of production to input)	32	32	30	29	27	31

Statistics on electricity

Eswatini

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	654	*622	*590	567	*496	388
Combustible fuels	*321	*350	*350	265	*265	265
Hydro	333	272	240	302	231	123
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	333	280	248	302	231	123
Combustible fuels	0	8	*8	0	0	0
Hydro	333	272	240	302	231	123
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	15	15	15	0	*10	31
Net production	639	*607	*575	567	*486	357
Imports	806	813	822	860	980	1077
Exports	..	..	..	..	..	..
Losses	161	175	169	171	*170	172
Consumption	1283	1246	1227	1256	1296	1262
Energy industries own use	..	..	..	..	..	..
By industry and construction	360	338	319	336	366	364
By transport	..	..	..	..	..	..
By households and other cons.	923	908	909	920	930	899
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*159	179	*179	*188	*188	*188
Combustible fuels	*95	115	*115	*115	*115	*115
Hydro	64	64	64	73	*73	73
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	70	70	70	79	*79	79
Combustible fuels	10	10	10	10	10	10
Hydro	60	60	60	69	*69	69
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Hard Coal	*253	*338	..	..	155	258
Brown Coal	..	..	476	436	*490	*490
Gas-diesel oil	*473	*473	*473	0	0	..
Fuelwood	..	0	0	0	0	0
Bagasse	*14232	*13606	*13606	*13637	*13830	*11776
Black liquor	0	0	0	0	0	0
Total input	*14958	*14417	*14555	*14073	*14475	*12524
Total production	*1156	*1258	*1260	954	*954	954
Estimated efficiency (% of production to input)	8	9	9	7	7	8

Statistics on electricity

Ethiopia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	6336	7608	8719	9534	10437	11226
Combustible fuels	37	12	8	3	4	4
Hydro	6262	7388	8338	9013	9674	10406
Nuclear	..	..	..	..	..	..
Other	37	208	373	518	759	816
Main activity	6336	7608	8719	9534	10437	11226
Combustible fuels	37	12	8	3	4	4
Hydro	6262	7388	8338	9013	9674	10406
Nuclear	..	..	..	..	..	..
Other	37	208	373	518	759	816
Own use in electricity, CHP and heat plants	190	244	278	304	313	337
Net production	6146	7364	8441	9230	10124	10889
Imports	..	..	..	..	..	..
Exports	332	563	954	712	166	179
Losses	1362	1512	1394	1858	1772	1906
Consumption	4370	5276	6087	6660	8334	8802
Energy industries own use	..	..	..	..	..	..
By industry and construction	1590	1943	2032	2556	2822	3035
By transport	..	..	..	..	..	..
By households and other cons.	2780	3333	4055	4104	5512	5767
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2310	2310	2311	2311	2414	4238
Combustible fuels	189	189	190	190	143	99
Hydro	1943	1943	1943	1943	1940	3808
Nuclear	..	..	..	..	..	..
Other	178	178	178	178	331	331
Main activity	2310	2310	2311	2311	2414	4238
Combustible fuels	189	189	190	190	143	99
Hydro	1943	1943	1943	1943	1940	3808
Nuclear	..	..	..	..	..	..
Other	178	178	178	178	331	331
Combustible fuel input	Terajoules					
Gas-diesel oil	559	172	129	43	43	43
Naphtha	89	134	..	45	..	..
Total input	648	306	129	88	43	43
Total production	133	43	29	11	14	14
Estimated efficiency (% of production to input)	21	14	22	12	33	33

Statistics on electricity

Faeroe Islands

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	274	292	293	305	314	317
Combustible fuels	167	181	180	150	126	159
Hydro	93	100	91	121	133	106
Nuclear	..	..	..	..	..	..
Other	15	11	22	34	56	52
Main activity	274	292	293	305	314	317
Combustible fuels	167	181	180	150	126	159
Hydro	93	100	91	121	133	106
Nuclear	..	..	..	..	..	..
Other	15	11	22	34	56	52
Own use in electricity, CHP and heat plants	7	7	8	7	7	7
Net production	267	285	285	298	308	310
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*12	*23	*10	*15	*20	*19
Consumption	255	261	275	284	288	291
Energy industries own use	..	..	..	..	..	..
By industry and construction	45	52	60	76	76	74
By transport	..	..	..	..	..	..
By households and other cons.	210	209	214	208	212	218
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	103	111	*115	*124	*128	*129
Combustible fuels	65	65	*65	*68	*69	*70
Hydro	32	*39	*39	*39	39	*39
Nuclear	..	..	..	..	..	..
Other	*7	*7	*11	*16	20	*20
Main activity	103	111	*115	*124	*128	*129
Combustible fuels	65	65	*65	*68	*69	*70
Hydro	32	*39	*39	*39	39	*39
Nuclear	..	..	..	..	..	..
Other	*7	*7	*11	*16	20	*20
Combustible fuel input	Terajoules					
Gas-diesel oil	43	28	44	50	56	80
Fuel oil	1477	1485	1506	1248	1040	1301
Total input	1520	1512	1549	1298	1096	1381
Total production	601	652	648	541	452	572
Estimated efficiency (% of production to input)	40	43	42	42	41	41

Statistics on electricity
Falkland Is. (Malvinas)

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*18	*18	*18	*18	*18	*18
Combustible fuels	*12	*11	*11	*11	*10	*9
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	6	7	7	*7	*8	*9
Main activity	*16	*16	*16	*16	*16	*16
Combustible fuels	*10	*9	*9	*9	*8	*7
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	6	7	7	*7	*8	*9
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
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	*12	*12	*12	*12	*12	*12
Combustible fuels	*9	*9	*9	*9	*9	*9
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*3	*3	*3	*3	*3	*3
Main activity	*10	*10	*10	*10	*10	*10
Combustible fuels	*7	*7	*7	*7	*7	*7
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*3	*3	*3	*3	*3	*3
Combustible fuel input	Terajoules					
Gas-diesel oil	*120	*112	*116	*112	*103	*99
Total input	*120	*112	*116	*112	*103	*99
Total production	*43	*40	*40	*40	*36	*32
Estimated efficiency (% of production to input)	36	35	34	35	35	33

Statistics on electricity

Fiji

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	801	803	858	859	914	934
Combustible fuels	340	271	325	454	503	435
Hydro	456	525	527	401	406	495
Nuclear	..	..	..	..	..	..
Other	5	7	5	4	6	4
Main activity	757	755	811	810	892	924
Combustible fuels	295	223	278	404	480	425
Hydro	456	525	527	401	406	495
Nuclear	..	..	..	..	..	..
Other	5	7	5	4	6	4
Own use in electricity, CHP and heat plants	9	8	9	23	8	11
Net production	792	795	848	836	906	924
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*42	*63	*68	*70	75	*77
Consumption	767	732	780	783	826	842
Energy industries own use	..	..	..	..	..	..
By industry and construction	198	192	202	200	206	211
By transport	..	..	..	..	..	..
By households and other cons.	569	540	578	583	620	631
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*260	285	309	309	294	*316
Combustible fuels	*120	*140	164	164	149	*165
Hydro	*129	135	135	135	135	130
Nuclear	..	..	..	..	..	..
Other	10	10	10	10	10	21
Main activity	*210	235	259	259	259	281
Combustible fuels	*70	*90	114	114	114	*130
Hydro	*129	135	135	135	135	130
Nuclear	..	..	..	..	..	..
Other	10	10	10	10	10	21
Combustible fuel input	Terajoules					
Hard coal briquettes	0	0	0	0	0	0
Gas-diesel oil	2322	1376	1291	2560	2602	1262
Fuel oil	727	1172	1616	1535	1758	2511
Total input	3049	2548	2907	4095	4360	3773
Total production	1223	977	1169	1634	1810	1566
Estimated efficiency (% of production to input)	40	38	40	40	42	42

Statistics on electricity
Finland

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	73501	70411	71257	68094	68597	68752
Combustible fuels	37083	29746	33744	29712	25999	26399
Hydro	12445	16859	12838	13397	16769	15799
Nuclear	23187	22987	23606	23580	23245	23203
Other	786	819	1069	1405	2584	3351
Main activity	62847	60156	61135	58000	58575	59239
Combustible fuels	27573	20955	24784	20735	17226	18122
Hydro	11496	15615	11859	12470	15690	14764
Nuclear	23187	22987	23606	23580	23245	23203
Other	591	599	886	1215	2414	3150
Own use in electricity, CHP and heat plants	3088	2704	2904	2636	2444	2554
Net production	70413	67707	68353	65458	66153	66198
Imports	17656	19089	17591	21622	21459	22110
Exports	3804	1645	1876	3655	5122	3159
Losses	2698	2914	2609	2772	2444	2704
Consumption	81409	82029	81277	80427	79655	82057
Energy industries own use	1301	1310	1331	1284	1189	1227
By industry and construction	39241	38165	38697	38173	37893	38517
By transport	730	737	733	722	703	708
By households and other cons.	40137	41817	40516	40248	39870	41605
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	15680	16132	16707	16299	16612	16272
Combustible fuels	9562	9939	10275	9661	9591	8659
Hydro	3196	3196	3224	3248	3249	3249
Nuclear	2716	2732	2752	2752	2752	2764
Other	206	265	456	638	1020	1600
Main activity	13615	14098	14638	14228	14563	14207
Combustible fuels	7699	8080	8401	7787	7743	6814
Hydro	3001	3029	3038	3062	3063	3063
Nuclear	2716	2732	2752	2752	2752	2764
Other	199	257	447	627	1005	1566
Combustible fuel input	Terajoules					
Hard Coal	99982	80119	110621	83563	59016	78495
Peat	66826	49985	43441	43898	40652	38934
Biogas	1133	953	2387	2800	3000	3361
Fuel oil	3636	3111	2707	2707	2949	1576
Natural gas	82347	63266	59170	46749	42836	33907
Blast furnace gas	5642	4866	4597	5597	5302	5234
Fuelwood	*91259	*94658	*97627	*93962	*90537	*94720
Municipal waste	6971	9365	12215	13468	14865	16992
Industrial waste	812	935	1071	1083	927	989
Black liquor	*18691	*17487	*20040	*13943	*11248	*7500
Others	1396	2088	2609	2500	2306	1796
Total input	378696	326833	356485	310271	273638	283504
Total production	133499	107086	121478	106963	93596	95036
Estimated efficiency (% of production to input)	35	33	34	34	34	34

Statistics on electricity

France

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	564985	564475	573846	564154	570323	556184
Combustible fuels	57593	55374	52331	34733	43798	57471
Hydro	49865	63595	75867	68627	59401	64889
Nuclear	442388	425406	423685	436479	437428	403195
Other	15139	20100	21963	24315	29696	30629
Main activity	548534	546943	555706	545678	551192	537031
Combustible fuels	44218	42285	39435	22123	30904	44467
Hydro	49393	62957	75157	67883	58806	64231
Nuclear	442388	425406	423685	436479	437428	403195
Other	12535	16295	17429	19193	24054	25138
Own use in electricity, CHP and heat plants	25187	24445	23887	23429	23845	23241
Net production	539798	540030	549959	540725	546478	532943
Imports	9501	12213	11687	7873	9961	19903
Exports	65914	56734	60148	75063	74024	61404
Losses	36195	37104	38016	33795	35397	36778
Consumption	444522	458301	464046	438828	447995	455920
Energy industries own use	20353	15517	13669	14515	13324	13548
By industry and construction	120643	120006	118649	117293	116450	116971
By transport	10810	11001	11124	10828	10987	10784
By households and other cons.	292716	311777	320604	296192	307234	314617
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	125281	128429	128266	127791	129939	130794
Combustible fuels	27096	28162	26404	24387	24318	23138
Hydro	25372	25390	25381	25315	25299	25517
Nuclear	63130	63130	63130	63130	63130	63130
Other	9683	11747	13351	14959	17192	19009
Main activity	118706	120886	120566	119684	121573	122077
Combustible fuels	22996	23997	22396	20479	20393	19109
Hydro	25180	25190	25182	25120	25098	25314
Nuclear	63130	63130	63130	63130	63130	63130
Other	7400	8569	9858	10955	12952	14524
Combustible fuel input	Terajoules					
Hard Coal	147370	198261	220192	99922	100169	85205
Biogas	16386	17948	20210	19824	23665	23311
Fuel oil	22422	23876	14463	10221	10060	10464
Refinery gas	14751	13167	13365	9554	8465	10395
Natural gas	250368	208856	161518	117264	178370	270786
Blast furnace gas	17094	20768	20097	24767	23476	17753
Fuelwood	*15731	*13892	*16941	*24497	*27356	*36899
Vegetal waste	*2588	*5510	*7753	*6023	*6795	*8756
Municipal waste	77218	82366	78660	75590	80224	81934
Black liquor	*33839	*19996	*14374	*13991	*10489	*13363
Others	17204	21762	20850	23534	23975	22200
Total input	614971	626402	588423	425187	493043	581065
Total production	207335	199346	188392	125039	157673	206896
Estimated efficiency (% of production to input)	34	32	32	29	32	36

Statistics on electricity
French Guiana

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	873	874	883	911	923	967
Combustible fuels	373	266	349	359	377	440
Hydro	469	556	490	500	493	463
Nuclear	..	..	..	..	..	..
Other	31	52	44	52	53	64
Main activity	873	874	883	911	923	967
Combustible fuels	373	266	349	359	377	440
Hydro	469	556	490	500	493	463
Nuclear	..	..	..	..	..	..
Other	31	52	44	52	53	64
Own use in electricity, CHP and heat plants	37	21	25	48	41	40
Net production	836	853	858	863	882	927
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	87	90	89	88	89	92
Consumption	749	764	769	776	793	835
Energy industries own use	..	..	..	..	..	..
By industry and construction	22	23	45	42	42	44
By transport	1	0	..	..	..	..
By households and other cons.	726	741	724	734	751	791
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	247	290	292	292	297	298
Combustible fuels	129	138	140	140	140	138
Hydro	118	118	119	119	119	115
Nuclear	..	..	..	..	..	..
Other	0	34	33	33	38	45
Main activity	247	290	292	292	297	298
Combustible fuels	129	138	140	140	140	138
Hydro	118	118	119	119	119	115
Nuclear	..	..	..	..	..	..
Other	0	34	33	33	38	45
Combustible fuel input	Terajoules					
Gas-diesel oil	*860	301	495	430	*473	*495
Fuel oil	2828	2291	3697	3434	3987	*4444
Fuelwood	*216	*207	*230	*216	*207	*209
Total input	3904	2799	4421	4080	4668	*5148
Total production	1343	958	1256	1292	1357	1584
Estimated efficiency (% of production to input)	34	34	28	32	29	31

Statistics on electricity
French Polynesia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*663	*665	*645	*630	*628	*639
Combustible fuels	*444	*459	*450	*409	*405	*395
Hydro	*214	*199	*186	*209	*209	*230
Nuclear	..	..	..	..	..	..
Other	*5	*8	*9	*13	*14	*14
Main activity	*663	*665	*645	*630	*628	*639
Combustible fuels	*444	*459	*450	*409	*405	*395
Hydro	*214	*199	*186	*209	*209	*230
Nuclear	..	..	..	..	..	..
Other	*5	*8	*9	*13	*14	*14
Own use in electricity, CHP and heat plants	0	0	*1	*1	0	0
Net production	*663	*665	*644	*629	*628	*639
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*45	*46	*46	*44	*44	*45
Consumption	*618	*619	*598	*585	*584	*582
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*618	*619	*598	*585	*584	*582
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*227	*228	*228	*230	*230	*258
Combustible fuels	*177	*177	*177	*177	*177	*185
Hydro	*47	*47	*48	*48	*48	*48
Nuclear	..	..	..	..	..	..
Other	*3	*4	*4	*5	*6	25
Main activity	*227	*228	*228	*230	*230	*258
Combustible fuels	*177	*177	*177	*177	*177	*185
Hydro	*47	*47	*48	*48	*48	*48
Nuclear	..	..	..	..	..	..
Other	*3	*4	*4	*5	*6	25
Combustible fuel input	Terajoules					
Gas-diesel oil	*3008	*2869	*2937	*2884	*3016	*3423
Fuel oil	*1405	*1405	*1420	*1364	*1412	*1293
Total input	*4413	*4274	*4357	*4248	*4427	*4716
Total production	*1598	*1652	*1620	*1472	*1458	*1422
Estimated efficiency (% of production to input)	36	39	37	35	33	30

Statistics on electricity
Gabon

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	2042	2165	2101	1999	2128	2336
Combustible fuels	1202	1254	1163	1203	1208	1381
Hydro	840	908	936	794	918	953
Nuclear	..	..	..	..	..	..
Other	..	3	2	2	2	2
Main activity	1838	1966	1891	1784	1907	2112
Combustible fuels	998	1058	955	990	989	1159
Hydro	840	908	936	794	918	953
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	67	75	74	99	95	102
Net production	1975	2090	2027	1900	2033	2234
Imports	..	..	184	388	337	344
Exports	..	..	..	..	..	..
Losses	404	426	454	453	476	517
Consumption	1571	1664	1757	1835	1894	2061
Energy industries own use	34	36	38	40	41	45
By industry and construction	418	441	466	487	502	546
By transport	6	7	7	7	7	8
By households and other cons.	1113	1180	1246	1301	1344	1462
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	443	464	514	509	511	523
Combustible fuels	273	293	343	338	340	352
Hydro	170	170	170	170	170	170
Nuclear	..	..	..	..	..	..
Other	..	*1	*1	*1	*1	*1
Main activity	373	393	443	438	440	452
Combustible fuels	203	223	273	268	270	282
Hydro	170	170	170	170	170	170
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	2408	2451	3053	2580	2709	2623
Fuel oil	40	40	40	81	..	..
Natural gas	13488	13569	10970	12146	13264	15034
Fuelwood	*285	*292	*299	*301	*320	352
Total input	16221	16352	14362	15108	16293	18009
Total production	4327	4514	4187	4331	4349	4972
Estimated efficiency (% of production to input)	27	28	29	29	27	28

Statistics on electricity

Gambia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*256	*266	*261	*281	*297	*314
Combustible fuels	*256	*266	*261	*281	*297	*314
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*226	*236	*230	*250	*266	*282
Combustible fuels	*226	*236	*230	*250	*266	*282
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	*4	*21	*12	*11	*11	*11
Net production	*251	*245	*249	*270	*286	*303
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*50	*52	*52	*52	*55	*58
Consumption	*199	*208	*209	*209	*221	*233
Energy industries own use	..	..	..	..	..	..
By industry and construction	*34	*35	*35	*35	*37	*39
By transport	..	..	..	..	..	..
By households and other cons.	*166	*173	*174	*173	*184	*194
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*74	*74	*91	116	*118	*119
Combustible fuels	*74	*74	*91	114	*116	*117
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	2	*2	*2
Main activity	*40	*40	*57	82	*83	*84
Combustible fuels	*40	*40	*57	80	*81	*82
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	2	*2	*2
Combustible fuel input	Terajoules					
Gas-diesel oil	*1978	*2021	*2021	*2150	*2215	*2305
Fuel oil	*808	*808	*808	*808	*808	*840
Total input	*2786	*2829	*2829	*2958	*3023	*3145
Total production	*921	*959	*939	*1011	*1070	*1129
Estimated efficiency (% of production to input)	33	34	33	34	35	36

Statistics on electricity
Georgia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	10104	9698	10059	10371	10833	11574
Combustible fuels	2212	2477	1788	2036	2379	2236
Hydro	7892	7221	8271	8335	8454	9329
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	9
Main activity	10104	9698	10059	10371	10833	11574
Combustible fuels	2212	2477	1788	2036	2379	2236
Hydro	7892	7221	8271	8335	8454	9329
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	9
Own use in electricity, CHP and heat plants	87	226	199	217	240	289
Net production	10017	9472	9860	10154	10592	11285
Imports	471	615	484	853	699	1329
Exports	931	528	450	604	660	1409
Losses	1142	1094	805	600	711	784
Consumption	8511	8452	9089	9801	9921	10501
Energy industries own use	423	284	15	17	14	14
By industry and construction	2963	2876	2327	2816	2752	2902
By transport	373	405	282	267	294	301
By households and other cons.	4752	4887	6465	6701	6861	7284
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*4350	*4350	3471	3471	3718	3919
Combustible fuels	*1688	*1688	680	680	913	926
Hydro	*2662	*2662	2791	2791	2805	2972
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	21
Main activity	*4350	*4350	3471	3471	3718	3919
Combustible fuels	*1688	*1688	680	680	913	926
Hydro	*2662	*2662	2791	2791	2805	2972
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	21
Combustible fuel input	Terajoules					
Brown Coal	..	..	..	..	..	451
Gas-diesel oil	516	0	0	0	0	0
Natural gas	19858	22588	18869	22345	25252	20284
Total input	20374	22588	18869	22345	25252	20735
Total production	7963	8917	6437	7330	8563	8048
Estimated efficiency (% of production to input)	39	39	34	33	34	39

Statistics on electricity

Germany

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	613068	629812	638729	627795	646888	649119
Combustible fuels	410773	423424	428094	409688	410315	419591
Hydro	23511	27849	28782	25444	24898	26135
Nuclear	107971	99460	97290	97129	91786	84634
Other	70813	79079	84563	95534	119889	118759
Main activity	562454	585718	593837	582345	596674	594256
Combustible fuels	362124	381003	384628	365814	361482	366194
Hydro	23184	27499	28600	25282	24741	25959
Nuclear	107971	99460	97290	97129	91786	84634
Other	69175	77756	83319	94120	118665	117469
Own use in electricity, CHP and heat plants	36152	37072	36912	35843	36813	34964
Net production	576916	592740	601817	591952	610075	614155
Imports	51003	46268	39222	40435	37008	28338
Exports	54768	66810	71415	74320	85290	78863
Losses	24799	24562	24474	24159	25605	25759
Consumption	548352	547637	545150	533907	536188	537871
Energy industries own use	22806	21803	21949	21072	21457	20494
By industry and construction	229805	226239	224269	228773	224880	226598
By transport	12151	12084	11985	11594	11279	11739
By households and other cons.	283590	287511	286947	272468	278572	279040
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	176426	178400	185308	197501	203419	208500
Combustible fuels	89421	89649	91368	97203	96967	95716
Hydro	11436	11257	11240	11234	11399	11300
Nuclear	20467	12068	12068	12074	10799	10799
Other	55102	65426	70632	76990	84254	90685
Main activity	166671	171381	175689	187694	192701	197912
Combustible fuels	80050	82912	82072	87747	86552	85409
Hydro	11367	11185	11198	11190	11356	11257
Nuclear	20467	12068	12068	12074	10799	10799
Other	54787	65216	70351	76683	83994	90447
Combustible fuel input	Terajoules					
Hard Coal	1075457	1130473	1254261	1162815	1127187	1090750
Brown Coal	1447201	1531986	1509182	1468554	1460006	1411719
Biogas	148398	190358	214517	228266	241313	249983
Other oil products	25406	29386	28462	22110	26452	21507
Natural gas	771794	692263	616961	555763	555451	707551
Coke-oven gas	14634	17104	19258	17522	22759	24647
Blast furnace gas	68853	67615	73193	69845	69659	73166
Fuelwood	*125705	*135851	*131071	*135878	*127284	121458
Municipal waste	148154	156878	177360	189580	179782	194092
Industrial waste	25193	25478	19234	22477	21594	22892
Others	59848	67565	61577	56800	58347	59799
Total input	3910643	4044957	4105075	3929610	3889832	3977564
Total production	1478783	1524326	1541138	1474877	1477134	1510528
Estimated efficiency (% of production to input)	38	38	38	38	38	38

Statistics on electricity
Ghana

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	11366	12204	13050	13143	11672	13203
Combustible fuels	3805	4133	4814	4752	5824	7615
Hydro	7561	8071	8233	8387	5845	5561
Nuclear	..	..	..	..	..	..
Other	..	..	3	4	3	27
Main activity	11200	12024	12870	12963	11492	13023
Combustible fuels	3639	3953	4634	4572	5644	7435
Hydro	7561	8071	8233	8387	5845	5561
Nuclear	..	..	..	..	..	..
Other	..	..	3	4	3	27
Own use in electricity, CHP and heat plants	166	180	180	180	180	226
Net production	11200	12024	12870	12963	11492	12977
Imports	81	128	27	51	223	574
Exports	691	667	530	522	587	274
Losses	1587	1435	1661	1739	1406	1845
Consumption	8974	9906	10636	10694	9684	11418
Energy industries own use	..	..	..	..	..	..
By industry and construction	2933	3160	3284	3262	2566	2988
By transport	0	3	4	4	4	6
By households and other cons.	6041	6743	7348	7428	7114	8424
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2800	2910	3041	3041	3866	4005
Combustible fuels	1620	1730	1458	1458	2263	2402
Hydro	1180	1180	1580	1580	1580	1580
Nuclear	..	..	..	..	..	..
Other	0	0	3	3	23	23
Main activity	2590	2700	2831	2831	3656	3795
Combustible fuels	1410	1520	1248	1248	2053	2192
Hydro	1180	1180	1580	1580	1580	1580
Nuclear	..	..	..	..	..	..
Other	0	0	3	3	23	23
Combustible fuel input	Terajoules					
Crude oil	11421	32613	37393	25211	12394	20431
Gas-diesel oil	280	585	228	65	43	1871
Fuel oil	..	..	..	..	..	14920
Natural gas	31912	16294	11815	25805	46315	21658
Total input	43612	49492	49437	51080	58752	58879
Total production	13698	14879	17330	17107	20966	27414
Estimated efficiency (% of production to input)	31	30	35	33	36	47

Statistics on electricity

Gibraltar

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	171	176	189	198	224	254
Combustible fuels	171	176	189	198	224	254
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	171	176	189	198	224	254
Combustible fuels	171	176	189	198	224	254
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	3	4	4	4	4	5
Net production	168	172	185	194	220	249
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	5	5	6	6	7	8
Consumption	163	167	179	188	213	241
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	163	167	179	188	213	241
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	43	43	43	43	*48	*53
Combustible fuels	43	43	43	43	*48	*53
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	43	43	43	43	*48	*53
Combustible fuels	43	43	43	43	*48	*53
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Fuel oil	1697	1737	1858	1939	2222	2505
Total input	1697	1737	1858	1939	2222	2505
Total production	616	634	680	713	806	914
Estimated efficiency (% of production to input)	36	36	37	37	36	37

Statistics on electricity

Greece

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	59436	60959	57152	50474	51874	54438
Combustible fuels	51236	50824	42981	38386	37203	39797
Hydro	4275	4591	6384	4607	6150	5565
Nuclear	..	..	..	..	..	..
Other	3925	5544	7787	7481	8521	9076
Main activity	56883	58608	55267	48682	49534	52491
Combustible fuels	48683	48473	41096	36594	34863	37850
Hydro	4275	4591	6384	4607	6150	5565
Nuclear	..	..	..	..	..	..
Other	3925	5544	7787	7481	8521	9076
Own use in electricity, CHP and heat plants	5523	7305	4592	3772	4068	4211
Net production	53913	53654	52560	46702	47806	50227
Imports	7180	5954	5788	9461	11081	9833
Exports	3948	4169	3901	642	1473	1037
Losses	2820	1611	3895	4149	4895	3957
Consumption	54325	53828	50552	51372	52519	55066
Energy industries own use	2531	1811	1761	1872	1732	1703
By industry and construction	14640	11573	11366	12869	12668	11285
By transport	184	189	267	343	388	186
By households and other cons.	36970	40255	37158	36288	37731	41892
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	16524	17751	18855	18895	18942	19165
Combustible fuels	11048	11226	11229	10932	10855	10799
Hydro	3224	3236	3238	3389	3392	3392
Nuclear	..	..	..	..	..	..
Other	2252	3289	4388	4574	4695	4974
Main activity	15984	17229	18328	18390	18381	18597
Combustible fuels	10508	10704	10702	10427	10294	10231
Hydro	3224	3236	3238	3389	3392	3392
Nuclear	..	..	..	..	..	..
Other	2252	3289	4388	4574	4695	4974
Combustible fuel input	Terajoules					
Hard Coal	813	54	27	..	..	..
Brown Coal	320533	331017	283513	271373	226190	174176
Biogas	2366	3072	2975	2961	3138	3623
Gas-diesel oil	12943	11438	10019	10320	11137	11911
Fuel oil	37128	37774	34623	35754	35592	25816
Liquefied petroleum gas	1750	1419	189	142	..	2034
Refinery gas	9356	10692	9455	11435	16781	14850
Natural gas	111198	103109	91617	59593	61257	103888
Industrial waste	1175	625	883	868	1030	1364
Total input	497261	499200	433301	392445	355125	337662
Total production	184450	182966	154732	138190	133931	143269
Estimated efficiency (% of production to input)	37	37	36	35	38	42

Statistics on electricity
Greenland

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	452	459	473	488	520	484
Combustible fuels	114	115	95	92	97	83
Hydro	338	345	378	396	423	401
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	452	459	473	488	520	484
Combustible fuels	114	115	95	92	97	83
Hydro	338	345	378	396	423	401
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	22	7	23	12	12	1
Net production	430	452	450	476	509	483
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	94	142	132	110	110	*105
Consumption	388	384	392	406	420	410
Energy industries own use	..	..	..	..	..	..
By industry and construction	130	128	134	136	141	*135
By transport	..	..	..	..	..	..
By households and other cons.	258	257	258	270	280	275
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*174	*172	*187	187	*187	*187
Combustible fuels	*106	*96	*96	96	*96	*96
Hydro	*68	76	91	91	91	91
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*158	*156	171	171	171	171
Combustible fuels	*90	*80	*80	80	*80	*80
Hydro	*68	76	91	91	91	91
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	1407	1463	1213	1261	1441	1183
Municipal waste	91	103	117	92	98	94
Total input	1498	1566	1330	1353	1538	1277
Total production	409	413	343	330	350	299
Estimated efficiency (% of production to input)	27	26	26	24	23	23

Statistics on electricity

Grenada

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	204	200	197	200	207	219
Combustible fuels	204	200	197	200	207	219
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	204	200	197	200	207	217
Combustible fuels	204	200	197	200	207	217
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	7	7	6	6	6	12
Net production	197	193	191	194	201	207
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	16	15	15	15	17	18
Consumption	181	179	176	179	184	189
Energy industries own use	..	..	..	..	..	..
By industry and construction	6	6	6	6	6	5
By transport	..	..	..	..	..	..
By households and other cons.	175	173	170	173	178	184
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	50	49	49	49	49	49
Combustible fuels	50	49	49	49	49	49
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	50	49	49	49	49	48
Combustible fuels	50	49	49	49	49	48
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	1811	2099	2558	1642	1823	1944
Total input	1811	2099	2558	1642	1823	1944
Total production	734	719	708	720	745	787
Estimated efficiency (% of production to input)	41	34	28	44	41	40

Statistics on electricity
Guadeloupe

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1692	1726	1729	1734	1781	1791
Combustible fuels	1543	1519	1474	1475	1523	1526
Hydro	15	14	19	27	21	34
Nuclear	..	..	..	..	..	..
Other	134	193	237	233	236	231
Main activity	1637	1664	1684	1673	1724	1742
Combustible fuels	1488	1457	1428	1414	1467	1476
Hydro	15	14	19	27	21	34
Nuclear	..	..	..	..	..	..
Other	134	193	237	233	236	231
Own use in electricity, CHP and heat plants	0	0	0	0	22	0
Net production	1692	1726	1729	1734	1759	1791
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*200	219	219	226	255	232
Consumption	*1492	1507	1511	1510	1504	*1556
Energy industries own use	..	..	..	..	..	..
By industry and construction	*70	64	66	86	85	*88
By transport	..	..	..	..	..	..
By households and other cons.	*1422	1443	1445	1424	1419	*1468
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	527	554	557	557	573	554
Combustible fuels	419	439	439	439	456	430
Hydro	8	9	9	9	9	11
Nuclear	..	..	..	..	..	..
Other	*100	106	109	109	109	113
Main activity	467	494	497	497	514	495
Combustible fuels	359	380	380	380	396	370
Hydro	8	9	9	9	9	11
Nuclear	..	..	..	..	..	..
Other	*100	106	109	109	109	113
Combustible fuel input	Terajoules					
Hard Coal	*5160	*5805	*5805	*5805	*5304	*5895
Gas-diesel oil	*2580	*1290	*1290	*1376	*968	*301
Fuel oil	*7393	*6545	*7959	*6779	*7777	*7013
Bagasse	*1274	*1390	*1506	*1622	1737	*1737
Total input	*16407	*15030	*16560	*15582	*15786	*14947
Total production	5554	5468	5305	5308	5484	5494
Estimated efficiency (% of production to input)	34	36	32	34	35	37

Statistics on electricity

Guam

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*1858	1784	1736	*1718	*1702	*1720
Combustible fuels	*1858	1784	1736	*1718	*1680	*1668
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	22	52
Main activity	*1858	1784	1736	*1718	*1702	*1720
Combustible fuels	*1858	1784	1736	*1718	*1680	*1668
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	22	52
Own use in electricity, CHP and heat plants	*112	0	86	*86	*83	65
Net production	*1746	1784	1650	*1633	*1619	*1655
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*128	214	101	*84	79	81
Consumption	1618	1564	1550	1533	1540	1574
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	1618	1564	1550	1533	1540	1574
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	552	552	552	552	498	498
Combustible fuels	552	552	552	552	472	472
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	26	26
Main activity	552	552	552	552	498	498
Combustible fuels	552	552	552	552	472	472
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	26	26
Combustible fuel input	Terajoules					
Total input	..	..	..	..	..	..
Total production	*6689	6422	6251	*6186	*6049	*6004
Estimated efficiency (% of production to input)	..	..	..	..	..	..

Statistics on electricity
Guatemala

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	8798	9337	10125	10638	11157	11789
Combustible fuels	4376	4634	5254	5531	6769	7122
Hydro	4175	4457	4659	4853	3880	3971
Nuclear	..	..	..	..	..	..
Other	246	246	212	254	508	696
Main activity	8189	8703	9270	9782	10302	10878
Combustible fuels	3790	4023	4427	4703	5942	6231
Hydro	4153	4435	4631	4825	3852	3951
Nuclear	..	..	..	..	..	..
Other	246	246	212	254	508	696
Own use in electricity, CHP and heat plants	651	632	754	855	747	868
Net production	8147	8705	9371	9783	10410	10921
Imports	511	226	267	708	585	747
Exports	193	196	588	1207	1087	1335
Losses	318	324	314	330	333	383
Consumption	7688	8409	8635	8953	9466	9907
Energy industries own use	..	..	..	..	..	..
By industry and construction	3122	3240	3093	3329	3547	3621
By transport	..	..	..	..	..	..
By households and other cons.	4566	5169	5542	5624	5919	6286
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2510	2386	2525	2626	3139	3442
Combustible fuels	1570	1409	1537	1624	1905	1942
Hydro	891	945	955	964	1039	1306
Nuclear	..	..	..	..	..	..
Other	49	32	34	39	194	194
Main activity	2126	1952	1926	2152	2449	2737
Combustible fuels	1190	980	942	1154	1219	1241
Hydro	887	940	950	959	1035	1302
Nuclear	..	..	..	..	..	..
Other	49	32	34	39	194	194
Combustible fuel input	Terajoules					
Hard Coal	14209	16722	25198	27251	39065	45883
Gas-diesel oil	344	86	340	340	138	77
Fuel oil	16524	15716	19080	11966	13537	9328
Fuelwood	..	..	..	..	..	12
Bagasse	*72189	54524	52353	56283	55979	85152
Total input	*103266	87048	96970	95841	108719	140453
Total production	15754	16683	18914	19911	24370	25638
Estimated efficiency (% of production to input)	15	19	20	21	22	18

Statistics on electricity

Guernsey

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	85	68	289	227	157	87
Combustible fuels	85	68	289	227	157	87
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	85	68	289	227	157	87
Combustible fuels	85	68	289	227	157	87
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	85	68	289	227	157	87
Imports	309	313	111	156	218	285
Exports	..	..	..	..	..	..
Losses	*18	*18	*22	*21	*20	*20
Consumption	375	*363	*378	*362	*355	*352
Energy industries own use	..	..	..	..	..	..
By industry and construction	53	*50	*54	*51	*50	*50
By transport	..	..	..	..	..	..
By households and other cons.	322	*313	*325	*311	*304	*302
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	115	*115	*115	*115	*115	*115
Combustible fuels	115	*115	*115	*115	*115	*115
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	115	*115	*115	*115	*115	*115
Combustible fuels	115	*115	*115	*115	*115	*115
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	14	*49	*49	*49	*49	*43
Fuel oil	691	*606	*2424	*1903	*1329	*727
Total input	705	*655	*2473	*1951	*1378	*770
Total production	305	245	1040	818	565	315
Estimated efficiency (% of production to input)	43	37	42	42	41	41

Statistics on electricity

Guinea

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	554	728	654	712	1118	1596
Combustible fuels	140	238	172	287	238	512
Hydro	414	491	482	426	881	1084
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	548	728	627	552	945	1117
Combustible fuels	134	238	144	126	64	34
Hydro	414	491	482	426	881	1084
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	10	15	10	10	15	20
Net production	544	713	644	702	1103	1576
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*92	*109	*103	*107	*130	*160
Consumption	*454	*604	*541	*596	*966	*1405
Energy industries own use	..	..	..	..	..	..
By industry and construction	*145	*239	*197	*241	*450	*655
By transport	..	..	..	..	..	..
By households and other cons.	*309	*365	*344	*355	*516	*751
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	257	266	390	279	548	593
Combustible fuels	129	139	263	153	180	226
Hydro	128	128	127	125	367	367
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	205	214	338	227	496	444
Combustible fuels	77	87	211	101	128	77
Hydro	128	128	127	125	367	367
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	0	*1505	*860	*1806	*1290	*1720
Fuel oil	*1616	*1091	*1010	*1212	*1212	*3232
Total input	*1616	*2596	*1870	*3018	*2502	*4952
Total production	504	855	619	1032	855	1842
Estimated efficiency (% of production to input)	31	33	33	34	34	37

Statistics on electricity
Guinea-Bissau

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*33	*34	*35	*35	*36	*38
Combustible fuels	*33	*34	*35	*35	*36	*38
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*26	*26	*27	*27	*28	*30
Combustible fuels	*26	*26	*27	*27	*28	*30
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	*33	*34	*35	*35	*36	*38
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	..	..	..	..	..	..
Consumption	*33	*34	*35	*35	*36	*38
Energy industries own use	..	..	..	..	..	..
By industry and construction	*19	*20	*20	*20	*21	*22
By transport	..	..	..	..	..	..
By households and other cons.	*14	*15	*15	*15	*15	*16
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*27	*27	*27	*28	*28	*28
Combustible fuels	*27	*27	*27	*28	*28	*28
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*25	*25	*25	*26	*26	*26
Combustible fuels	*25	*25	*25	*26	*26	*26
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	*344	357	*366	*387	*396	*413
Total input	*344	357	*366	*387	*396	*413
Total production	*119	*123	*127	*127	*131	*136
Estimated efficiency (% of production to input)	35	35	35	33	33	33

Statistics on electricity
Guyana

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	910	942	962	979	1039	1081
Combustible fuels	910	942	962	979	1039	1081
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	605	658	660	778	749	789
Combustible fuels	605	658	660	778	749	789
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	130	128	28	29	30	31
Net production	780	815	934	951	1009	1050
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	263	242	230	215	219	224
Consumption	502	526	704	736	790	826
Energy industries own use	..	..	..	..	..	..
By industry and construction	153	158	235	306	307	321
By transport	..	..	..	..	..	..
By households and other cons.	348	368	469	430	483	505
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	349	363	382	380	380	400
Combustible fuels	349	363	382	380	380	400
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	129	135	143	145	145	152
Combustible fuels	129	135	143	145	145	152
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	3840	2911	3178	2884	2532	2635
Fuel oil	5979	6832	7329	7280	7502	8118
Bagasse	279	425	513	480	621	448
Total input	10098	10167	11019	10643	10655	11200
Total production	3277	3393	3464	3526	3741	3892
Estimated efficiency (% of production to input)	32	33	31	33	35	35

Statistics on electricity

Haiti

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	718	1100	1055	1033	1038	1084
Combustible fuels	597	879	914	943	955	1013
Hydro	121	221	141	90	83	71
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	687	1052	1005	943	831	874
Combustible fuels	566	831	864	853	748	803
Hydro	121	221	141	90	83	71
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	59	28	19	11	17	17
Net production	659	1072	1036	1022	1021	1067
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	627	627	599	621	608	617
Consumption	235	493	456	410	411	417
Energy industries own use	..	..	..	..	..	..
By industry and construction	83	194	171	184	184	187
By transport	..	..	..	..	..	..
By households and other cons.	152	299	285	226	227	230
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	267	268	*340	*321	*333	*336
Combustible fuels	207	207	*262	*259	*271	*274
Hydro	61	61	77	61	61	61
Nuclear	..	..	..	..	..	..
Other	..	1	1	1	1	1
Main activity	193	194	*246	*228	*237	*240
Combustible fuels	133	133	*168	*166	*175	*178
Hydro	61	61	77	61	61	61
Nuclear	..	..	..	..	..	..
Other	..	1	1	1	1	1
Combustible fuel input	Terajoules					
Gas-diesel oil	2881	6880	6149	5504	8127	8213
Fuel oil	808	2262	2666	5171	4404	4484
Total input	3689	9142	8815	10675	12531	12697
Total production	2149	3164	3290	3395	3438	3647
Estimated efficiency (% of production to input)	58	35	37	32	27	29

Statistics on electricity
Honduras

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	7347	7378	7499	8398	8965	8783
Combustible fuels	4415	4253	4450	5398	5543	4978
Hydro	2815	2787	2739	2602	2340	2350
Nuclear	..	..	..	..	..	..
Other	117	338	310	398	1082	1455
Main activity	7170	7234	7309	8120	8487	8209
Combustible fuels	4238	4109	4260	5120	5065	4404
Hydro	2815	2787	2739	2602	2340	2350
Nuclear	..	..	..	..	..	..
Other	117	338	310	398	1082	1455
Own use in electricity, CHP and heat plants	14	15	13	15	16	16
Net production	7333	7363	7486	8383	8949	8767
Imports	171	154	268	827	679	195
Exports	127	79	156	505	536	..
Losses	1928	1927	1902	1411	1295	1476
Consumption	5449	5511	5696	7310	7814	7059
Energy industries own use	..	..	..	..	..	..
By industry and construction	1590	1627	1683	1837	2112	1908
By transport	..	..	..	..	..	..
By households and other cons.	3859	3884	4013	5473	5702	5151
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1701	1783	1743	1897	2250	2439
Combustible fuels	1068	1143	1083	1121	1078	1185
Hydro	531	538	558	624	632	670
Nuclear	..	..	..	..	..	..
Other	102	102	102	152	540	584
Main activity	1594	1645	1619	1755	2081	2229
Combustible fuels	961	1005	959	979	909	975
Hydro	531	538	558	624	632	670
Nuclear	..	..	..	..	..	..
Other	102	102	102	152	540	584
Combustible fuel input	Terajoules					
Hard Coal	1006	671	1084	1264	929	2193
Gas-diesel oil	1849	1849	2107	1161	1505	1634
Fuel oil	33047	33047	36158	39471	42339	39632
Fuelwood	2939	4929	4788	3298	7030	7347
Total input	38841	40496	44136	45194	51803	50807
Total production	15894	15311	16020	19433	19955	17921
Estimated efficiency (% of production to input)	41	38	36	43	39	35

Statistics on electricity

Hungary

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	36019	34635	30294	29392	30342	31859
Combustible fuels	19485	17851	13936	12674	13395	14583
Hydro	222	213	213	301	234	259
Nuclear	15685	15793	15370	15649	15834	16054
Other	627	778	775	768	879	963
Main activity	35323	34119	29679	28737	29553	30860
Combustible fuels	18790	17343	13378	12130	12792	13863
Hydro	222	213	213	301	234	259
Nuclear	15685	15793	15370	15649	15834	16054
Other	626	770	718	657	693	684
Own use in electricity, CHP and heat plants	2486	2284	2263	2261	2210	2353
Net production	33533	32351	28031	27131	28132	29506
Imports	14664	16970	16635	19079	19935	17951
Exports	8021	9003	4758	5689	6249	5240
Losses	3784	3684	3663	3631	3695	3566
Consumption	36358	36400	36241	35899	37439	38228
Energy industries own use	1818	1396	1368	1162	1148	1110
By industry and construction	9878	14802	14840	14696	15403	15963
By transport	1117	983	1227	1156	1171	1177
By households and other cons.	23545	19219	18806	18885	19717	19978
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	9654	9400	8418	8655	8636	8750
Combustible fuels	7264	7007	5987	6179	6068	6107
Hydro	55	56	57	57	57	57
Nuclear	2000	2000	2000	2000	2000	2000
Other	335	337	374	419	511	586
Main activity	9483	9287	8217	8393	8242	8264
Combustible fuels	7097	6906	5831	6007	5856	5878
Hydro	55	56	57	57	57	57
Nuclear	2000	2000	2000	2000	2000	2000
Other	331	325	329	329	329	329
Combustible fuel input	Terajoules					
Hard Coal	718	160	0	29	0	2989
Brown Coal	71632	70166	68609	64078	63146	60077
Biogas	1931	1608	2269	2113	2202	2529
Fuel oil	646	929	566	525	444	404
Natural gas	106501	92291	57584	44671	49177	59535
Coke-oven gas	1895	2162	1596	1786	1284	2021
Blast furnace gas	3038	2975	1246	2141	2894	2130
Fuelwood	*19982	*16471	*17663	*21531	*21071	*19129
Municipal waste	4030	3842	3923	4096	4827	5194
Industrial waste	578	341	296	398	807	1782
Others	892	1298	262	305	354	305
Total input	211844	192243	154014	141674	146207	156094
Total production	70146	64264	50170	45626	48222	52499
Estimated efficiency (% of production to input)	33	33	33	32	33	34

Statistics on electricity

Iceland

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	17211	17549	18116	18123	18799	18550
Combustible fuels	2	3	5	3	4	3
Hydro	12507	12337	12863	12873	13781	13470
Nuclear	..	..	..	..	..	..
Other	4702	5209	5248	5247	5014	5077
Main activity	17211	17549	18116	18123	18799	18550
Combustible fuels	2	3	5	3	4	3
Hydro	12507	12337	12863	12873	13781	13470
Nuclear	..	..	..	..	..	..
Other	4702	5209	5248	5247	5014	5077
Own use in electricity, CHP and heat plants	360	253	116	320	241	378
Net production	16851	17296	18000	17803	18558	18172
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	503	486	374	498	576	489
Consumption	16152	16523	16989	17009	17665	17479
Energy industries own use	142	166	166	179	195	176
By industry and construction	13868	14201	14678	14682	15129	14840
By transport	0	1	2	4	19	61
By households and other cons.	2142	2155	2143	2144	2322	2402
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2669	2656	2765	2766	2772	2772
Combustible fuels	120	114	114	114	117	117
Hydro	1884	1877	1984	1984	1987	1987
Nuclear	..	..	..	..	..	..
Other	665	665	667	668	668	668
Main activity	2669	2656	2765	2766	2772	2772
Combustible fuels	120	114	114	114	117	117
Hydro	1884	1877	1984	1984	1987	1987
Nuclear	..	..	..	..	..	..
Other	665	665	667	668	668	668
Combustible fuel input	Terajoules					
Biogas	0	0	0	0	0	..
Gas-diesel oil	43	43	86	86	86	86
Municipal waste	0	0	0	0	0	0
Total input	43	43	86	86	86	86
Total production	7	11	18	11	14	11
Estimated efficiency (% of production to input)	17	25	21	13	17	13

Statistics on electricity

India

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	973006	1035264	1193480	1308873	1354382	1432358
Combustible fuels	813625	860173	980599	1111341	1158338	1188280
Hydro	103741	113855	141637	129353	121546	122507
Nuclear	32287	32871	34228	36102	37414	37916
Other	23353	28365	37016	32077	37084	83655
Main activity	844605	906863	1002743	1146816	1135434	1233926
Combustible fuels	685453	732001	792477	951504	943013	993516
Hydro	103512	113626	141508	129244	121377	122378
Nuclear	32287	32871	34228	36102	37414	37916
Other	23353	28365	34530	29966	33630	80116
Own use in electricity, CHP and heat plants	57238	*57238	81588	29966	79302	0
Net production	915768	978026	1111892	1278907	1275080	1432358
Imports	8441	5152	5598	4998	5244	5617
Exports	..	..	..	..	..	6710
Losses	185193	185306	220257	*241550	240864	248834
Consumption	772603	785130	897233	955927	1034374	1071213
Energy industries own use	..	..	7178	*7600	*5294	*4945
By industry and construction	346469	352291	374278	*418346	*451412	426665
By transport	14327	14206	15447	16177	16594	17217
By households and other cons.	411807	418633	500330	513804	561074	622386
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	252471	278275	*294873	*316379	287130	377122
Combustible fuels	192556	215522	*226449	*241396	210430	267129
Hydro	39051	39552	*40061	*40061	40333	44586
Nuclear	4780	4780	4780	5780	5780	6780
Other	16084	18421	*23583	29142	*30587	58627
Main activity	215961	241765	*256786	*271722	205114	324844
Combustible fuels	156107	179073	*190000	*198745	130475	218330
Hydro	38990	39491	*40000	*40000	40272	44532
Nuclear	4780	4780	4780	5780	5780	6780
Other	16084	18421	*22006	27197	*28587	55202
Combustible fuel input	Terajoules					
Hard Coal	8176582	8841855	8249905	8625865	9353251	9407701
Brown Coal	306073	356142	*346863	376809	360925	665019
Gas-diesel oil	7224	9202	290293	*281048	9632	16426
Fuel oil	26139	*19554	34906	84234	19432	15231
Liquefied petroleum gas	..	..	142	142	142	95
Naphtha	8322	15219	9568	8856	2225	2670
Natural gas	737965	501381	642401	418305	*634158	654623
Coke-oven gas	20317	23260	25477	*21800	*29689	*34422
Fuelwood	*189684	*221496	*275463	*222700	*225409	*749011
Vegetal waste	*189684	*221496	*225681	*327716	*349703	*231629
Total input	9661990	10209605	10100698	10367474	10984566	11776826
Total production	2929050	3096623	3530156	4000828	4170017	4277808
Estimated efficiency (% of production to input)	30	30	35	39	38	36

Statistics on electricity

Indonesia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	182389	196181	222017	234549	267287	233355
Combustible fuels	160593	173957	192591	199993	240698	201209
Hydro	12419	12799	15710	18800	17595	21475
Nuclear	..	..	..	..	..	..
Other	9377	9425	13717	15756	8995	10671
Main activity	148622	155615	169254	175297	157027	166458
Combustible fuels	128934	135670	146602	150478	142227	148606
Hydro	10316	10525	13014	14816	10005	13885
Nuclear	..	..	..	..	..	..
Other	9372	9420	9638	10003	4796	3967
Own use in electricity, CHP and heat plants	6887	5791	10842	10012	12838	9900
Net production	175502	190390	211175	224537	254449	223455
Imports	3	2	3	9	13	1
Exports	..	..	..	..	..	..
Losses	16672	17847	20701	22006	22057	22706
Consumption	159867	173991	196967	198355	212767	215781
Energy industries own use	..	..	..	..	..	..
By industry and construction	54725	60176	72153	65909	72541	68145
By transport	88	108	129	155	257	..
By households and other cons.	105054	113707	124685	132291	139969	147636
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	47756	53125	55563	60937	73696	59033
Combustible fuels	42163	46603	48875	53692	65967	52622
Hydro	4406	5067	5191	5655	6186	4868
Nuclear	..	..	..	..	..	..
Other	1186	1454	1497	1590	1543	*1543
Main activity	40832	45023	46427	51651	55394	39980
Combustible fuels	35743	39020	40441	45258	48967	35622
Hydro	3906	4552	4491	4805	4886	3568
Nuclear	..	..	..	..	..	..
Other	1182	1450	1495	1588	1541	790
Combustible fuel input	Terajoules					
Hard Coal	1156713	1364290	1562018	1711643	1850002	1854221
Motor gasoline	..	..	..	..	7664	7752
Gas-diesel oil	335615	322113	258129	253528	155316	130333
Fuel oil	95869	60600	44521	24725	20200	21129
Natural gas	383947	479651	533975	509724	777817	452991
Fuelwood	*3006	*2592	*4104	*3708	*4111	*10512
Charcoal	..	..	2183	..	266	..
Total input	1975150	2229246	2404930	2503328	2815375	2476939
Total production	578135	626245	693326	719976	866513	724352
Estimated efficiency (% of production to input)	29	28	29	29	31	29

Statistics on electricity
Iran (Islamic Rep. of)

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	240052	254276	262434	274437	280633	289094
Combustible fuels	227428	239752	242909	255870	263393	265799
Hydro	12058	12447	14582	13862	14090	16421
Nuclear	327	1847	4546	4472	2914	6620
Other	239	230	397	233	236	254
Main activity	230216	243536	255885	268167	274193	282612
Combustible fuels	217592	229012	236360	249600	256953	259317
Hydro	12058	12447	14582	13862	14090	16421
Nuclear	327	1847	4546	4472	2914	6620
Other	239	230	397	233	236	254
Own use in electricity, CHP and heat plants	8482	8558	9137	8717	8130	8842
Net production	231570	245718	253297	265720	272503	280252
Imports	3656	3897	3707	3772	4148	4221
Exports	8668	11029	11586	9660	6822	6688
Losses	34906	36794	38049	34610	33818	33513
Consumption	191698	201793	208298	224225	235735	243730
Energy industries own use	2240	2391	2705	2797	2915	2775
By industry and construction	69143	71989	72852	75689	77186	80680
By transport	354	371	286	380	549	436
By households and other cons.	119961	127041	132455	145359	155085	159839
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	65222	68894	70236	73148	74185	74104
Combustible fuels	55351	58015	58833	61174	61632	61262
Hydro	8746	9746	10266	10789	11354	11578
Nuclear	1020	1020	1020	1020	1020	1020
Other	105	113	117	166	179	244
Main activity	60088	63313	64655	67568	68604	68523
Combustible fuels	50217	52434	53252	55593	56051	55681
Hydro	8746	9746	10266	10789	11354	11578
Nuclear	1020	1020	1020	1020	1020	1020
Other	105	113	117	166	179	244
Combustible fuel input	Terajoules					
Biogas	127	127	127	127	127	282
Gas-diesel oil	352009	290708	290783	332024	227649	212721
Fuel oil	461128	554397	585589	394140	266494	171054
Other kerosene	..	..	..	..	..	44
Natural gas	1517956	1587843	1430042	1957762	2279763	2431484
Coke-oven gas	0	0	35	186	88	183
Blast furnace gas	8480	7980	9088	10284	9064	6845
Total input	2339699	2441055	2315664	2694523	2783185	2822612
Total production	818741	863107	874472	921132	948215	956876
Estimated efficiency (% of production to input)	35	35	38	34	34	34

Statistics on electricity

Iraq

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	54240	46018	58422	67768	*68688	80030
Combustible fuels	50100	41626	53665	64837	*66116	76659
Hydro	4140	4392	4757	2931	*2572	3371
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	54240	46018	58422	67768	*68688	80030
Combustible fuels	50100	41626	53665	64837	*66116	76659
Hydro	4140	4392	4757	2931	*2572	3371
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	1373	2310	1713	*920	2023
Net production	54240	44645	56112	66055	*67768	78007
Imports	7262	10170	12202	12251	13104	11965
Exports	..	..	..	..	..	..
Losses	18854	19797	23285	34312	31967	48958
Consumption	42648	35076	45042	43993	42035	38733
Energy industries own use	..	..	..	..	..	..
By industry and construction	8743	8244	9867	10071	*8665	5180
By transport	..	..	..	..	..	..
By households and other cons.	33905	26832	35175	33922	33370	33553
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	16952	16952	27110	25589	31111	32177
Combustible fuels	14439	14439	24597	23076	28598	29664
Hydro	2513	2513	2513	2513	2513	2513
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	16952	16952	27110	25589	31111	32177
Combustible fuels	14439	14439	24597	23076	28598	29664
Hydro	2513	2513	2513	2513	2513	2513
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Crude oil	132780	125039	191788	283114	348044	380489
Gas-diesel oil	217623	289089	333508	426345	359738	360340
Fuel oil	195092	282396	289506	229674	201071	233795
Naphtha	0	0	0	0	0	..
Natural gas	221803	126599	152218	183234	207313	225878
Total input	767297	823123	967021	1122367	1116166	1200501
Total production	180360	149854	193194	233413	*238018	275972
Estimated efficiency (% of production to input)	24	18	20	21	21	23

Statistics on electricity

Ireland

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	27165	27354	25920	26087	28387	30418
Combustible fuels	22077	22329	20433	19958	20717	23292
Hydro	707	1014	944	988	1095	973
Nuclear	..	..	..	..	..	..
Other	4381	4011	4543	5141	6575	6153
Main activity	25201	25228	23864	24014	26227	28318
Combustible fuels	20114	20204	18378	17886	18559	21196
Hydro	707	1014	944	988	1095	973
Nuclear	..	..	..	..	..	..
Other	4380	4010	4542	5140	6573	6149
Own use in electricity, CHP and heat plants	800	876	803	776	771	824
Net production	26365	26478	25117	25311	27616	29594
Imports	732	784	2625	2853	1752	871
Exports	242	370	383	704	1079	1583
Losses	2028	2003	2017	2028	2084	2136
Consumption	25086	24734	24991	24815	25728	26221
Energy industries own use	215	570	789	678	656	647
By industry and construction	9484	9161	9287	9396	9844	10143
By transport	45	46	43	40	43	49
By households and other cons.	15342	14957	14872	14701	15185	15382
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	8296	8589	8798	9084	9557	9945
Combustible fuels	6427	6295	6327	6342	6586	6583
Hydro	237	529	529	529	529	529
Nuclear	..	..	..	..	..	..
Other	1632	1765	1942	2213	2442	2833
Main activity	7968	8256	8460	8740	9211	9595
Combustible fuels	6100	5963	5990	6000	6242	6239
Hydro	237	529	529	529	529	529
Nuclear	..	..	..	..	..	..
Other	1631	1764	1941	2211	2440	2827
Combustible fuel input	Terajoules					
Hard Coal	39836	49285	42334	40473	48423	46439
Peat	21937	28176	22070	24120	24635	23893
Biogas	2014	1974	1764	1846	1917	1952
Gas-diesel oil	344	301	172	301	774	473
Fuel oil	1697	1656	1414	1980	2424	2182
Liquefied petroleum gas	..	..	47	..	47	47
Refinery gas	248	347	198	198	396	198
Natural gas	115994	105362	97403	91594	88178	108340
Fuelwood	*1276	*1718	*2141	*2437	*1804	*3675
Municipal waste	..	1799	2044	2096	2120	2132
Total input	183345	190619	169587	165045	170718	189331
Total production	79477	80384	73559	71849	74581	83851
Estimated efficiency (% of production to input)	43	42	43	44	44	44

Statistics on electricity

Isle of Man

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	348	207	341	349	323	303
Combustible fuels	345	204	338	346	320	300
Hydro	*3	*3	*3	*3	*3	*3
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	348	207	341	349	323	303
Combustible fuels	345	204	338	346	320	300
Hydro	*3	*3	*3	*3	*3	*3
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	348	207	341	349	323	303
Imports	41	180	58	42	63	65
Exports	..	..	*30	*30	*35	*16
Losses	47	47	21	17	9	*15
Consumption	377	381	373	368	367	362
Energy industries own use	..	..	..	..	..	..
By industry and construction	133	134	137	137	141	139
By transport	..	..	..	..	..	..
By households and other cons.	244	247	236	231	226	223
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	180	180	186	186	186	176
Combustible fuels	179	179	185	185	185	175
Hydro	1	1	1	1	1	1
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	180	180	186	186	186	176
Combustible fuels	179	179	185	185	185	175
Hydro	1	1	1	1	1	1
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Fuel oil	96	66	149	81	108	105
Natural gas	3375	1918	3317	3587	3165	3668
Municipal waste	*571	*561	*570	*540	*517	*522
Total input	4041	2545	4036	4207	3790	4295
Total production	1242	734	1217	1246	1152	1080
Estimated efficiency (% of production to input)	31	29	30	30	30	25

Statistics on electricity
Israel

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	59679	63003	61322	60813	64226	66976
Combustible fuels	59371	62595	60794	59954	63080	65432
Hydro	29	33	28	13	24	..
Nuclear	..	..	..	..	..	..
Other	279	375	500	846	1122	1544
Main activity	57855	61488	59026	57478	60483	62907
Combustible fuels	57819	61453	58997	57464	60461	62907
Hydro	24	29	23	8	15	..
Nuclear	..	..	..	..	..	..
Other	12	6	6	6	7	..
Own use in electricity, CHP and heat plants	4962	5252	2140	1989	1928	2004
Net production	54717	57751	59182	58824	62298	64972
Imports	..	..	..	..	..	..
Exports	4222	4434	4675	4844	5197	5553
Losses	1640	1736	2567	1738	2472	2535
Consumption	49512	52223	52118	52201	55142	56964
Energy industries own use	556	419	478	883	769	755
By industry and construction	12015	12448	13181	15211	13441	14933
By transport	..	..	..	..	..	..
By households and other cons.	36941	39356	38459	36107	40932	41276
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	13990	14413	14985	16220	17221	17585
Combustible fuels	13662	14163	14491	15526	16466	16689
Hydro	7	7	7	7	7	7
Nuclear	..	..	..	..	..	..
Other	321	243	487	687	748	889
Main activity	13305	13746	14091	15075	15986	16198
Combustible fuels	13269	13735	14080	15064	15975	16166
Hydro	5	5	5	5	5	5
Nuclear	..	..	..	..	..	..
Other	31	6	6	6	6	27
Combustible fuel input	Terajoules					
Hard Coal	312358	351341	289694	273447	266209	227233
Brown Coal	3359	3199	3573	0	0	0
Biogas	391	777	353	593	559	795
Oil shale	1219	1240	1671	1572	1667	1679
Gas-diesel oil	27133	83893	13244	731	4042	2279
Fuel oil	13615	46339	6828	525	808	848
Other oil products	26009	24160	1930	1568	..	..
Natural gas	171628	76692	223101	245137	262263	317669
Fuelwood	*411	0	0	0	0	0
Total input	556124	587641	540393	523573	535548	550504
Total production	213736	225342	218858	215834	227088	235555
Estimated efficiency (% of production to input)	38	38	40	41	42	43

Statistics on electricity

Italy

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	302582	299277	289807	279827	282994	289768
Combustible fuels	227711	216811	192237	175510	191458	198693
Hydro	47757	43854	54672	60256	46970	44257
Nuclear	..	..	..	..	..	..
Other	27114	38612	42898	44061	44566	46818
Main activity	279019	283220	273734	264085	263912	271301
Combustible fuels	205528	201786	177113	160761	173249	181006
Hydro	46889	43281	54045	59518	46361	43695
Nuclear	..	..	..	..	..	..
Other	26602	38153	42576	43806	44302	46600
Own use in electricity, CHP and heat plants	11141	11475	10974	10679	10566	10065
Net production	291441	287802	278833	269148	272428	279703
Imports	47519	45407	44338	46747	50849	43181
Exports	1787	2304	2200	3031	4471	6154
Losses	20848	21000	21187	19451	19717	18753
Consumption	316330	309911	299784	293414	299089	297977
Energy industries own use	14502	13169	12386	11916	11606	11950
By industry and construction	128076	120323	114981	112918	112665	113257
By transport	10793	10759	10775	10463	10856	11162
By households and other cons.	162959	165660	161642	158117	163962	161608
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	118801	124599	124515	121747	116964	114162
Combustible fuels	75977	76793	74733	71272	65617	62096
Hydro	21737	21880	22009	22098	22220	22298
Nuclear	..	..	..	..	..	..
Other	21087	25926	27773	28377	29127	29768
Main activity	113025	120404	120213	117673	111706	109328
Combustible fuels	70501	72852	70664	67419	60575	57438
Hydro	21568	21752	21890	21979	22099	22181
Nuclear	..	..	..	..	..	..
Other	20956	25800	27659	28275	29032	29709
Combustible fuel input	Terajoules					
Hard Coal	455418	482749	427786	408150	414451	342425
Biogas	46073	47476	74133	80223	76475	76651
Fuel oil	68034	51510	41006	32401	37532	20281
Refinery gas	37472	36927	32274	26978	28958	31581
Other oil products	148619	139534	105163	106811	118188	125022
Natural gas	1225420	1112248	938888	829412	947225	1057652
Blast furnace gas	34635	31494	23404	25051	15672	23686
Fuelwood	*55439	*59714	*78399	*82397	*70047	*73136
Municipal waste	70588	67560	69302	71882	70840	72908
Other liquid biofuels	16276	18796	22632	26386	29400	28277
Others	47806	49598	34860	29970	26071	17982
Total input	2205780	2097606	1847848	1719661	1834857	1869601
Total production	819760	780520	692053	631836	689249	715295
Estimated efficiency (% of production to input)	37	37	37	37	38	38

Statistics on electricity
Jamaica

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	4171	4156	4256	4123	4122	4230
Combustible fuels	3926	3898	4017	3869	3868	3908
Hydro	152	151	124	135	129	119
Nuclear	..	..	..	..	..	..
Other	92	108	115	119	125	203
Main activity	2760	2615	2343	2462	2293	2262
Combustible fuels	2607	2464	2218	2327	2164	2130
Hydro	152	151	124	135	129	119
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	13
Own use in electricity, CHP and heat plants	36	44	115	12	27	27
Net production	4135	4113	4141	4111	4095	4203
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	962	1033	1097	1103	1137	1160
Consumption	3176	3081	*3039	*3008	3035	3124
Energy industries own use	..	..	..	..	..	..
By industry and construction	1020	989	*984	*958	1484	1517
By transport	..	..	..	..	..	..
By households and other cons.	2156	2092	*2055	*2050	1551	1607
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	840	912	938	945	*962	*1052
Combustible fuels	776	848	874	874	*890	*892
Hydro	23	23	23	29	30	30
Nuclear	..	..	..	..	..	..
Other	42	42	42	42	42	130
Main activity	611	611	637	644	*661	*679
Combustible fuels	586	586	612	612	*628	*618
Hydro	23	23	23	29	30	30
Nuclear	..	..	..	..	..	..
Other	3	3	3	3	*3	31
Combustible fuel input	Terajoules					
Gas-diesel oil	10226	9779	7860	8110	7783	9460
Fuel oil	29143	26281	26433	24433	26947	26906
Bagasse	..	..	..	..	*761	*958
Total input	39369	36060	34294	32543	35490	37325
Total production	14135	14031	14461	13928	13925	14069
Estimated efficiency (% of production to input)	36	39	42	43	39	38

Statistics on electricity

Japan

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1063987	1052416	1073255	1052579	1046944	1057976
Combustible fuels	836692	917291	936051	913159	881996	873973
Hydro	91709	83645	84886	86942	91270	85083
Nuclear	101761	15939	9303	0	9437	18060
Other	33825	35541	43015	52478	64241	80860
Main activity	908012	890995	887612	853431	822831	879078
Combustible fuels	729134	804983	807060	780634	736043	768939
Hydro	74378	67360	68564	70255	74801	81810
Nuclear	101761	15939	9303	0	9437	18060
Other	2739	2713	2685	2542	2550	10269
Own use in electricity, CHP and heat plants	37851	40738	37378	33797	31057	31057
Net production	1026136	1011678	1035877	1018782	1015887	1026919
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	46834	43244	47518	43334	40587	45653
Consumption	978900	975995	996562	978502	971898	989862
Energy industries own use	23170	23651	21797	18252	19510	22513
By industry and construction	339023	337438	346576	340162	337348	344716
By transport	17757	17675	17721	17604	17604	17604
By households and other cons.	598950	597231	610468	602484	597436	605029
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	293575	296730	304289	317125	323917	335636
Combustible fuels	188327	191942	194337	196664	194361	198225
Hydro	48418	48934	48932	49597	50034	50117
Nuclear	48960	46148	44264	44264	42048	41482
Other	7870	9706	16756	26600	37474	45812
Main activity	229908	231220	231467	234028	231484	274454
Combustible fuels	136132	139795	141901	143777	143040	174392
Hydro	44168	44652	44676	45403	45786	49521
Nuclear	48960	46148	44264	44264	42048	41482
Other	648	625	626	584	610	9059
Combustible fuel input	Terajoules					
Hard Coal	2300085	2463587	2794265	2767861	2765304	2828897
Crude oil	418389	487381	418685	244621	206128	100843
Fuel oil	635088	782023	613918	466862	365337	312373
Refinery gas	74844	76329	98406	102465	119840	141273
Natural gas	3160581	3338260	3400829	3480690	3273270	3458845
Blast furnace gas	190388	203391	210199	233959	224408	198005
Fuelwood	*37865	*29968	*38462	*38855	*44564	*66681
Vegetal waste	*116418	*123311	*129642	*128546	*142507	*68495
Industrial waste	14114	22728	38260	54060	82293	129869
Black liquor	*77620	*87230	*90572	*93282	*86328	*86328
Others	299676	321226	290378	261156	256858	262804
Total input	7325068	7935433	8123617	7872358	7566837	7654413
Total production	3012091	3302248	3369784	3287372	3175186	3146303
Estimated efficiency (% of production to input)	41	42	41	42	42	41

Statistics on electricity

Jersey

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	40	114	157	108	48	70
Combustible fuels	40	114	157	108	48	70
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	7	71	123	71	7	24
Combustible fuels	7	71	123	71	7	24
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	40	114	157	108	48	70
Imports	657	601	568	566	625	614
Exports	..	..	..	..	..	..
Losses	65	68	71	60	52	47
Consumption	635	646	656	615	622	637
Energy industries own use	..	..	..	..	..	..
By industry and construction	260	255	256	253	242	*249
By transport	..	..	..	..	..	..
By households and other cons.	375	391	400	362	380	387
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*219	*219	*240	*240	*253	*253
Combustible fuels	*219	*219	*240	*240	*253	*253
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*212	*212	*212	*212	*225	*225
Combustible fuels	*212	*212	*212	*212	*225	*225
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	108	886	1428	744	103	259
Municipal waste	*592	*780	*616	*658	*732	*813
Total input	*700	1666	2044	1402	*835	*1072
Total production	144	412	564	388	173	250
Estimated efficiency (% of production to input)	21	25	28	28	21	23

Statistics on electricity
Jordan

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	14647	16596	17263	18270	19012	19730
Combustible fuels	14589	16532	17205	18210	18834	18803
Hydro	55	61	55	58	53	41
Nuclear	..	..	..	..	..	..
Other	3	3	3	2	125	886
Main activity	14390	16355	16977	17887	18540	19172
Combustible fuels	14332	16291	16919	17827	18363	18245
Hydro	55	61	55	58	53	41
Nuclear	..	..	..	..	..	..
Other	3	3	3	2	125	886
Own use in electricity, CHP and heat plants	616	619	616	632	651	777
Net production	14031	15977	16647	17638	18361	18953
Imports	1738	784	381	435	1768	977
Exports	86	104	59	64	145	133
Losses	2148	2383	2406	2569	2696	2690
Consumption	13599	14352	14571	15419	16633	16909
Energy industries own use	103	107	99	98	105	105
By industry and construction	3446	3431	3425	3780	3823	4074
By transport	..	..	..	..	..	..
By households and other cons.	10050	10814	11047	11541	12705	12730
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	3511	3511	3385	4199	4455	4825
Combustible fuels	3498	3498	3372	4186	4320	4326
Hydro	12	12	12	12	12	12
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	123	487
Main activity	3312	3312	3186	4000	4256	4626
Combustible fuels	3299	3299	3173	3987	4121	4127
Hydro	12	12	12	12	12	12
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	123	487
Combustible fuel input	Terajoules					
Biogas	96	72	72	72	90	100
Gas-diesel oil	40755	64999	58961	70258	24079	569
Fuel oil	52354	54649	53887	69561	63227	15473
Natural gas	40598	30652	37961	*12590	81400	141902
Total input	133804	150372	150881	152480	168797	158044
Total production	52520	59515	61938	65556	67803	67691
Estimated efficiency (% of production to input)	39	40	41	43	40	43

Statistics on electricity
Kazakhstan

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	86586	92817	103086	105068	106468	106626
Combustible fuels	78703	85177	95349	96791	97020	94644
Hydro	7883	7637	7731	8263	9269	11620
Nuclear	..	..	..	..	..	..
Other	..	3	6	14	179	362
Main activity	86586	92817	103085	105067	106467	106625
Combustible fuels	78703	85177	95349	96791	97020	94644
Hydro	7883	7637	7731	8263	9269	11620
Nuclear	..	..	..	..	..	..
Other	..	3	5	13	178	361
Own use in electricity, CHP and heat plants	10165	11867	17337	19778	25201	23968
Net production	76421	80950	85749	85290	81267	82658
Imports	3406	4252	2147	1749	1618	1319
Exports	1809	2933	2996	2917	1614	2572
Losses	6479	7142	11174	7082	5181	5342
Consumption	71296	75362	73338	76676	76407	*76064
Energy industries own use	6544	7114	7611	7776	8209	*10166
By industry and construction	44372	49162	44280	45529	45110	*44244
By transport	3945	3352	2960	2511	3573	*3245
By households and other cons.	16435	15734	18487	20860	19515	18409
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*20217	*21219	*22222	*25011	*25149	*25223
Combustible fuels	*18000	*19000	*20000	*22500	*22500	*22500
Hydro	*2217	*2217	*2217	*2500	*2500	*2500
Nuclear	..	..	..	..	..	..
Other	..	*2	*5	*11	*149	*223
Main activity	*20217	*21219	*22221	*25010	*25148	*25222
Combustible fuels	*18000	*19000	*20000	*22500	*22500	*22500
Hydro	*2217	*2217	*2217	*2500	*2500	*2500
Nuclear	..	..	..	..	..	..
Other	..	*2	*4	*10	*148	*222
Combustible fuel input	Terajoules					
Hard Coal	769012	817322	874273	877729	783691	806694
Brown Coal	24648	8924	615	630	542	6011
Fuel oil	6585	7838	7151	12201	18463	23028
Natural gas	90739	171672	194836	233178	225843	257658
Total input	890984	1005756	1076875	1123738	1028539	1093391
Total production	283331	306637	343256	348448	349272	340718
Estimated efficiency (% of production to input)	32	30	32	31	34	31

Statistics on electricity
Kenya

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	7560	7852	8448	9139	9515	9971
Combustible fuels	2882	2305	2218	2635	1462	1471
Hydro	3217	4016	4435	3569	*3472	3960
Nuclear	..	..	..	..	..	..
Other	1461	1530	1796	2934	4580	4541
Main activity	7560	7852	8448	9139	9515	9971
Combustible fuels	2882	2305	2218	2635	1462	1471
Hydro	3217	4016	4435	3569	*3472	3960
Nuclear	..	..	..	..	..	..
Other	1461	1530	1796	2934	4580	4541
Own use in electricity, CHP and heat plants	34	39	49	43	48	50
Net production	7526	7812	8399	9095	9467	9921
Imports	34	39	49	158	59	86
Exports	37	33	36	27	46	39
Losses	1249	1404	1476	1662	1642	1965
Consumption	6500	6760	7296	7786	7732	8346
Energy industries own use	..	..	..	..	..	..
By industry and construction	3636	3686	4438	3988	4426	5257
By transport	..	..	..	..	..	..
By households and other cons.	2864	3074	2858	3798	3306	3089
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1540	1611	1723	2094	2263	2254
Combustible fuels	609	637	715	734	819	786
Hydro	735	770	767	797	800	798
Nuclear	..	..	..	..	..	..
Other	197	204	242	563	645	670
Main activity	1540	1611	1723	2094	2263	2254
Combustible fuels	609	637	715	734	819	786
Hydro	735	770	767	797	800	798
Nuclear	..	..	..	..	..	..
Other	197	204	242	563	645	670
Combustible fuel input	Terajoules					
Gas-diesel oil	15308	12255	12943	7310	3612	2263
Fuel oil	15473	12403	6464	6399	7874	5484
Vegetal waste	*16800	*16800	16800	16800	16800	15460
Total input	47581	41458	36207	30509	28286	23207
Total production	10373	8299	7984	9487	5264	5295
Estimated efficiency (% of production to input)	22	20	22	31	19	23

Statistics on electricity

Kiribati

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	24	25	25	*26	*28	*31
Combustible fuels	24	25	25	*26	*26	*26
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	*2	*5
Main activity	22	23	23	*24	*26	*29
Combustible fuels	22	23	23	*24	*24	*24
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	*2	*5
Own use in electricity, CHP and heat plants	1	1	1	*1	*1	*2
Net production	23	24	24	*25	*27	*30
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	4	5	5	4	*4	*5
Consumption	19	19	19	*20	*20	*25
Energy industries own use	..	..	..	..	..	..
By industry and construction	*2	*2	*2	*2	*2	*3
By transport	..	..	..	..	..	..
By households and other cons.	17	17	17	*18	*18	*22
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	8	8	8	*8	*9	*11
Combustible fuels	6	6	6	*6	*8	*8
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*1	*1	*1	*1	2	3
Main activity	7	7	7	*7	*8	*10
Combustible fuels	5	5	5	*5	*7	*7
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*1	*1	*1	*1	2	3
Combustible fuel input	Terajoules					
Gas-diesel oil	284	284	301	292	*292	*301
Total input	284	284	301	292	*292	*301
Total production	86	89	91	*92	*92	*94
Estimated efficiency (% of production to input)	30	31	30	31	31	31

Statistics on electricity

Korea, Dem.Ppl's.Rep.

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	19226	19236	18332	17909	13737	16926
Combustible fuels	6026	5736	4432	4909	3737	4126
Hydro	13200	13500	13900	13000	10000	12800
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	19226	19236	18332	17909	13737	16926
Combustible fuels	6026	5736	4432	4909	3737	4126
Hydro	13200	13500	13900	13000	10000	12800
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	1824	1825	1739	1699	1303	1605
Net production	17402	17411	16593	16210	12434	15321
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	3040	3042	2899	2832	2172	2676
Consumption	14362	14369	13694	13378	10262	12645
Energy industries own use	..	..	..	..	..	..
By industry and construction	7181	7185	6847	6689	5131	6323
By transport	..	..	..	..	..	..
By households and other cons.	7181	7184	6847	6689	5131	6322
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	6920	7220	7243	7253	7427	7661
Combustible fuels	2960	2960	2960	2960	2960	2960
Hydro	3960	4260	4283	4293	4467	4701
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	6920	7220	7243	7253	7427	7661
Combustible fuels	2960	2960	2960	2960	2960	2960
Hydro	3960	4260	4283	4293	4467	4701
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Hard Coal	42122	44052	28716	33948	22517	25612
Brown Coal	7720	7403	5504	6155	4168	4537
Fuel oil	11150	9979	10342	10625	14706	17049
Total input	60992	61434	44563	50728	41390	47198
Total production	21694	20650	15955	17672	13453	14854
Estimated efficiency (% of production to input)	36	34	36	35	33	31

Statistics on electricity
Korea, Republic of

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	523286	534618	541996	550934	552697	562603
Combustible fuels	358505	374116	390858	381511	375110	385386
Hydro	7831	7652	8394	7820	5796	6634
Nuclear	154723	150327	138784	156407	164762	161995
Other	2227	2523	3960	5196	7029	8588
Main activity	493596	503660	513833	517962	522835	527590
Combustible fuels	329200	343479	363146	349044	345891	351162
Hydro	7831	7652	8394	7820	5796	6634
Nuclear	154723	150327	138784	156407	164762	161995
Other	1842	2202	3509	4691	6386	7799
Own use in electricity, CHP and heat plants	20136	20272	20526	20927	23873	22519
Net production	503150	514346	521470	530007	528824	540084
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	17430	17292	18311	18270	17979	18475
Consumption	485215	497357	503570	505690	511469	534858
Energy industries own use	14602	15952	16445	18856	16158	17587
By industry and construction	246046	250643	255697	259606	262369	265383
By transport	2246	2250	2168	2003	2217	2689
By households and other cons.	222321	228512	229260	225225	230725	249199
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	84654	87830	91483	99830	103202	111201
Combustible fuels	58303	59086	61795	69122	70108	75559
Hydro	6418	6447	6452	6467	6471	6485
Nuclear	18716	20716	20716	20716	21716	23116
Other	1217	1581	2520	3525	4907	6041
Main activity	78952	81013	85145	92115	95693	103741
Combustible fuels	52800	52634	55960	62121	63704	68903
Hydro	6418	6447	6452	6467	6471	6485
Nuclear	18716	20716	20716	20716	21716	23116
Other	1018	1216	2017	2811	3802	5237
Combustible fuel input	Terajoules					
Hard Coal	2123995	2138543	2135854	2049054	2106320	2107076
Brown Coal	88237	45119	38499	103882	145713	140268
Fuel oil	84274	132754	139663	66741	76073	112070
Naphtha	76051	81613	46903	47882	63680	55136
Natural gas	928420	1027978	1054747	933846	889749	952847
Coke-oven gas	31841	22352	23544	38166	35247	35474
Blast furnace gas	135788	119240	102556	127625	124623	120427
Fuelwood	*2030	*6428	*6776	*4613	*10176	*38807
Other recovered gases	15145	15976	14983	20893	22509	23676
Other liquid biofuels	..	..	..	5261	8686	10823
Others	39428	36561	37829	47900	45486	36163
Total input	3525209	3626564	3601355	3445863	3528261	3632766
Total production	1290618	1346818	1407089	1373440	1350396	1387390
Estimated efficiency (% of production to input)	37	37	39	40	38	38

Statistics on electricity
Kuwait

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	57457	62655	60982	65140	68288	70094
Combustible fuels	57457	62655	60982	65140	68288	70092
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	2
Main activity	57457	62655	60982	65140	68288	70094
Combustible fuels	57457	62655	60982	65140	68288	70092
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	2
Own use in electricity, CHP and heat plants	6948	7577	7398	7587	7911	8164
Net production	50509	55078	53584	57553	60377	61930
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	7082	8893	7398	7596	9729	8169
Consumption	43427	46185	46186	49957	50278	53761
Energy industries own use	6045	6451	6430	6905	6982	8050
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	37382	39734	39756	43052	43296	45711
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	14803	14803	15719	15819	17891	18952
Combustible fuels	14803	14803	15719	15819	17891	18950
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	*2
Main activity	14703	14703	15619	15719	17791	18852
Combustible fuels	14703	14703	15619	15719	17791	18850
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	*2
Combustible fuel input	Terajoules					
Crude oil	112560	95725	105792	112010	109684	109684
Gas-diesel oil	52761	57534	63210	49020	34916	36722
Fuel oil	226442	180750	277265	216019	274760	234886
Natural gas	249590	259312	272687	251248	282681	289067
Total input	641353	593321	718955	628297	702041	670359
Total production	206845	225558	219535	234504	245837	252331
Estimated efficiency (% of production to input)	32	38	31	37	35	38

Statistics on electricity
Kyrgyzstan

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	15158	15168	14011	14572	13030	13262
Combustible fuels	1019	989	914	1274	1930	1768
Hydro	14139	14179	13097	13298	11100	11494
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	15158	15168	14004	14552	13006	13236
Combustible fuels	1019	989	907	1254	1906	1742
Hydro	14139	14179	13097	13298	11100	11494
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	233	235	199	270	244	182
Net production	14925	14933	13812	14302	12786	13080
Imports	174	177	0	286	729	331
Exports	2848	1840	377	72	184	199
Losses	3389	3361	2841	3458	2668	2655
Consumption	8766	9661	10322	11058	10663	10428
Energy industries own use	54	70	55	74	76	268
By industry and construction	2000	1985	1464	1175	2356	1709
By transport	..	..	41	232	174	45
By households and other cons.	6712	7606	8762	9577	8057	8406
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*3859	*3859	*3861	*3864	*3865	*3865
Combustible fuels	*795	*795	*797	*800	*801	*801
Hydro	*3064	*3064	*3064	*3064	*3064	*3064
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*3859	*3859	*3859	*3859	*3859	*3859
Combustible fuels	*795	*795	*795	*795	*795	*795
Hydro	*3064	*3064	*3064	*3064	*3064	*3064
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Hard Coal	15088	16240	9840	11838	18775	9922
Brown Coal	..	..	4645	7298	5334	6389
Gas-diesel oil	43	0	0	0	0	0
Fuel oil	2747	2222	1252	1050	646	364
Natural gas	2521	3254	382	1651	2419	2710
Total input	20399	21716	16120	21837	27175	19385
Total production	3668	3560	3290	4586	6948	6365
Estimated efficiency (% of production to input)	18	16	20	21	26	33

Statistics on electricity

Lao People's Dem. Rep.

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	12980	12761	15512	15640	16730	25068
Combustible fuels	..	..	5	6	2476	7120
Hydro	12980	12760	15506	15633	14252	17946
Nuclear	..	..	..	..	..	..
Other	..	0	0	1	2	2
Main activity	12980	12761	15512	15640	16730	25068
Combustible fuels	..	..	5	6	2476	7120
Hydro	12980	12760	15506	15633	14252	17946
Nuclear	..	..	..	..	..	..
Other	..	0	0	1	2	2
Own use in electricity, CHP and heat plants	1	0	0	350	229	2
Net production	12980	12760	15512	15290	16501	25066
Imports	904	1329	1272	1559	2050	787
Exports	10617	10363	12494	11936	11559	*18693
Losses	649	948	907	1106	2565	*2500
Consumption	2556	3075	3381	3791	4239	4660
Energy industries own use	..	..	..	..	..	..
By industry and construction	740	883	1118	1564	1745	1916
By transport	..	..	..	..	..	..
By households and other cons.	1815	2192	2263	2228	2494	2744
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2570	2973	3020	3098	5813	6418
Combustible fuels	..	..	40	40	1918	1878
Hydro	2570	2973	2980	3058	3894	4538
Nuclear	..	..	..	..	..	..
Other	..	0	0	1	2	2
Main activity	2570	2973	3020	3098	5813	6418
Combustible fuels	..	..	40	40	1918	1878
Hydro	2570	2973	2980	3058	3894	4538
Nuclear	..	..	..	..	..	..
Other	..	0	0	1	2	2
Combustible fuel input	Terajoules					
Brown Coal	..	..	..	..	41605	*132947
Bagasse	..	..	*77	*77	*54	*77
Total input	..	..	*77	*77	41659	*133025
Total production	..	..	19	20	8914	25632
Estimated efficiency (% of production to input)	..	..	25	26	21	19

Statistics on electricity

Latvia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	6094	6167	6209	5141	5533	6425
Combustible fuels	3136	2346	3177	3006	3526	3767
Hydro	2887	3707	2912	1994	1860	2530
Nuclear	..	..	..	..	..	..
Other	71	114	120	141	147	128
Main activity	6006	5984	5952	4884	5274	6214
Combustible fuels	3057	2170	2926	2760	3273	3560
Hydro	2878	3700	2909	1987	1858	2528
Nuclear	..	..	..	..	..	..
Other	71	114	117	137	143	126
Own use in electricity, CHP and heat plants	530	448	409	409	440	498
Net production	5564	5719	5800	4732	5093	5927
Imports	4009	4935	5005	5340	5246	4828
Exports	2764	3244	3650	3023	3425	3795
Losses	616	559	575	465	451	476
Consumption	6191	6848	6576	6582	6461	6482
Energy industries own use	..	..	..	..	..	..
By industry and construction	1670	1993	1808	1667	1703	1667
By transport	124	129	124	117	106	105
By households and other cons.	4397	4726	4644	4798	4652	4710
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2577	2660	2911	2924	2933	2928
Combustible fuels	965	1023	1255	1265	1275	1292
Hydro	1576	1576	1589	1590	1589	1565
Nuclear	..	..	..	..	..	..
Other	36	61	67	69	69	71
Main activity	2550	2618	2859	2881	2890	2883
Combustible fuels	944	984	1205	1224	1234	1251
Hydro	1571	1573	1587	1588	1587	1563
Nuclear	..	..	..	..	..	..
Other	35	61	67	69	69	69
Combustible fuel input	Terajoules					
Hard Coal	393	499	446	169	96	143
Peat	0	0	40	0	0	0
Biogas	768	1890	2365	2780	3310	3424
Gas-diesel oil	0	0	0	0	0	0
Fuel oil	202	162	121	0	0	0
Other oil products	0	..	..	..	..	..
Natural gas	32210	28994	33458	29896	32244	32978
Fuelwood	819	1837	5256	7097	8359	10331
Vegetal waste	0	0	0	0	0	0
Biodiesel	37	37	0	0	0	0
Total input	34429	33418	41687	39942	44009	46876
Total production	11290	8446	11437	10822	12694	13561
Estimated efficiency (% of production to input)	33	25	27	27	29	29

Statistics on electricity
Lebanon

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	16365	14826	17487	17952	18468	18690
Combustible fuels	15560	13819	16218	17759	17989	18308
Hydro	805	1007	1269	193	479	382
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	11615	8826	10487	12387	12831	12953
Combustible fuels	10810	7819	9218	12194	12352	12571
Hydro	805	1007	1269	193	479	382
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	16365	14826	17487	17952	18468	18690
Imports	840	323	522	136	268	69
Exports	..	..	..	..	..	..
Losses	1868	1372	1651	1879	1933	1956
Consumption	15337	13776	16358	16210	16614	16966
Energy industries own use	..	..	..	..	..	..
By industry and construction	4026	3616	4294	4255	4310	4386
By transport	..	..	..	..	..	..
By households and other cons.	11311	10160	12064	11955	12304	12580
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	3262	3262	3535	3537	3543	3137
Combustible fuels	2988	2988	3259	3259	3259	2834
Hydro	*274	*274	*274	*274	*274	280
Nuclear	..	..	..	..	..	..
Other	0	1	2	4	10	23
Main activity	2312	2312	2585	2587	2593	2237
Combustible fuels	2038	2038	2309	2309	2309	1934
Hydro	*274	*274	*274	*274	*274	280
Nuclear	..	..	..	..	..	..
Other	0	1	2	4	10	23
Combustible fuel input	Terajoules					
Gas-diesel oil	102641	115455	118981	111800	113219	115240
Fuel oil	47955	39915	47793	53207	53894	54863
Natural gas	0	0	0	0	0	..
Total input	150596	155370	166774	165007	167113	170103
Total production	56016	49748	58385	63932	64760	65909
Estimated efficiency (% of production to input)	37	32	35	39	39	39

Statistics on electricity
Lesotho

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	490	485	515	515	532	508
Combustible fuels	..	..	..	..	..	..
Hydro	490	485	515	515	532	508
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	490	485	515	515	532	508
Combustible fuels	..	..	..	..	..	..
Hydro	490	485	515	515	532	508
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	490	485	515	515	532	508
Imports	262	310	285	271	261	373
Exports	39	21	2	3	4	3
Losses	67	98	88	98	122	113
Consumption	645	676	711	675	*694	*765
Energy industries own use	..	..	..	..	..	..
By industry and construction	221	232	236	233	*225	*267
By transport	..	..	..	..	..	..
By households and other cons.	425	444	475	442	*469	*498
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	80	80	80	80	80	80
Combustible fuels	..	..	..	..	..	..
Hydro	80	80	80	80	80	80
Nuclear	..	..	..	..	..	..
Other	..	..	0	0	0	0
Main activity	80	80	80	80	80	80
Combustible fuels	..	..	..	..	..	..
Hydro	80	80	80	80	80	80
Nuclear	..	..	..	..	..	..
Other	..	..	0	0	0	0
Combustible fuel input	Terajoules					
Total input	..	..	..	..	..	..
Total production	..	..	..	..	..	..
Estimated efficiency (% of production to input)	..	..	..	..	..	..

Statistics on electricity

Liberia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*340	*340	*340	*340	*350	*440
Combustible fuels	*300	*300	*300	*300	*310	*400
Hydro	*40	*40	*40	*40	*40	*40
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*140	*140	*140	*140	*145	*175
Combustible fuels	*100	*100	*100	*100	*105	*135
Hydro	*40	*40	*40	*40	*40	*40
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	*60	*60	*60	*60	*60	*135
Net production	*280	*280	*280	*280	*290	*305
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*24	*24	*24	*24	*25	*30
Consumption	*256	*256	*256	*256	*265	*275
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*256	*256	*256	*256	*265	*275
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*96	*96	*97	*97	*97	*103
Combustible fuels	*91	*91	*93	*93	*93	*98
Hydro	*5	*5	*5	*5	*5	*5
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*26	*26	27	*27	*27	33
Combustible fuels	*21	*21	23	*23	*23	28
Hydro	*5	*5	*5	*5	*5	*5
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	*2365	*2623	*2709	*2752	*3225	*4160
Fuel oil	*808	*606	*404	*404	0	0
Total input	*3173	*3229	*3113	*3156	*3225	*4160
Total production	*1080	*1080	*1080	*1080	*1116	*1440
Estimated efficiency (% of production to input)	34	33	35	34	35	35

Statistics on electricity

Libya

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	26005	34282	37921	37739	37721	36430
Combustible fuels	25999	34275	37913	37731	37713	36422
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	6	7	8	8	8	8
Main activity	26005	34282	37921	37739	37721	36430
Combustible fuels	25999	34275	37913	37731	37713	36422
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	6	7	8	8	8	8
Own use in electricity, CHP and heat plants	1935	1101	609	640	622	610
Net production	24070	33181	37312	37099	37099	35820
Imports	56	61	64	88	88	376
Exports	121	14	1	0	0	..
Losses	8197	6521	7215	7186	7127	7324
Consumption	15808	18045	18995	17019	15277	13980
Energy industries own use	..	..	..	..	..	..
By industry and construction	1660	1449	1892	1560	1892	1213
By transport	..	..	..	..	..	..
By households and other cons.	14148	16596	17103	15459	13385	12767
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	8911	8912	9460	9460	9460	10249
Combustible fuels	8907	8907	9455	9455	9455	10244
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	4	5	5	5	5	5
Main activity	8911	8912	9460	9460	9460	10249
Combustible fuels	8907	8907	9455	9455	9455	10244
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	4	5	5	5	5	5
Combustible fuel input	Terajoules					
Gas-diesel oil	64973	86602	134246	143104	143061	*115670
Fuel oil	59469	77083	36602	42703	42662	32845
Natural gas	163688	211555	236429	216420	231555	229931
Total input	288130	375240	407277	402227	417278	378446
Total production	93596	123390	136487	135832	135767	131119
Estimated efficiency (% of production to input)	32	33	34	34	33	35

Statistics on electricity

Liechtenstein

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	72	86	85	41	70	90
Combustible fuels	4	4	3	3	2	2
Hydro	62	74	69	22	49	68
Nuclear	..	..	..	..	..	..
Other	6	9	13	17	19	19
Main activity	72	86	85	41	70	90
Combustible fuels	4	4	3	3	2	2
Hydro	62	74	69	22	49	68
Nuclear	..	..	..	..	..	..
Other	6	9	13	17	19	19
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	72	86	85	41	70	90
Imports	326	318	319	355	325	309
Exports	..	..	..	..	..	..
Losses	..	..	..	..	..	..
Consumption	*398	*404	404	396	395	399
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*398	*404	404	396	395	399
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*12	*13	*14	*15	*16	*16
Combustible fuels	*1	*1	*1	1	*1	*1
Hydro	*10	*10	*10	*10	*10	*10
Nuclear	..	..	..	..	..	..
Other	*1	*2	*3	*4	*5	*5
Main activity	*12	*13	*14	*15	*16	*16
Combustible fuels	*1	*1	*1	1	*1	*1
Hydro	*10	*10	*10	*10	*10	*10
Nuclear	..	..	..	..	..	..
Other	*1	*2	*3	*4	*5	*5
Combustible fuel input	Terajoules					
Municipal waste	0	0	0	0	0	0
Total input	0	0	0	0	0	0
Total production	14	13	12	9	8	9
Estimated efficiency (% of production to input)	..	..	..	..	..	..

Statistics on electricity

Lithuania

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	4822	5043	4762	4397	4933	4266
Combustible fuels	3034	3337	2808	2354	2761	1750
Hydro	1056	937	1069	1088	1024	1044
Nuclear	..	..	..	..	..	..
Other	732	769	885	955	1148	1472
Main activity	4222	4256	4141	3661	4002	3378
Combustible fuels	2691	2777	2424	1861	2095	1132
Hydro	1056	937	1069	1088	1024	1044
Nuclear	..	..	..	..	..	..
Other	475	542	648	712	883	1202
Own use in electricity, CHP and heat plants	377	354	311	253	257	215
Net production	4445	4689	4451	4144	4676	4051
Imports	8086	8060	8073	8521	7938	11106
Exports	1347	1441	1127	898	730	2831
Losses	872	883	872	815	793	907
Consumption	10308	10422	10522	10949	11089	11416
Energy industries own use	1728	1501	1567	1712	1747	1666
By industry and construction	2768	2893	2986	3119	3313	3417
By transport	74	75	74	63	67	72
By households and other cons.	5738	5953	5895	6055	5962	6261
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	3691	4237	4323	4037	3587	3665
Combustible fuels	2588	3054	3075	2778	2180	2184
Hydro	876	876	876	877	877	877
Nuclear	..	..	..	..	..	..
Other	227	307	372	382	530	604
Main activity	3417	3965	4053	3764	3313	3387
Combustible fuels	2339	2807	2830	2530	1931	1931
Hydro	876	876	876	877	877	877
Nuclear	..	..	..	..	..	..
Other	202	282	347	357	505	579
Combustible fuel input	Terajoules					
Hard Coal	0	0	0	0	0	0
Brown Coal	0	0	0	0	0	0
Peat	0	0	0	35	0	0
Biogas	335	353	473	603	669	996
Fuel oil	1980	6141	2666	1414	2060	1091
Refinery gas	0	198	149	99	198	396
Natural gas	42383	37286	30737	24187	21472	14542
Fuelwood	*2359	*3786	*6075	6060	*6365	*5771
Municipal waste	..	..	929	975	1312	2480
Industrial waste	..	..	155	258	290	626
Others	0	0	0	0	0	0
Total input	47057	47764	41184	33631	32366	25902
Total production	10922	12013	10109	8474	9940	6300
Estimated efficiency (% of production to input)	23	25	25	25	31	24

Statistics on electricity

Luxembourg

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	3718	3818	2888	2966	2766	2196
Combustible fuels	2498	2543	1573	1622	1030	467
Hydro	1130	1160	1158	1169	1530	1528
Nuclear	..	..	..	..	..	..
Other	90	115	157	175	206	201
Main activity	3510	3593	2623	2695	2492	1911
Combustible fuels	2320	2361	1388	1452	866	290
Hydro	1126	1155	1152	1163	1524	1520
Nuclear	..	..	..	..	..	..
Other	64	77	83	80	102	101
Own use in electricity, CHP and heat plants	20	34	29	28	28	21
Net production	3698	3784	2859	2938	2738	2175
Imports	7096	6732	6852	6961	7519	7718
Exports	2614	2622	1907	2067	1919	1420
Losses	166	154	153	153	158	158
Consumption	8018	7751	7669	7677	8176	8310
Energy industries own use	1533	1515	1468	1496	1951	1943
By industry and construction	3577	3206	3053	3075	3063	3406
By transport	129	129	129	124	124	151
By households and other cons.	2779	2901	3019	2982	3038	2810
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1741	1789	1813	2022	2023	1709
Combustible fuels	521	522	526	524	513	137
Hydro	1134	1134	1134	1330	1330	1330
Nuclear	..	..	..	..	..	..
Other	86	133	153	168	180	242
Main activity	1640	1653	1657	1851	1843	1509
Combustible fuels	463	463	467	465	451	61
Hydro	1132	1132	1132	1328	1328	1328
Nuclear	..	..	..	..	..	..
Other	45	58	58	58	64	120
Combustible fuel input	Terajoules					
Biogas	282	305	307	384	395	448
Gas-diesel oil	43	43	43	0	43	43
Natural gas	19997	20548	13480	12597	7918	3620
Fuelwood	0	0	*49	*525	*591	*612
Municipal waste	1225	1203	1225	1171	1365	1400
Total input	21547	22099	15104	14677	10312	6123
Total production	8993	9155	5663	5839	3708	1681
Estimated efficiency (% of production to input)	42	41	37	40	36	27

Statistics on electricity
Madagascar

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1438	1520	1593	1658	1712	1822
Combustible fuels	747	765	784	774	777	935
Hydro	690	755	809	884	935	887
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	1
Main activity	1268	1350	1423	1488	1542	1652
Combustible fuels	577	595	614	604	607	765
Hydro	690	755	809	884	935	887
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	1
Own use in electricity, CHP and heat plants	21	23	*24	*25	*25	*25
Net production	1417	1497	1569	1633	1687	1797
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*41	*41	*41	*42	*45	*45
Consumption	1053	1100	1124	1170	1195	1179
Energy industries own use	..	..	..	..	..	..
By industry and construction	*501	*516	*511	*537	*544	498
By transport	..	..	..	..	..	..
By households and other cons.	552	584	613	633	651	681
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*508	*541	*541	*542	*543	677
Combustible fuels	*379	*379	*379	*379	*379	514
Hydro	129	162	162	163	164	162
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	*1
Main activity	*476	*509	*509	*510	*511	645
Combustible fuels	*347	*347	*347	*347	*347	482
Hydro	129	162	162	163	164	162
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	*1
Combustible fuel input	Terajoules					
Gas-diesel oil	*5061	*5061	*5160	3474	4795	5865
Fuel oil	*2424	*2424	*2505	*2141	*606	*808
Total input	*7485	*7485	*7665	5616	5401	6673
Total production	2690	2753	2824	2786	2799	3366
Estimated efficiency (% of production to input)	36	37	37	50	52	50

Statistics on electricity

Malawi

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*2069	*2058	*2046	*2151	*2136	*2160
Combustible fuels	*181	*181	*181	*181	*183	*183
Hydro	*1888	*1877	*1865	*1970	*1953	*1977
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*1888	*1877	*1865	*1970	*1953	*1977
Combustible fuels	*5	*5	*5	*5	*5	*5
Hydro	*1883	*1872	*1860	*1965	*1948	*1972
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	*95	*100	*97	*100	*101	*102
Net production	*1974	*1958	*1949	*2051	*2035	*2058
Imports	..	..	..	..	..	..
Exports	20	18	32	39	*39	*39
Losses	*186	433	*389	*294	*437	*442
Consumption	1768	1507	1529	1718	1559	*1577
Energy industries own use	..	..	..	..	..	..
By industry and construction	617	503	661	709	691	*699
By transport	..	..	..	..	..	..
By households and other cons.	1151	1004	868	1009	868	*878
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	503	503	503	567	567	567
Combustible fuels	*212	*212	*212	*212	*211	*211
Hydro	291	291	291	355	356	356
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	288	288	288	353	352	352
Combustible fuels	*2	*2	*2	*2	*1	*1
Hydro	286	286	286	351	351	351
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	*2012	*1929	*2002	*1886	*1829	*1904
Total input	*2012	*1929	*2002	*1886	*1829	*1904
Total production	*652	*652	*652	*652	*658	*658
Estimated efficiency (% of production to input)	32	34	33	35	36	35

Statistics on electricity
Malaysia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	124894	134421	138331	147461	150123	156665
Combustible fuels	117269	125319	127604	133846	135926	136336
Hydro	7624	9054	10586	13388	13924	20019
Nuclear	..	..	..	..	..	..
Other	1	48	141	227	273	310
Main activity	119761	128267	133311	142788	145137	150442
Combustible fuels	112136	119165	122584	129173	130940	130113
Hydro	7624	9054	10586	13388	13924	20019
Nuclear	..	..	..	..	..	..
Other	1	48	141	227	273	310
Own use in electricity, CHP and heat plants	12779	11543	11366	15585	12535	10102
Net production	112115	122878	126965	131876	137588	146563
Imports	370	100	221	23	13	33
Exports	10	15	23	12	3	694
Losses	*5133	*6610	*4087	*3554	*5399	1878
Consumption	107341	116353	123076	128333	132199	144024
Energy industries own use	..	..	..	..	..	..
By industry and construction	47017	52414	55886	58948	60641	67664
By transport	214	241	241	256	266	340
By households and other cons.	60110	63698	66949	69129	71292	76020
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	28750	29198	31817	29974	30440	33090
Combustible fuels	25734	25826	27725	25040	23519	25732
Hydro	3015	3317	3931	4773	5716	6137
Nuclear	..	..	..	..	..	..
Other	*1	*55	*161	161	1205	1220
Main activity	25752	26024	28780	27623	27368	29789
Combustible fuels	22736	22652	24688	22695	21309	23226
Hydro	3015	3317	3931	4768	5714	6135
Nuclear	..	..	..	..	..	..
Other	*1	*55	*161	160	345	427
Combustible fuel input	Terajoules					
Hard Coal	544825	591912	566336	571404	654254	715990
Gas-diesel oil	49966	35346	27348	27391	13975	8944
Fuel oil	44925	22382	15958	10948	4121	6302
Natural gas	531627	555449	695828	650110	711320	600958
Vegetal waste	*15048	*11405	*15955	9346	9878	9878
Total input	1186391	1216493	1321425	1269199	1393548	1342072
Total production	422168	451148	459374	481846	489334	490810
Estimated efficiency (% of production to input)	36	37	35	38	35	37

Statistics on electricity

Maldives

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	387	416	421	537	599	644
Combustible fuels	386	414	420	535	594	639
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	2	1	2	5	*5
Main activity	275	299	304	329	391	425
Combustible fuels	274	297	303	327	386	420
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	2	1	2	5	*5
Own use in electricity, CHP and heat plants	*10	12	*14	*18	*24	*31
Net production	377	404	407	519	575	613
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*15	*16	*16	*16	*18	*20
Consumption	*361	*388	*390	*502	*557	*593
Energy industries own use	..	..	..	..	..	..
By industry and construction	*18	*19	*19	*33	*33	*35
By transport	..	..	..	..	..	..
By households and other cons.	*343	*369	*371	*469	*524	*558
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	151	156	156	271	271	271
Combustible fuels	149	154	154	266	266	266
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	2	5	5	5
Main activity	80	83	83	146	146	146
Combustible fuels	78	81	81	141	141	141
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	2	5	5	5
Combustible fuel input	Terajoules					
Gas-diesel oil	*4605	*4902	*4911	*6695	*7082	*7525
Total input	*4605	*4902	*4911	*6695	*7082	*7525
Total production	1389	1491	1512	1926	2140	2300
Estimated efficiency (% of production to input)	30	30	31	29	30	31

Statistics on electricity

Mali

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1351	1328	1434	1626	1772	1965
Combustible fuels	624	545	475	*629	*758	*861
Hydro	727	783	959	997	1012	1102
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	2	2
Main activity	1299	1276	1382	1574	1712	1905
Combustible fuels	572	493	423	*577	*698	*801
Hydro	727	783	959	997	1012	1102
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	2	2
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	1351	1328	1434	1626	1772	1965
Imports	..	..	..	..	..	..
Exports	*349	*376	*460	*479	*486	*529
Losses	*51	*48	*45	*57	*64	*72
Consumption	*1040	*1013	1094	*1214	*1347	*1489
Energy industries own use	..	..	..	..	..	..
By industry and construction	*499	*486	*525	*583	*647	*715
By transport	..	..	..	..	..	..
By households and other cons.	*541	*527	569	*631	*700	*774
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	655	689	811	*890	*891	*891
Combustible fuels	291	323	363	*400	*400	*400
Hydro	365	367	448	*490	*490	*490
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	*1	*1
Main activity	558	592	714	*780	*781	*781
Combustible fuels	194	226	266	*290	*290	*290
Hydro	365	367	448	*490	*490	*490
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	*1	*1
Combustible fuel input	Terajoules					
Gas-diesel oil	*5796	*4945	*4231	*6097	*7409	*8518
Fuel oil	*808	*808	*808	*606	*646	*646
Total input	*6604	*5753	*5039	*6703	*8055	*9165
Total production	2246	1962	1709	*2263	*2729	*3100
Estimated efficiency (% of production to input)	34	34	34	34	34	34

Statistics on electricity

Malta

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	2187	2307	2251	2245	1303	856
Combustible fuels	2174	2277	2222	2177	1210	731
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	13	30	29	68	93	125
Main activity	2177	2281	2216	2170	1203	723
Combustible fuels	2169	2268	2216	2170	1203	723
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	8	13	0	..	..	..
Own use in electricity, CHP and heat plants	134	135	114	108	64	51
Net production	2053	2172	2137	2137	1239	805
Imports	..	..	..	..	1054	1525
Exports	..	..	..	..	..	..
Losses	187	193	187	132	179	216
Consumption	1866	1979	1950	2005	2114	2114
Energy industries own use	..	..	..	..	..	..
By industry and construction	403	417	404	406	415	411
By transport	..	..	..	..	..	..
By households and other cons.	1463	1562	1546	1599	1699	1703
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	581	644	671	738	757	726
Combustible fuels	574	623	623	623	593	543
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	7	21	48	*115	*164	*183
Main activity	576	636	648	675	664	616
Combustible fuels	571	620	620	620	590	538
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	5	16	28	55	74	*78
Combustible fuel input	Terajoules					
Biogas	32	57	34	36	45	55
Gas-diesel oil	3139	3139	2494	2322	860	129
Fuel oil	21856	23311	18988	18665	10262	7151
Total input	25027	26507	21516	21023	11167	7335
Total production	7826	8197	7999	7837	4356	2632
Estimated efficiency (% of production to input)	31	31	37	37	39	36

Statistics on electricity

Marshall Islands

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*79	78	84	*86	*87	*88
Combustible fuels	*79	78	83	*85	*86	*86
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	0	0	1	1	2
Main activity	*79	78	84	*86	*87	*88
Combustible fuels	*79	78	83	*85	*86	*86
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	0	0	1	1	2
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	*79	78	84	*86	*87	*88
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*10	10	*11	*11	*11	*11
Consumption	*69	68	73	*75	*75	*76
Energy industries own use	..	..	..	..	..	..
By industry and construction	*4	*4	*3	*3	*3	*4
By transport	..	..	..	..	..	..
By households and other cons.	*65	64	70	*72	*72	*73
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	29	33	34	34	37	*38
Combustible fuels	29	33	33	33	36	*36
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	0	*1	1	1	2
Main activity	29	33	34	34	37	*38
Combustible fuels	29	33	33	33	36	*36
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	0	*1	1	1	2
Combustible fuel input	Terajoules					
Gas-diesel oil	*727	714	787	*796	*817	*817
Total input	*727	714	787	*796	*817	*817
Total production	*284	279	300	*306	*308	*308
Estimated efficiency (% of production to input)	39	39	38	38	38	38

Statistics on electricity
Martinique

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1575	1590	1577	1561	1570	1587
Combustible fuels	1536	1509	1501	1476	1487	1503
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	40	81	77	86	83	83
Main activity	1561	1571	1562	1539	1543	1559
Combustible fuels	1521	1490	1485	1453	1460	1476
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	40	81	77	86	83	83
Own use in electricity, CHP and heat plants	29	29	29	29	31	28
Net production	1546	1561	1548	1533	1539	1558
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*115	*116	115	*120	125	114
Consumption	*1430	1431	1433	1410	1411	1446
Energy industries own use	..	..	..	..	..	..
By industry and construction	131	110	159	128	121	132
By transport	..	..	..	..	..	..
By households and other cons.	*1300	1321	1274	1282	1290	1314
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*415	*461	*463	492	498	496
Combustible fuels	*400	*400	*400	428	432	429
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*15	61	63	64	66	67
Main activity	*411	*457	*459	488	494	492
Combustible fuels	*396	*396	*396	424	428	425
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*15	61	63	64	66	67
Combustible fuel input	Terajoules					
Gas-diesel oil	*989	*1032	*1032	*1118	969	*944
Fuel oil	*12936	*13001	13198	*11865	*12912	*12989
Municipal waste	*475	*625	867	791	*829	793
Total input	*14400	*14658	15097	*13775	*14710	*14725
Total production	5528	5433	5402	5312	5352	5412
Estimated efficiency (% of production to input)	38	37	36	39	36	37

Statistics on electricity
Mauritania

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	744	824	812	851	1002	1006
Combustible fuels	744	824	773	808	868	875
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	39	43	134	132
Main activity	436	501	492	525	662	646
Combustible fuels	436	501	453	482	528	515
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	39	43	134	132
Own use in electricity, CHP and heat plants	14	18	24	25	25	27
Net production	731	806	788	826	977	979
Imports	127	138	174	183	183	221
Exports	..	..	..	..	..	57
Losses	139	141	164	*172	*190	*188
Consumption	698	771	792	844	932	941
Energy industries own use	..	..	..	..	..	..
By industry and construction	309	323	298	326	360	357
By transport	..	..	..	..	..	..
By households and other cons.	390	447	494	519	572	584
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*196	*196	231	240	444	*461
Combustible fuels	*196	*196	209	218	392	*392
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	22	22	52	69
Main activity	*126	*126	161	161	364	*381
Combustible fuels	*126	*126	139	139	312	*312
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	22	22	52	69
Combustible fuel input	Terajoules					
Gas-diesel oil	*4902	*5190	*4532	5173	*5616	*5225
Fuel oil	*2828	*3232	*3030	*3717	*3313	*3083
Total input	*7730	*8422	*7562	8890	*8929	*8307
Total production	2679	2967	2783	2907	3125	3148
Estimated efficiency (% of production to input)	35	35	37	33	35	38

Statistics on electricity
Mauritius

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	2739	2798	2882	2936	2996	3028
Combustible fuels	2679	2719	2781	2817	2845	2894
Hydro	57	74	95	91	122	100
Nuclear	..	..	..	..	..	..
Other	3	5	6	28	29	34
Main activity	1130	1146	1176	1175	1258	1215
Combustible fuels	1070	1068	1078	1081	1133	1112
Hydro	57	74	95	91	122	100
Nuclear	..	..	..	..	..	..
Other	3	4	4	3	3	4
Own use in electricity, CHP and heat plants	44	43	39	42	44	29
Net production	2695	2754	2843	2894	2952	2998
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	194	191	184	182	178	172
Consumption	2491	2561	2657	2708	2770	2819
Energy industries own use	264	267	273	256	264	260
By industry and construction	*682	*687	*714	*715	726	742
By transport	..	..	..	..	..	..
By households and other cons.	1546	1607	1670	1737	1780	1817
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	738	781	778	783	792	838
Combustible fuels	677	718	714	703	711	749
Hydro	60	60	61	61	61	61
Nuclear	..	..	..	..	..	..
Other	1	3	4	19	20	28
Main activity	450	506	501	490	489	499
Combustible fuels	389	445	439	428	427	437
Hydro	60	60	61	61	61	61
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	1	1
Combustible fuel input	Terajoules					
Hard Coal	16017	16848	17731	18344	17647	18091
Biogas	37	*65	*68	*70	73	67
Gas-diesel oil	86	86	43	43	43	45
Fuel oil	8686	8605	8726	8928	9292	8696
Other kerosene	175	131	44	44	44	34
Bagasse	8641	8324	8155	7954	9575	8722
Total input	33643	34060	34766	35383	36675	35654
Total production	9645	9788	10012	10142	10242	10420
Estimated efficiency (% of production to input)	29	29	29	29	28	29

Statistics on electricity
Mayotte

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	262	271	285	299	316	328
Combustible fuels	248	256	268	283	299	311
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	14	15	17	17	17	17
Main activity	262	271	285	299	316	328
Combustible fuels	248	256	268	283	299	311
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	14	15	17	17	17	17
Own use in electricity, CHP and heat plants	12	14	15	16	17	18
Net production	250	257	270	283	299	310
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*10	11	10	10	*10	*10
Consumption	240	246	261	274	*288	*302
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	240	246	261	274	*288	*302
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	90	91	91	*91	*93	*112
Combustible fuels	78	78	78	*78	*80	*99
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	12	*13	13	13	13	*13
Main activity	90	91	91	*91	*93	*112
Combustible fuels	78	78	78	*78	*80	*99
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	12	*13	13	13	13	*13
Combustible fuel input	Terajoules					
Gas-diesel oil	2232	*2322	*2438	*2559	*2683	*2845
Total input	2232	*2322	*2438	*2559	*2683	*2845
Total production	893	920	966	1018	1077	1120
Estimated efficiency (% of production to input)	40	40	40	40	40	39

Statistics on electricity

Mexico

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	302751	307228	297326	301496	310719	320353
Combustible fuels	248219	257001	247163	240279	253005	262310
Hydro	36247	31883	28002	38893	30815	30698
Nuclear	10089	8770	11800	9677	11577	10567
Other	8196	9574	10361	12647	15322	16778
Main activity	266359	262241	258821	258258	262704	266110
Combustible fuels	213610	214591	211680	202346	212385	217231
Hydro	35796	31317	27444	38145	30051	29805
Nuclear	10089	8770	11800	9677	11577	10567
Other	6864	7563	7897	8090	8691	8507
Own use in electricity, CHP and heat plants	22656	22823	10236	11446	12936	17699
Net production	280095	284405	287090	290050	297783	302654
Imports	596	2177	1210	2124	1650	2232
Exports	1293	1116	1240	2653	2320	1968
Losses	45602	44050	42520	41322	40640	40002
Consumption	238955	253065	246503	256779	261850	274210
Energy industries own use	5138	5355	5033	4559	4400	3843
By industry and construction	134551	146746	137391	142326	139990	145945
By transport	1122	1130	1130	1130	1134	1140
By households and other cons.	98144	99834	102949	108764	116326	123282
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	62049	64089	64107	66255	67504	72411
Combustible fuels	47586	48364	48047	48893	49421	53047
Hydro	11571	11626	11633	12464	12223	12580
Nuclear	1365	1400	1400	1400	1510	1608
Other	1527	2699	3027	3498	4350	5176
Main activity	52465	52341	53497	54379	54832	55815
Combustible fuels	38673	38015	39161	39294	39735	40280
Hydro	11453	11498	11509	12269	12028	12348
Nuclear	1365	1400	1400	1400	1510	1608
Other	974	1428	1427	1416	1559	1579
Combustible fuel input	Terajoules					
Hard Coal	161571	139230	125044	150551	146312	169061
Brown Coal	188607	205642	197886	200358	206785	198168
Biogas	1471	1822	1970	1939	1961	1912
Gas-diesel oil	20640	25456	35475	21371	21586	27606
Fuel oil	436199	454581	432522	300010	254762	282194
Liquefied petroleum gas	3122	1372	568	5061	5014	3548
Petroleum coke	37928	39293	40073	39910	39163	29803
Natural gas	1453310	1523582	1423071	1484833	1609427	1684576
Blast furnace gas	5071	3497	4199	4620	5592	4677
Bagasse	31790	41468	53758	71125	68415	70264
Others	1605	9427	2454	1347	845	1064
Total input	2341313	2445369	2317019	2281126	2359862	2472872
Total production	893588	925204	889787	865004	910818	944316
Estimated efficiency (% of production to input)	38	38	38	38	39	38

Statistics on electricity

Micronesia (Fed. States of)

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	65	*66	*67	69	67	*68
Combustible fuels	64	*65	*66	68	66	*66
Hydro	..	..	..	0	0	0
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	1	2
Main activity	65	*66	*67	69	67	*68
Combustible fuels	64	*65	*66	68	66	*66
Hydro	..	..	..	0	0	0
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	1	2
Own use in electricity, CHP and heat plants	3	*3	*3	3	1	2
Net production	62	*63	*65	66	66	*66
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	13	*13	*13	*15	*19	*19
Consumption	*49	*50	*52	*51	46	*46
Energy industries own use	..	..	..	..	..	..
By industry and construction	*11	*11	*11	*14	15	*15
By transport	..	..	..	..	..	..
By households and other cons.	*38	*39	*41	*37	31	*31
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	32	32	32	34	*34	*35
Combustible fuels	32	32	32	32	*32	*32
Hydro	..	..	..	2	2	2
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	1	2
Main activity	32	32	32	34	*34	*35
Combustible fuels	32	32	32	32	*32	*32
Hydro	..	..	..	2	2	2
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	1	2
Combustible fuel input	Terajoules					
Gas-diesel oil	673	*731	*753	*774	834	*834
Total input	673	*731	*753	*774	834	*834
Total production	230	*235	*238	243	236	*236
Estimated efficiency (% of production to input)	34	32	32	31	28	28

Statistics on electricity
Mongolia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	4536	4816	5020	5376	5513	5667
Combustible fuels	4536	4816	5020	5376	5513	5667
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	4536	4816	5020	5376	5513	5667
Combustible fuels	4536	4816	5020	5376	5513	5667
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	691	712	725	772	778	749
Net production	3846	4103	4294	4603	4735	4918
Imports	276	366	1196	1349	1417	1446
Exports	24	21	18	33	51	36
Losses	644	675	740	793	783	817
Consumption	3453	3773	4732	5159	5284	5446
Energy industries own use	..	..	..	..	..	..
By industry and construction	2141	2339	2931	3172	3261	3356
By transport	144	157	197	211	217	223
By households and other cons.	1169	1277	1605	1776	1806	1867
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*1226	*1226	1278	*1341	*1341	*1359
Combustible fuels	*1200	*1200	1200	*1262	*1262	*1273
Hydro	26	26	26	26	26	29
Nuclear	..	..	..	..	..	..
Other	..	..	52	53	53	57
Main activity	*1050	*1050	1102	*1135	*1135	*1150
Combustible fuels	*1050	*1050	1050	*1082	*1082	*1093
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	52	53	53	57
Combustible fuel input	Terajoules					
Hard Coal	26579	30620	35173	38740	40417	42227
Brown Coal	64469	68053	74013	76185	75744	75391
Gas-diesel oil	3096	2881	3741	3311	3182	2662
Fuel oil	283	283	162	125	129	105
Total input	94427	101836	113088	118361	119472	120385
Total production	16331	17336	18070	19353	19848	20402
Estimated efficiency (% of production to input)	17	17	16	16	17	17

Statistics on electricity
Montenegro

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	2656	2844	3945	3173	3003	3141
Combustible fuels	1452	1367	1441	1421	1512	1298
Hydro	1204	1477	2504	1752	1491	1843
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	2656	2844	3945	3173	3003	3141
Combustible fuels	1452	1367	1441	1421	1512	1298
Hydro	1204	1477	2504	1752	1491	1843
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	153	141	136	135	131	118
Net production	2503	2703	3809	3038	2872	3023
Imports	1993	1440	388	903	1040	1210
Exports	431	228	733	642	517	906
Losses	651	695	758	689	586	541
Consumption	3414	3220	2706	2610	2679	2671
Energy industries own use	..	..	..	..	..	..
By industry and construction	2162	1855	1326	760	767	660
By transport	20	15	20	18	20	21
By households and other cons.	1232	1350	1360	1832	1892	1990
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	877	877	870	870	870	870
Combustible fuels	219	219	219	219	219	219
Hydro	658	658	651	651	651	651
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	877	877	870	870	870	870
Combustible fuels	219	219	219	219	219	219
Hydro	658	658	651	651	651	651
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Brown Coal	17499	15611	15178	14708	15362	12028
Total input	17499	15611	15178	14708	15362	12028
Total production	5227	4921	5188	5116	5443	4673
Estimated efficiency (% of production to input)	30	32	34	35	35	39

Statistics on electricity
Montserrat

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*23	*23	*23	*24	*24	*20
Combustible fuels	*23	*23	*23	*24	*24	*20
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*23	*23	*23	*24	*24	*20
Combustible fuels	*23	*23	*23	*24	*24	*20
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	*2	*2	*2	*2	*2	0
Net production	*21	*21	*21	*22	*22	*20
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*2	*1	*1	*1	*1	*1
Consumption	19	19	20	20	20	*18
Energy industries own use	..	..	..	..	..	..
By industry and construction	*9	*9	*9	*9	*9	*8
By transport	..	..	..	..	..	..
By households and other cons.	10	10	11	11	11	*10
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*5	*5	*5	6	5	5
Combustible fuels	*5	*5	*5	6	5	5
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*5	*5	*5	6	5	5
Combustible fuels	*5	*5	*5	6	5	5
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	*237	*237	*237	*237	*237	*194
Total input	*237	*237	*237	*237	*237	*194
Total production	*83	*83	*83	*86	*86	*72
Estimated efficiency (% of production to input)	35	35	35	37	37	37

Statistics on electricity

Morocco

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	25666	27797	28242	29384	31217	32141
Combustible fuels	21533	23951	22594	24125	25108	25776
Hydro	2139	1816	2990	2033	2282	1662
Nuclear	..	..	..	..	..	..
Other	1994	2030	2658	3226	3827	4703
Main activity	24147	26356	26829	27945	29855	30839
Combustible fuels	21316	23812	22483	23988	25048	25776
Hydro	2139	1816	2990	2033	2282	1662
Nuclear	..	..	..	..	..	..
Other	692	728	1356	1924	2525	3401
Own use in electricity, CHP and heat plants	39	32	40	44	52	50
Net production	25627	27765	28202	29340	31165	32091
Imports	5131	5660	5551	6138	5138	5289
Exports	524	818	151	128	165	135
Losses	4171	4633	4915	5197	5515	5654
Consumption	26066	27973	28687	30153	30624	31592
Energy industries own use	561	628	654	899	685	529
By industry and construction	9555	*10244	10303	10659	10864	11190
By transport	302	320	322	332	345	352
By households and other cons.	15648	16781	17408	18263	18730	19521
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	6377	6692	7342	7994	8155	8261
Combustible fuels	4352	4667	5077	5427	5427	5432
Hydro	1770	1770	1770	1770	1770	1770
Nuclear	..	..	..	..	..	..
Other	255	255	495	797	958	1059
Main activity	6377	6692	7342	7994	8155	8261
Combustible fuels	4352	4667	5077	5427	5427	5432
Hydro	1770	1770	1770	1770	1770	1770
Nuclear	..	..	..	..	..	..
Other	255	255	495	797	958	1059
Combustible fuel input	Terajoules					
Hard Coal	125813	126200	123271	168285	185314	178592
Gas-diesel oil	1720	989	774	645	430	516
Fuel oil	64882	64357	51106	28765	23917	31148
Petroleum coke	0	0	..	..	..	..
Natural gas	31186	46004	44285	42865	43985	45068
Total input	223601	237550	219436	240560	253646	255324
Total production	77519	86224	81338	86850	90389	92794
Estimated efficiency (% of production to input)	35	36	37	36	36	36

Statistics on electricity
Mozambique

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	16830	15166	15645	17739	19641	18697
Combustible fuels	20	21	840	1379	2547	3103
Hydro	16810	15145	14805	16359	17093	15592
Nuclear	..	..	..	..	..	..
Other	..	..	..	1	1	2
Main activity	16482	14903	15382	17271	19471	18620
Combustible fuels	20	21	840	1379	2493	3045
Hydro	16462	14882	14542	15892	16978	15575
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	149	210	220	238	238	58
Net production	16681	14956	15425	17501	19403	18639
Imports	8570	8304	8339	7656	10547	9928
Exports	11954	9791	9058	10199	12876	14269
Losses	2456	2243	2647	2612	5080	2480
Consumption	10141	10939	11605	12342	12180	11383
Energy industries own use	..	..	..	..	..	..
By industry and construction	8681	9448	9295	10651	9800	9100
By transport	..	..	..	..	..	..
By households and other cons.	1460	1491	2310	1691	2380	2283
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2479	2486	2646	2682	2508	2491
Combustible fuels	249	249	359	359	410	412
Hydro	2230	2237	2287	2322	2097	2078
Nuclear	..	..	..	..	..	..
Other	..	..	..	1	1	1
Main activity	2429	2436	2596	2596	2460	2460
Combustible fuels	249	249	359	359	385	385
Hydro	2180	2187	2237	2237	2075	2075
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	..	..	*6880	*1600	215	215
Natural gas	304	357	3026	16137	23573	24336
Total input	304	357	*9906	17737	23788	24551
Total production	72	76	3024	4964	9168	11172
Estimated efficiency (% of production to input)	24	21	31	28	39	46

Statistics on electricity

Myanmar

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	10425	10965	12247	14156	15970	17867
Combustible fuels	2907	3199	3424	5327	6463	8123
Hydro	7518	7766	8823	8829	9507	9744
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	10425	10923	11302	11197	14156	14390
Combustible fuels	2907	3199	2929	3046	5327	5235
Hydro	7518	7725	8373	8151	8829	9155
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	160	186	182	152	0	0
Net production	10265	10779	12065	14005	15970	17867
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	2548	2524	2452	2750	2573	2385
Consumption	7717	8255	9613	11255	13397	*15482
Energy industries own use	..	..	..	..	..	..
By industry and construction	4336	4600	5849	7142	2145	*2479
By transport	..	..	..	..	..	..
By households and other cons.	3381	3655	3764	4113	11252	*13003
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	3588	3726	4146	4805	5259	5390
Combustible fuels	895	913	1141	1620	2076	2135
Hydro	2693	2813	3005	3185	3183	3255
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	3588	3606	3753	4177	4631	4590
Combustible fuels	895	913	920	1164	1620	1507
Hydro	2693	2693	2833	3013	3011	3083
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Hard Coal	7864	7038	3056	619	465	*605
Gas-diesel oil	1634	3440	2580	4300	4322	6807
Natural gas	22922	30948	40331	71842	89943	123472
Total input	32420	41426	45967	76761	94730	130884
Total production	10465	11515	12326	19179	23268	29243
Estimated efficiency (% of production to input)	32	28	27	25	25	22

Statistics on electricity

Namibia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1607	1538	1712	1498	1536	1421
Combustible fuels	9	67	72	13	34	62
Hydro	1598	1471	1640	1485	1502	1359
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	1607	1538	1712	1498	1536	1421
Combustible fuels	9	67	72	13	34	62
Hydro	1598	1471	1640	1485	1502	1359
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	1607	1538	1712	1498	1536	1421
Imports	2389	2226	2916	2886	2678	3073
Exports	79	88	89	84	88	99
Losses	360	426	369	543	337	486
Consumption	3467	3635	3772	3747	3782	3909
Energy industries own use	..	..	..	..	..	..
By industry and construction	817	795	786	716	613	585
By transport	..	..	..	..	..	..
By households and other cons.	2650	2840	2986	3031	3169	3324
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	393	508	487	487	497	497
Combustible fuels	144	167	155	155	155	143
Hydro	249	341	332	332	337	350
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	5	*5
Main activity	393	508	487	487	497	497
Combustible fuels	144	167	155	155	155	143
Hydro	249	341	332	332	337	350
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	5	*5
Combustible fuel input	Terajoules					
Hard Coal	136	726	590	0	91	772
Gas-diesel oil	0	*215	*430	172	387	129
Total input	136	941	1020	172	478	901
Total production	32	241	259	47	122	223
Estimated efficiency (% of production to input)	24	26	25	27	26	25

Statistics on electricity

Nauru

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	23	24	*24	*25	*25	*25
Combustible fuels	23	24	*24	*25	*25	*25
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Main activity	23	24	*24	*25	*25	*25
Combustible fuels	23	24	*24	*25	*25	*25
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	23	24	*24	*25	*25	*25
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*2	*2	*2	*2	*2	*2
Consumption	21	*21	*22	*23	*23	*23
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	21	*21	*22	*23	*23	*23
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	5	5	*6	*6	*6	*7
Combustible fuels	5	5	*5	*6	*6	*6
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	1
Main activity	5	5	*6	*6	*6	*7
Combustible fuels	5	5	*5	*6	*6	*6
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	1
Combustible fuel input	Terajoules					
Gas-diesel oil	276	283	*292	*305	*305	*307
Total input	276	283	*292	*305	*305	*307
Total production	83	85	*87	*90	*90	*91
Estimated efficiency (% of production to input)	30	30	30	29	29	30

Statistics on electricity
Nepal

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	3492	3543	3130	3508	3503	4244
Combustible fuels	2	10	10	10	..	..
Hydro	3490	3533	3120	3498	3496	4237
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	7	7
Main activity	3433	3459	2993	3368	3349	4089
Combustible fuels	2	10	10	10	..	..
Hydro	3431	3449	2983	3358	3342	4082
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	7	7
Own use in electricity, CHP and heat plants	32	24	40	15	39	48
Net production	3460	3519	3090	3493	3464	4196
Imports	746	793	1072	1319	1758	2175
Exports	4	4	4	3	3	3
Losses	1102	1066	745	*1200	1315	1433
Consumption	3099	3240	3413	3491	3896	4925
Energy industries own use	..	..	..	..	..	..
By industry and construction	1124	1168	1222	1252	1210	1735
By transport	7	8	6	6	6	7
By households and other cons.	1968	2064	2185	2233	2680	3183
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*762	*762	*772	*829	798	979
Combustible fuels	53	53	53	53	53	53
Hydro	*709	*709	*718	*776	738	919
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	*7	*7
Main activity	*607	*607	*617	*654	701	701
Combustible fuels	53	53	53	53	53	53
Hydro	*554	*554	*563	*601	641	641
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	*7	*7
Combustible fuel input	Terajoules					
Fuel oil	22	101	89	*89	0	0
Total input	22	101	89	*89	0	0
Total production	7	36	36	35	..	..
Estimated efficiency (% of production to input)	32	36	41	39	..	..

Statistics on electricity
Netherlands

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	113963	103298	101736	103418	110070	115170
Combustible fuels	104412	93925	92494	92488	97078	101186
Hydro	57	104	114	112	93	100
Nuclear	4141	3915	2891	4091	4077	3960
Other	5353	5354	6237	6727	8822	9924
Main activity	89215	78150	77128	81458	87478	92253
Combustible fuels	80830	70044	69496	72440	76878	80837
Hydro	57	104	114	112	93	100
Nuclear	4141	3915	2891	4091	4077	3960
Other	4187	4087	4627	4815	6430	7356
Own use in electricity, CHP and heat plants	4818	4651	4799	4644	4984	4186
Net production	109145	98647	96937	98774	105086	110984
Imports	20620	32156	33252	32855	30760	24258
Exports	11531	15046	15015	18128	22012	19343
Losses	5198	5191	5133	4934	5264	5434
Consumption	112958	108477	109787	107028	108057	110760
Energy industries own use	5081	4747	5652	5592	4945	5132
By industry and construction	39122	34904	34736	33095	34247	35740
By transport	1741	1763	1750	1716	1752	1871
By households and other cons.	67014	67063	67649	66625	67113	68017
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	28053	29924	30539	31762	33866	34176
Combustible fuels	24970	26518	26520	27286	28401	27311
Hydro	37	37	37	37	37	37
Nuclear	510	510	485	485	485	485
Other	2536	2859	3497	3954	4943	6343
Main activity	22022	23714	24136	24969	26825	26730
Combustible fuels	19609	21203	21390	22092	23400	22391
Hydro	37	37	37	37	37	37
Nuclear	510	510	485	485	485	485
Other	1866	1964	2224	2355	2903	3817
Combustible fuel input	Terajoules					
Hard Coal	187705	217567	221265	257247	336307	306318
Biogas	7712	7108	6640	6169	6110	6245
Gas-diesel oil	430	688	1032	2924	817	645
Refinery gas	21434	17325	17375	20345	15345	13613
Natural gas	559525	461008	450275	423496	376701	416051
Coke-oven gas	1938	2237	2307	1965	1909	1495
Blast furnace gas	25281	25063	23532	24677	24325	22715
Fuelwood	*21574	*21433	*10363	*8938	*7725	*9465
Vegetal waste	*10947	*11268	*12918	*12717	*13413	*12082
Municipal waste	54776	67182	70182	70843	70793	75189
Others	1891	1246	764	3096	..	..
Total input	893213	832125	816652	832416	853445	863818
Total production	375883	338130	332978	332957	349481	364270
Estimated efficiency (% of production to input)	42	41	41	40	41	42

Statistics on electricity
New Caledonia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	2258	2287	2505	3011	2903	3130
Combustible fuels	1833	1828	1992	2660	2494	2842
Hydro	376	398	456	289	340	232
Nuclear	..	..	..	..	..	..
Other	50	62	57	62	68	57
Main activity	2258	2287	2505	3011	2903	3130
Combustible fuels	1833	1828	1992	2660	2494	2842
Hydro	376	398	456	289	340	232
Nuclear	..	..	..	..	..	..
Other	50	62	57	62	68	57
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	2258	2287	2505	3011	2903	3130
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	64	70	68	58	61	90
Consumption	2195	2217	2437	2953	2842	3040
Energy industries own use	..	..	..	..	..	..
By industry and construction	1589	1596	1808	2324	2193	2354
By transport	..	..	..	..	..	..
By households and other cons.	605	621	630	630	650	686
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	498	503	691	683	998	1001
Combustible fuels	380	384	572	565	875	875
Hydro	78	78	78	78	78	78
Nuclear	..	..	..	..	..	..
Other	41	41	41	40	44	48
Main activity	494	495	630	622	937	940
Combustible fuels	377	377	512	505	815	815
Hydro	78	78	78	78	78	78
Nuclear	..	..	..	..	..	..
Other	40	41	41	40	44	46
Combustible fuel input	Terajoules					
Hard Coal	7441	7088	7790	10405	12389	17157
Gas-diesel oil	340	314	2666	6717	3500	2700
Fuel oil	14071	13946	13001	15320	15792	16677
Other kerosene	*131	*88	83	293	237	311
Bitumen	12	12	52	145	133	133
Other liquid biofuels	..	..	*5	*5	*5	*7
Total input	21996	21447	23597	32885	32056	36986
Total production	6598	6580	7170	9576	8979	10230
Estimated efficiency (% of production to input)	30	31	30	29	28	28

Statistics on electricity

New Zealand

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	44196	44005	43041	43316	44040	43033
Combustible fuels	11202	13021	11703	9624	9383	7464
Hydro	24861	22667	22829	24123	24355	25730
Nuclear	..	..	..	..	..	..
Other	8133	8317	8509	9569	10302	9839
Main activity	42847	42569	41541	41822	42506	41564
Combustible fuels	9976	11698	10341	8282	8020	6182
Hydro	24848	22654	22817	24114	24346	25721
Nuclear	..	..	..	..	..	..
Other	8023	8217	8383	9426	10140	9661
Own use in electricity, CHP and heat plants	1431	1456	1382	1308	1327	551
Net production	42765	42549	41659	42008	42713	42482
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	2999	2996	2890	2852	2845	3038
Consumption	39201	39224	38887	39350	39467	39178
Energy industries own use	593	611	613	595	706	718
By industry and construction	14709	13928	13832	14075	13739	13920
By transport	62	62	62	62	63	62
By households and other cons.	23837	24623	24380	24618	24959	24478
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	9460	9689	9529	9770	9454	9301
Combustible fuels	2929	2988	2738	2741	2388	2221
Hydro	5254	5324	5329	5329	5340	5360
Nuclear	..	..	..	..	..	..
Other	1277	1377	1462	1700	1726	1720
Main activity	9206	9434	9271	9500	9165	9008
Combustible fuels	2708	2767	2517	2520	2167	2000
Hydro	5251	5321	5326	5326	5337	5357
Nuclear	..	..	..	..	..	..
Other	1247	1346	1428	1654	1661	1651
Combustible fuel input	Terajoules					
Brown Coal	15559	27170	16506	12399	11292	4581
Biogas	2376	2372	2458	2722	2833	2966
Gas-diesel oil	0	43	43	43	0	43
Natural gas	70248	71157	70959	58208	56442	50938
Coke-oven gas	1836	1846	2130	2007	2119	1854
Blast furnace gas	4921	5530	5541	5482	5617	5377
Fuelwood	3997	3860	3961	3961	3787	4655
Total input	98937	111978	101598	84822	82090	70414
Total production	40327	46876	42131	34646	33779	26870
Estimated efficiency (% of production to input)	41	42	41	41	41	38

Statistics on electricity
Nicaragua

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	3824	4031	4164	4453	4578	4590
Combustible fuels	2896	2759	2467	2550	2740	2729
Hydro	444	419	456	395	295	426
Nuclear	..	..	..	..	..	..
Other	484	853	1241	1508	1543	1435
Main activity	3405	3529	3629	3908	4069	4000
Combustible fuels	2477	2258	1933	2006	2232	2140
Hydro	444	418	455	394	294	425
Nuclear	..	..	..	..	..	..
Other	484	853	1241	1508	1543	1435
Own use in electricity, CHP and heat plants	306	352	400	161	364	393
Net production	3518	3679	3764	4292	4214	4197
Imports	10	20	52	22	34	205
Exports	41	3	16	49	22	18
Losses	674	642	643	926	837	1051
Consumption	2821	3041	3196	3325	3396	3340
Energy industries own use	..	..	..	..	..	..
By industry and construction	1010	1106	1065	1105	1128	1110
By transport	..	..	..	..	..	..
By households and other cons.	1811	1935	2131	2220	2268	2230
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1109	1287	1290	1329	1346	1396
Combustible fuels	853	870	869	866	866	912
Hydro	105	106	120	120	138	142
Nuclear	..	..	..	..	..	..
Other	151	311	301	342	342	342
Main activity	987	1152	1155	1194	1211	1219
Combustible fuels	731	736	735	733	733	735
Hydro	105	105	119	119	137	142
Nuclear	..	..	..	..	..	..
Other	151	311	301	342	342	342
Combustible fuel input	Terajoules					
Gas-diesel oil	602	602	473	645	645	602
Fuel oil	22422	20362	17332	17816	20119	19473
Bagasse	*9514	*11660	*15255	*15695	*16735	*14364
Vegetal waste	*1413	*1572	*1943	*3007	*3044	*2454
Total input	33951	34196	35003	*37163	40543	36893
Total production	10426	9932	8881	9180	9864	9824
Estimated efficiency (% of production to input)	31	29	25	25	24	27

Statistics on electricity

Niger

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	324	392	438	499	526	526
Combustible fuels	324	392	438	499	526	526
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Main activity	270	338	399	387	412	406
Combustible fuels	270	338	399	387	412	406
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	42	45	44	18	44	68
Net production	282	347	394	481	482	458
Imports	607	637	602	727	782	779
Exports	4	4	3	0	0	..
Losses	145	160	156	191	215	209
Consumption	738	826	836	858	916	975
Energy industries own use	..	..	..	..	..	..
By industry and construction	225	238	225	*215	218	274
By transport	..	..	..	..	..	..
By households and other cons.	512	588	611	644	699	701
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*138	*139	181	182	187	*182
Combustible fuels	*134	*134	172	172	176	*170
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	4	5	9	10	11	12
Main activity	*108	*109	139	140	143	*138
Combustible fuels	*105	*105	134	134	136	*130
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	3	4	5	6	7	8
Combustible fuel input	Terajoules					
Hard Coal	3858	4046	3597	4234	3534	3728
Gas-diesel oil	761	1372	2000	1883	2253	2279
Fuel oil	137	..	..	..	..	..
Liquefied petroleum gas	..	90	473	710	596	..
Total input	4756	5508	6069	6827	6384	6007
Total production	1166	1410	1576	1796	1893	1894
Estimated efficiency (% of production to input)	25	26	26	26	30	32

Statistics on electricity
Nigeria

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	27034	28706	28883	30390	31426	30897
Combustible fuels	21151	23047	23557	25044	25708	25311
Hydro	5883	5659	5326	5346	5718	5586
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	20032	21271	23626	24808	25691	25252
Combustible fuels	14269	15727	18409	19571	20090	19780
Hydro	5763	5544	5217	5237	5601	5472
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	774	822	827	870	900	885
Net production	26260	27884	28056	29520	30526	30012
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	4055	4306	4332	4559	4714	4635
Consumption	23679	25399	23689	24625	25270	25515
Energy industries own use	232	240	202	186	179	207
By industry and construction	3699	3983	3899	4057	4165	4101
By transport	..	..	..	..	..	..
By households and other cons.	19748	21176	19588	20382	20926	21207
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*8902	*8902	*9822	*10396	*10428	*12373
Combustible fuels	*6972	*6972	*7892	*8458	*8458	*10403
Hydro	*1930	*1930	*1930	*1938	*1970	*1970
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*6770	*6770	*7690	*7356	*7388	*9071
Combustible fuels	*4880	*4880	*5800	*5458	*5458	*7141
Hydro	*1890	*1890	*1890	*1898	*1930	*1930
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Natural gas	211510	230470	235570	250440	257080	253110
Total input	211510	230470	235570	250440	257080	253110
Total production	76144	82969	84805	90158	92549	91120
Estimated efficiency (% of production to input)	36	36	36	36	36	36

Statistics on electricity

Niue

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	3	3	3	3	3	*3
Combustible fuels	3	3	3	3	3	*3
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Main activity	3	3	3	3	3	*3
Combustible fuels	3	3	3	3	3	*3
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	3	*3
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	2	*2
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2	2	2	2	*2	*2
Combustible fuels	2	2	2	2	*2	*2
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Main activity	2	2	2	2	*2	*2
Combustible fuels	2	2	2	2	*2	*2
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Combustible fuel input	Terajoules					
Gas-diesel oil	32	30	31	31	34	*34
Total input	32	30	31	31	34	*34
Total production	12	12	12	11	12	*12
Estimated efficiency (% of production to input)	37	40	38	36	35	35

Statistics on electricity

Northern Mariana Islands

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*407	*411	*415	*419	*430	*387
Combustible fuels	*407	*411	*415	*419	*430	*387
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*407	*411	*415	*419	*430	*387
Combustible fuels	*407	*411	*415	*419	*430	*387
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	*407	*411	*415	*419	*430	*387
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*91	*91	*92	*93	*96	*86
Consumption	*316	*319	*322	*326	*334	*301
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*316	*319	*322	*326	*334	*301
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*82	*88	*91	95	*95	95
Combustible fuels	*82	*88	*91	95	*95	95
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*82	*88	*91	95	*95	95
Combustible fuels	*82	*88	*91	95	*95	95
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Total input	..	..	..	..	..	..
Total production	*1464	*1479	*1493	*1508	*1547	*1392
Estimated efficiency (% of production to input)	..	..	..	..	..	..

Statistics on electricity

Norway

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	127562	147663	134072	141970	144546	149630
Combustible fuels	4645	3303	3249	3265	3285	3212
Hydro	121553	142810	128699	136185	138450	144005
Nuclear	..	..	..	..	..	..
Other	1364	1550	2124	2520	2811	2413
Main activity	125055	145099	131647	139383	141950	147032
Combustible fuels	2138	739	824	678	689	614
Hydro	121553	142810	128699	136185	138450	144005
Nuclear	..	..	..	..	..	..
Other	1364	1550	2124	2520	2811	2413
Own use in electricity, CHP and heat plants	523	535	587	629	642	0
Net production	127039	147128	133485	141341	143904	149630
Imports	11254	4191	10135	6347	7371	5740
Exports	14329	22006	15141	21932	22016	22151
Losses	7298	9158	8060	7605	7469	9170
Consumption	115686	118933	118876	116697	120283	122672
Energy industries own use	8038	8617	7877	8115	9206	9027
By industry and construction	44195	43492	43348	44446	45012	45756
By transport	545	622	632	654	821	970
By households and other cons.	62908	66202	67019	63482	65244	66919
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	32082	32860	33486	33697	33837	33825
Combustible fuels	1566	1611	1600	1563	1563	1073
Hydro	29969	30509	31033	31240	31372	31834
Nuclear	..	..	..	..	..	..
Other	547	740	853	894	902	918
Main activity	31529	32307	32933	33144	33284	33272
Combustible fuels	1013	1058	1047	1010	1010	520
Hydro	29969	30509	31033	31240	31372	31834
Nuclear	..	..	..	..	..	..
Other	547	740	853	894	902	918
Combustible fuel input	Terajoules					
Hard Coal	703	618	674	703	703	731
Biogas	93	69	64	193	181	130
Gas-diesel oil	215	258	258	258	172	258
Liquefied petroleum gas	0	0	0	0	0	0
Refinery gas	0	0	0	0	0	..
Natural gas	36305	16130	14820	15492	15345	15362
Blast furnace gas	523	658	845	938	1088	1006
Fuelwood	1300	1035	1269	77	94	309
Municipal waste	5234	6482	8242	9146	8670	8610
Other liquid biofuels	0	0	0	0	0	0
Total input	44372	25250	26172	26806	26252	26406
Total production	16722	11891	11696	11754	11826	11563
Estimated efficiency (% of production to input)	38	47	45	44	45	44

Statistics on electricity

Oman

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	21874	25017	26240	29128	32758	34210
Combustible fuels	21874	25017	26240	29128	32758	34210
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	21874	25017	26240	29128	32758	34210
Combustible fuels	21874	25017	26240	29128	32758	34210
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	520	652	579	785	676	609
Net production	21354	24365	25661	28343	32082	33601
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	2842	3410	2871	3170	3170	3242
Consumption	18513	20956	22790	25173	28912	30359
Energy industries own use	..	..	..	..	..	..
By industry and construction	2584	3436	3686	4189	4723	5153
By transport	..	..	..	..	..	..
By households and other cons.	15929	17520	19104	20984	24189	25206
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	4861	5808	6598	8214	7868	7898
Combustible fuels	4861	5808	6598	8214	7868	7898
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	4861	5808	6598	8214	7868	7898
Combustible fuels	4861	5808	6598	8214	7868	7898
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	5676	6278	7009	7697	8686	9632
Natural gas	257745	289108	285035	305274	325455	311895
Total input	263421	295386	292044	312971	334141	321527
Total production	78746	90061	94464	104861	117929	123156
Estimated efficiency (% of production to input)	30	30	32	34	35	38

Statistics on electricity
Pakistan

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*95090	*96121	*104067	*106966	*111299	*123118
Combustible fuels	*61308	*61711	*66707	*67886	*70512	*81268
Hydro	28517	29857	31873	32474	34633	32183
Nuclear	5265	4553	5090	5804	4605	6999
Other	..	..	397	802	1549	2668
Main activity	55416	57125	60306	60531	65027	71568
Combustible fuels	*21634	*22715	*22946	*21451	*24240	*29718
Hydro	28517	29857	31873	32474	34633	32183
Nuclear	5265	4553	5090	5804	4605	6999
Other	..	..	397	802	1549	2668
Own use in electricity, CHP and heat plants	2382	3340	3757	3984	4123	4502
Net production	*92708	*92781	*100310	*102982	*107176	*118616
Imports	274	375	419	443	463	496
Exports	..	..	..	..	..	..
Losses	16054	16372	16932	17627	17209	23582
Consumption	76761	76788	83409	85818	90429	95529
Energy industries own use	..	..	..	..	..	..
By industry and construction	21801	22313	24356	24979	25035	24010
By transport	1	0	0	0	0	0
By households and other cons.	54959	54475	59053	60839	65394	71519
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*22847	*22918	*23636	*23759	*25889	*29944
Combustible fuels	*15454	*15289	*15887	*15541	*17115	*20488
Hydro	6556	6773	6893	7030	7122	7129
Nuclear	787	750	750	750	750	1090
Other	50	106	106	438	902	1237
Main activity	14494	14735	15079	15388	16670	18908
Combustible fuels	*7101	*7106	*7330	*7170	*7896	*9452
Hydro	6556	6773	6893	7030	7122	7129
Nuclear	787	750	750	750	750	1090
Other	50	106	106	438	902	1237
Combustible fuel input	Terajoules					
Hard Coal	2625	1545	3949	3556	5024	20662
Gas-diesel oil	8308	8944	12470	23134	12040	11954
Fuel oil	299021	*305626	*352975	*342552	302394	333462
Natural gas	281892	296600	276430	286708	359108	361882
Total input	591845	612715	*645824	*655949	678566	727960
Total production	*220709	*222160	*240145	*244390	*253843	*292565
Estimated efficiency (% of production to input)	37	36	37	37	37	40

Statistics on electricity

Palau

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	95	*86	*87	*90	*90	*95
Combustible fuels	95	*86	*87	*90	*90	*95
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	89	*80	*81	*84	*84	*89
Combustible fuels	89	*80	*81	*84	*84	*89
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	*7	*6	*6	*6	*6	*6
Net production	88	*80	*82	*84	*84	*89
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*14	*14	*14	*14	*14	*15
Consumption	72	*64	*65	*67	*67	*71
Energy industries own use	..	..	..	..	..	..
By industry and construction	4	*5	*5	*5	*6	*6
By transport	..	..	..	..	..	..
By households and other cons.	68	*59	*60	*62	*61	*65
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*30	*30	*30	30	30	*30
Combustible fuels	*30	*30	*30	30	30	*30
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*28	*28	*28	28	28	*28
Combustible fuels	*28	*28	*28	28	28	*28
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	*1032	*946	*963	*980	*980	*1075
Total input	*1032	*946	*963	*980	*980	*1075
Total production	341	*309	*315	*323	*323	*341
Estimated efficiency (% of production to input)	33	33	33	33	33	32

Statistics on electricity

Panama

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	7857	8606	8962	9287	10295	10885
Combustible fuels	3759	3218	3808	4136	3604	3666
Hydro	4098	5388	5154	5034	6257	6523
Nuclear	..	..	..	..	..	..
Other	..	..	..	118	435	697
Main activity	7834	8580	8929	9256	10262	10853
Combustible fuels	3736	3192	3775	4105	3570	3634
Hydro	4098	5388	5154	5034	6257	6523
Nuclear	..	..	..	..	..	..
Other	..	..	..	118	435	697
Own use in electricity, CHP and heat plants	175	178	211	200	201	207
Net production	7682	8428	8751	9087	10095	10678
Imports	72	19	75	193	17	30
Exports	8	59	71	99	139	398
Losses	1123	1190	1220	1328	1400	1512
Consumption	6695	7176	7511	7832	8549	8761
Energy industries own use	..	..	..	..	..	..
By industry and construction	660	695	706	689	669	647
By transport	..	..	..	19	42	37
By households and other cons.	6035	6481	6805	7124	7837	8077
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2391	2422	2546	2829	3224	3371
Combustible fuels	1040	954	1032	1148	1202	1235
Hydro	1351	1468	1494	1623	1726	1769
Nuclear	..	..	..	..	..	..
Other	0	0	20	57	296	367
Main activity	2167	2198	2333	2560	2992	3139
Combustible fuels	881	795	879	939	1030	1063
Hydro	1286	1403	1434	1563	1666	1709
Nuclear	..	..	..	..	..	..
Other	0	0	20	57	296	367
Combustible fuel input	Terajoules					
Hard Coal	6115	8333	8798	9082	9133	8075
Gas-diesel oil	10062	3010	5676	9546	2555	1935
Fuel oil	20038	18301	12484	6828	19386	21312
Bagasse	2221	2476	3081	2874	2900	4001
Total input	38436	32121	30038	28329	33974	35324
Total production	13534	11583	13708	14888	12974	13199
Estimated efficiency (% of production to input)	35	36	46	53	38	37

Statistics on electricity

Papua New Guinea

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	3666	3764	3964	4176	4324	4445
Combustible fuels	2275	2359	2546	2734	2890	3020
Hydro	969	983	996	1020	1012	1005
Nuclear	..	..	..	..	..	..
Other	422	422	422	422	422	420
Main activity	885	896	905	940	917	925
Combustible fuels	267	264	260	280	256	275
Hydro	618	632	645	660	661	650
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	1	0	0	0	116
Net production	3666	3763	3964	4176	4324	4329
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*407	*434	454	512	442	337
Consumption	3259	3329	3513	3664	3882	3991
Energy industries own use	..	..	..	..	..	..
By industry and construction	2362	2432	2559	2652	2838	2931
By transport	..	..	..	..	..	..
By households and other cons.	*897	*897	*954	*1012	*1044	*1061
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*788	*795	*865	*872	*855	*858
Combustible fuels	*478	*478	*548	*566	*553	*556
Hydro	254	261	261	250	*249	*249
Nuclear	..	..	..	..	..	..
Other	56	56	56	*56	53	53
Main activity	273	280	280	267	*253	*256
Combustible fuels	118	*118	*118	116	*103	*106
Hydro	155	162	162	151	*150	*150
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	10965	4313	5151	3896	4312	3894
Fuel oil	12928	17921	19263	21856	22273	22693
Natural gas	5896	5024	5150	6155	5359	5443
Total input	29789	27259	29564	31907	31944	32030
Total production	8190	8492	9166	9842	10404	10872
Estimated efficiency (% of production to input)	27	31	31	31	33	34

Statistics on electricity
Paraguay

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	57625	60235	60381	55282	55744	63771
Combustible fuels	1	3	3	6	1	1
Hydro	57624	60232	60378	55276	55743	63770
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	57625	60235	60381	55282	55744	63771
Combustible fuels	1	3	3	6	1	1
Hydro	57624	60232	60378	55276	55743	63770
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	501	504	506	448	451	523
Net production	57124	59730	59875	54834	55293	63248
Imports	..	..	..	..	..	..
Exports	46120	47663	47365	41400	41127	48415
Losses	3433	3845	3492	3402	3590	3821
Consumption	7571	8222	9018	10030	10576	11012
Energy industries own use	..	..	..	..	..	..
By industry and construction	3114	3343	3567	3801	4010	4105
By transport	..	..	..	..	..	..
By households and other cons.	4456	4879	5451	6229	6567	6907
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	8816	8816	8825	8825	8825	8811
Combustible fuels	6	6	15	15	15	1
Hydro	8810	8810	8810	8810	8810	8810
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	8816	8816	8825	8825	8825	8811
Combustible fuels	6	6	15	15	15	1
Hydro	8810	8810	8810	8810	8810	8810
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	6	22	22	57	18	17
Total input	6	22	22	57	18	17
Total production	3	11	11	21	5	5
Estimated efficiency (% of production to input)	58	51	51	37	28	27

Statistics on electricity

Peru

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	38811	40044	43330	45508	48277	52720
Combustible fuels	17248	17951	20812	22882	23729	26630
Hydro	21562	22032	22320	22171	23722	24785
Nuclear	..	..	..	..	..	..
Other	1	61	198	455	826	1305
Main activity	36253	37369	40665	42844	45719	50465
Combustible fuels	15220	15817	18757	20778	21766	25024
Hydro	21032	21491	21709	21611	23127	24136
Nuclear	..	..	..	..	..	..
Other	1	61	198	455	826	1305
Own use in electricity, CHP and heat plants	558	564	589	800	567	1831
Net production	38253	39480	42741	44708	47710	50889
Imports	6	5	0	0	1	22
Exports	0	2	0	13	55	38
Losses	3109	3380	4556	5018	5324	5484
Consumption	35125	35969	38208	39719	42334	45390
Energy industries own use	..	..	..	..	..	..
By industry and construction	18580	19027	20686	21798	23446	26054
By transport	3	3	22	37	48	46
By households and other cons.	16542	16939	17499	17884	18840	19290
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	8691	9699	11051	11203	12089	14517
Combustible fuels	5240	6134	7414	7302	7619	8988
Hydro	3451	3484	3556	3662	4130	5189
Nuclear	..	..	..	..	..	..
Other	1	81	81	239	340	340
Main activity	7314	8267	9635	9739	10511	13044
Combustible fuels	3957	4806	6104	5942	6145	7632
Hydro	3357	3381	3451	3558	4026	5072
Nuclear	..	..	..	..	..	..
Other	1	81	81	239	340	340
Combustible fuel input	Terajoules					
Hard Coal	11863	9752	13489	8095	6694	12095
Biogas	0	877	806	821	985	1372
Gas-diesel oil	7009	7955	5633	5074	5203	8041
Fuel oil	21897	8201	8565	6181	5858	6908
Refinery gas	1238	1238	1287	1485	1485	0
Natural gas	149954	164487	150325	175586	182405	199607
Bagasse	12502	10324	15622	21452	14363	11792
Biodiesel	0	0	0	0	0	..
Total input	204463	202834	195727	218694	216993	239815
Total production	62092	64624	74925	82375	85424	95868
Estimated efficiency (% of production to input)	30	32	38	38	39	40

Statistics on electricity
Philippines

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	69210	72956	75300	77295	82447	90832
Combustible fuels	49463	52360	55592	57664	61835	69561
Hydro	9715	10269	10036	9154	8682	8128
Nuclear	..	..	..	..	..	..
Other	10032	10327	9672	10477	11931	13143
Main activity	69176	72922	75266	77261	82413	90798
Combustible fuels	49446	52343	55575	57647	61818	69544
Hydro	9698	10252	10019	9137	8665	8111
Nuclear	..	..	..	..	..	..
Other	10032	10327	9672	10477	11931	13143
Own use in electricity, CHP and heat plants	5398	5351	5960	6646	7124	8357
Net production	63811	67605	69340	70649	75323	82475
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	7680	8360	7741	7270	7481	8286
Consumption	56097	59211	61566	63345	67808	74154
Energy industries own use	..	..	..	..	..	..
By industry and construction	19334	20071	20677	21429	22514	24119
By transport	111	117	112	111	98	103
By households and other cons.	36653	39023	40777	41805	45196	49933
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	16189	17052	17349	17839	18596	21043
Combustible fuels	10782	11514	11793	12056	12455	14485
Hydro	3507	3537	3537	3559	3632	3450
Nuclear	..	..	..	..	..	..
Other	1900	2001	2019	2224	2509	3108
Main activity	16163	17026	17323	17813	18570	21017
Combustible fuels	10772	11504	11783	12046	12445	14475
Hydro	3491	3521	3521	3543	3616	3434
Nuclear	..	..	..	..	..	..
Other	1900	2001	2019	2224	2509	3108
Combustible fuel input	Terajoules					
Brown Coal	242221	263790	326840	344453	387713	425312
Gas-diesel oil	7977	8514	10866	14732	12711	21251
Fuel oil	25973	32869	35055	44137	47559	31666
Natural gas	147207	141010	128781	135141	127938	146239
Bagasse	998	2034	2122	1817	4590	9867
Municipal waste	1096	925	1499	1640	955	447
Biodiesel	55	152	191	269	233	372
Total input	425527	449296	505355	542188	581699	635153
Total production	178068	188497	200131	207590	222604	250421
Estimated efficiency (% of production to input)	42	42	40	38	38	39

Statistics on electricity

Poland

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	163548	162139	164580	159059	164944	166635
Combustible fuels	157477	154845	155467	148500	151478	151234
Hydro	2761	2465	2997	2734	2435	2622
Nuclear	..	..	..	..	..	..
Other	3310	4829	6116	7825	11031	12779
Main activity	155206	153690	155663	150178	155562	156178
Combustible fuels	149242	146480	146665	139771	142272	140971
Hydro	2759	2463	2994	2731	2432	2619
Nuclear	..	..	..	..	..	..
Other	3205	4747	6004	7676	10858	12588
Own use in electricity, CHP and heat plants	14635	14490	14501	13845	14249	14632
Net production	148913	147649	150079	145214	150695	152003
Imports	6780	9803	7801	13508	14459	14017
Exports	12022	12643	12322	11342	14793	12018
Losses	10638	10884	10247	10250	10534	9495
Consumption	133033	133925	135311	137130	139827	144507
Energy industries own use	11541	11756	11754	11783	12008	11668
By industry and construction	44132	44714	47290	47585	49482	51210
By transport	3317	3200	3156	3007	3107	3287
By households and other cons.	74043	74255	73111	74755	75230	78342
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	34554	35283	35815	35989	37327	38105
Combustible fuels	30405	30365	30027	29760	29961	29783
Hydro	2346	2351	2355	2364	2370	2386
Nuclear	..	..	..	..	..	..
Other	1803	2567	3433	3865	4996	5936
Main activity	32823	33514	34009	34141	35189	36027
Combustible fuels	28678	28600	28226	27942	27934	27895
Hydro	2345	2350	2354	2363	2369	2385
Nuclear	..	..	..	..	..	..
Other	1800	2564	3429	3836	4886	5747
Combustible fuel input	Terajoules					
Hard Coal	1045664	958319	978720	900363	912442	938903
Brown Coal	516512	524934	542388	514876	508760	485377
Biogas	3312	4204	4872	5718	6298	7231
Fuel oil	16402	14665	12726	11352	15837	16443
Natural gas	53135	57640	47363	47736	57442	68953
Coke-oven gas	17958	17309	19410	19325	22755	24895
Blast furnace gas	11001	11328	11729	13937	16242	14630
Fuelwood	*24952	*34647	*40601	*42549	*43633	*44590
Vegetal waste	*51865	*69253	*45098	*52728	*50530	*26554
Municipal waste	403	371	337	237	727	3959
Others	8025	7700	7887	7194	6620	5793
Total input	1749230	1700369	1711131	1616016	1641286	1637328
Total production	566917	557442	559681	534600	545321	544442
Estimated efficiency (% of production to input)	32	33	33	33	33	33

Statistics on electricity

Portugal

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	52463	46614	51672	52802	52420	60280
Combustible fuels	30693	29151	24110	23440	30005	29903
Hydro	12115	6660	14868	16412	9799	16909
Nuclear	..	..	..	..	..	..
Other	9655	10803	12694	12950	12616	13468
Main activity	44116	38270	42662	44367	44126	52123
Combustible fuels	22442	20967	15330	15323	22076	22104
Hydro	12101	6650	14848	16389	9784	16889
Nuclear	..	..	..	..	..	..
Other	9573	10653	12484	12655	12266	13130
Own use in electricity, CHP and heat plants	1335	1361	1261	1276	1482	1469
Net production	51128	45253	50411	51526	50938	58811
Imports	6742	10766	8100	7247	8077	4616
Exports	3929	2871	5324	6344	5811	9701
Losses	4090	4707	5455	5209	4895	4881
Consumption	49851	48441	47732	47220	48309	48845
Energy industries own use	1487	2200	2475	2025	2497	2492
By industry and construction	16957	15932	15993	15395	15481	15083
By transport	404	401	301	302	308	385
By households and other cons.	31003	29908	28963	29498	30023	30885
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	19924	19747	18900	19125	19625	20561
Combustible fuels	9936	9360	8308	8113	8048	7990
Hydro	5535	5712	5661	5715	6168	6960
Nuclear	..	..	..	..	..	..
Other	4453	4675	4931	5297	5409	5611
Main activity	17969	17635	16841	17020	17575	18569
Combustible fuels	8051	7357	6409	6205	6205	6209
Hydro	5529	5706	5655	5709	6162	6954
Nuclear	..	..	..	..	..	..
Other	4389	4572	4777	5106	5208	5406
Combustible fuel input	Terajoules					
Hard Coal	92278	121920	110009	111645	135911	118603
Biogas	1883	2362	2736	3078	3121	2996
Gas-diesel oil	860	860	860	903	989	774
Fuel oil	19796	15958	11393	9494	9656	9938
Refinery gas	743	941	1188	941	644	396
Natural gas	127891	98507	79197	72602	97300	110638
Vegetal waste	*8748	*8891	*13053	*13111	*9605	*6418
Municipal waste	8245	7197	8097	6845	8155	8680
Industrial waste	216	127	101	91	79	580
Biodiesel	..	..	37	37	74	37
Total input	260659	256763	226670	218746	265532	259060
Total production	110495	104944	86796	84384	108018	107651
Estimated efficiency (% of production to input)	42	41	38	39	41	42

Statistics on electricity
Puerto Rico

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	22509	22587	21812	21316	21160	20894
Combustible fuels	22358	22429	21509	20969	20771	20505
Hydro	150	125	91	81	56	71
Nuclear	..	..	..	..	..	..
Other	2	33	213	266	333	318
Main activity	22259	22337	21562	21066	20910	20644
Combustible fuels	22108	22179	21259	20719	20521	20255
Hydro	150	125	91	81	56	71
Nuclear	..	..	..	..	..	..
Other	2	33	213	266	333	318
Own use in electricity, CHP and heat plants	620	633	553	795	602	*594
Net production	21890	21954	21259	20522	20558	20300
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*3375	*3498	*2906	*2900	*3073	*2988
Consumption	18515	18456	18353	17621	17485	17312
Energy industries own use	..	..	..	..	..	..
By industry and construction	2882	2779	2579	2338	2355	2250
By transport	..	..	..	..	..	..
By households and other cons.	15633	15676	15774	15283	15130	15062
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	5905	6008	6083	*6097	*6112	6257
Combustible fuels	5800	5800	5800	*5800	*5800	5900
Hydro	100	100	100	99	99	99
Nuclear	..	..	..	..	..	..
Other	5	108	183	198	213	258
Main activity	5844	5947	6022	*6036	*6051	6196
Combustible fuels	5739	5739	5739	*5739	*5739	5839
Hydro	100	100	100	99	99	99
Nuclear	..	..	..	..	..	..
Other	5	108	183	198	213	258
Combustible fuel input	Terajoules					
Hard Coal	38700	38700	32327	36688	34133	36352
Fuel oil	145739	138685	111423	106688	115952	102071
Natural gas	28712	53006	60736	60736	57717	65818
Total input	213151	230391	204487	204112	207802	204241
Total production	80488	80743	77431	75489	74776	73819
Estimated efficiency (% of production to input)	38	35	38	37	36	36

Statistics on electricity

Qatar

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	30730	34787	34668	38692	41499	42307
Combustible fuels	30730	34787	34668	38692	41499	42307
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	2360	2988	3090	3502	2501	2550
Combustible fuels	2360	2988	3090	3502	2501	2550
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	2347	2436	2444	2568	2647	2642
Net production	28383	32351	32224	36124	38852	39665
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	624	2168	2159	2341	2475	2532
Consumption	27759	30184	30066	33784	36378	37134
Energy industries own use	..	..	..	..	..	..
By industry and construction	9089	9798	9944	11568	11887	12026
By transport	..	..	..	..	..	..
By households and other cons.	18670	20386	20122	22216	24491	25108
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	8751	8751	8751	8751	8751	8751
Combustible fuels	8751	8751	8751	8751	8751	8751
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	2190	2190	2190	2190	2190	2190
Combustible fuels	2190	2190	2190	2190	2190	2190
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Natural gas	299648	341440	442417	381028	399818	407605
Total input	299648	341440	442417	381028	399818	407605
Total production	110628	125233	124805	139291	149396	152305
Estimated efficiency (% of production to input)	37	37	28	37	37	37

Statistics on electricity
Republic of Moldova

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	3495	3364	2779	3573	4239	4230
Combustible fuels	940	898	859	902	885	862
Hydro	76	34	45	59	50	39
Nuclear	..	..	..	..	..	..
Other	2479	2432	1875	2612	3304	3329
Main activity	3461	3332	2736	3503	4199	4188
Combustible fuels	906	866	816	832	845	820
Hydro	76	34	45	59	50	39
Nuclear	..	..	..	..	..	..
Other	2479	2432	1875	2612	3304	3329
Own use in electricity, CHP and heat plants	136	129	124	126	134	136
Net production	3359	3235	2655	3447	4105	4094
Imports	666	846	1456	731	18	4
Exports	..	..	..	..	..	..
Losses	453	446	431	481	393	428
Consumption	3571	3636	3682	3698	3727	3667
Energy industries own use	191	166	37	49	41	45
By industry and construction	815	845	872	906	773	751
By transport	50	54	59	47	49	62
By households and other cons.	2515	2571	2714	2696	2864	2809
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	503	487	487	483	491	463
Combustible fuels	487	471	470	465	473	443
Hydro	16	16	16	16	16	16
Nuclear	..	..	..	..	..	..
Other	..	0	1	2	2	4
Main activity	346	346	347	348	348	350
Combustible fuels	330	330	330	330	330	330
Hydro	16	16	16	16	16	16
Nuclear	..	..	..	..	..	..
Other	..	0	1	2	2	4
Combustible fuel input	Terajoules					
Hard Coal	0	0	0	0	0	0
Biogas	..	0	36	178	401	361
Gas-diesel oil	0	0	0	0	0	0
Fuel oil	606	485	566	485	283	485
Other oil products	*16	*8	0	0	0	*8
Natural gas	13080	12698	12061	12931	11874	11660
Fuelwood	..	0	0	0	0	0
Vegetal waste	0	0	0	0	0	0
Industrial waste	0	0	0	0	0	0
Total input	13702	13191	12663	13594	12558	12514
Total production	3384	3233	3092	3247	3186	3103
Estimated efficiency (% of production to input)	25	25	24	24	25	25

Statistics on electricity
Réunion

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	2750	2811	2813	2857	2891	2944
Combustible fuels	2195	2114	2017	2180	2135	2201
Hydro	402	488	557	426	496	465
Nuclear	..	..	..	..	..	..
Other	153	209	239	252	260	278
Main activity	2750	2811	2813	2857	2891	2944
Combustible fuels	2195	2114	2017	2180	2135	2201
Hydro	402	488	557	426	496	465
Nuclear	..	..	..	..	..	..
Other	153	209	239	252	260	278
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	2750	2811	2813	2857	2891	2944
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	243	284	269	259	234	235
Consumption	2498	2540	2555	2598	2657	2709
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	2498	2540	2555	2598	2657	2709
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	751	810	873	827	840	855
Combustible fuels	472	510	564	505	505	520
Hydro	133	133	134	134	134	133
Nuclear	..	..	..	..	..	..
Other	146	167	175	188	201	201
Main activity	751	810	873	827	840	855
Combustible fuels	472	510	564	505	505	520
Hydro	133	133	134	134	134	133
Nuclear	..	..	..	..	..	..
Other	146	167	175	188	201	201
Combustible fuel input	Terajoules					
Hard Coal	17681	18349	17570	16530	16213	15800
Biogas	80	96	155	138	176	176
Gas-diesel oil	2365	1780	331	224	249	254
Fuel oil	3676	3123	3592	5612	5507	6482
Bagasse	4082	4095	3920	4145	4396	4171
Total input	27884	27443	25567	26649	26540	26882
Total production	7901	7610	7262	7848	7686	7924
Estimated efficiency (% of production to input)	28	28	28	29	29	29

Statistics on electricity

Romania

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	62217	59045	58887	65676	66296	65103
Combustible fuels	34135	32594	27021	26903	28604	26871
Hydro	14946	12337	15308	19280	17007	18536
Nuclear	11747	11466	11618	11676	11640	11286
Other	1389	2648	4940	7817	9045	8410
Main activity	59437	54793	52368	59581	58889	57978
Combustible fuels	31509	28686	21103	21866	22215	20561
Hydro	14817	12179	15062	18953	16603	18213
Nuclear	11747	11466	11618	11676	11640	11286
Other	1364	2462	4585	7086	8431	7918
Own use in electricity, CHP and heat plants	5727	5351	4753	4977	5019	4847
Net production	56490	53694	54134	60699	61277	60256
Imports	3410	3903	2737	2811	4492	4177
Exports	5316	3650	4753	9937	11220	9194
Losses	7141	7062	7021	7097	7161	7125
Consumption	47533	47213	45408	46424	47284	47802
Energy industries own use	4819	4827	4780	4519	4254	4545
By industry and construction	21083	20405	18823	19855	20525	20817
By transport	1424	1228	1126	1062	1082	1048
By households and other cons.	20207	20753	20679	20988	21423	21392
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	20499	21774	23033	24054	23943	23692
Combustible fuels	11616	11945	11393	11323	11233	11048
Hydro	6483	6548	6610	6613	6730	6734
Nuclear	1411	1411	1411	1411	1411	1411
Other	989	1870	3619	4707	4569	4499
Main activity	19734	19734	19974	20896	20935	20880
Combustible fuels	10948	10425	9064	8981	8895	8897
Hydro	6411	6455	6509	6523	6619	6644
Nuclear	1411	1411	1411	1411	1411	1411
Other	964	1443	2990	3981	4010	3928
Combustible fuel input	Terajoules					
Brown Coal	309994	276108	208366	207524	216668	190559
Biogas	88	183	422	597	594	472
Gas-diesel oil	215	258	344	215	129	129
Fuel oil	7676	4888	1535	889	1252	1656
Refinery gas	5792	5396	3020	2525	1881	5198
Petroleum coke	..	..	..	..	..	3250
Natural gas	114919	116627	102871	95207	109341	114034
Blast furnace gas	315	235	449	690	1265	1336
Fuelwood	1366	1772	1947	5005	5383	6034
Industrial waste	0	0	2	2	2	2
Others	1849	2935	4020	4543	4141	0
Total input	442213	408401	322976	317196	340656	322670
Total production	122886	117338	97276	96851	102974	96736
Estimated efficiency (% of production to input)	28	29	30	31	30	30

Statistics on electricity
Russian Federation

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1054765	1070734	1059092	1064207	1067544	1090973
Combustible fuels	713689	725399	703481	705598	701220	706663
Hydro	167608	167319	182654	177141	169914	186640
Nuclear	172941	177534	172508	180757	195470	196614
Other	527	482	449	711	940	1056
Main activity	990657	1003553	994597	997475	995548	1016191
Combustible fuels	650687	659241	640434	640412	630719	633211
Hydro	166502	166296	181206	175595	168419	185310
Nuclear	172941	177534	172508	180757	195470	196614
Other	527	482	449	711	940	1056
Own use in electricity, CHP and heat plants	68259	69232	64342	69550	75596	70201
Net production	986506	1001502	994750	994657	991948	1020772
Imports	1558	2661	4706	6623	6586	3194
Exports	24111	19143	18382	14671	18244	17694
Losses	105002	106667	106994	106567	106553	107247
Consumption	858951	876939	874080	880042	873737	899025
Energy industries own use	130127	136654	129989	142212	147419	154341
By industry and construction	332818	338608	336692	333701	329000	326343
By transport	90355	92041	90559	90256	82120	82569
By households and other cons.	305651	309636	316840	313873	315198	335772
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	222984	232685	239423	259020	257075	266526
Combustible fuels	151114	157845	163926	182465	179148	187611
Hydro	47479	49445	50104	50845	50998	51016
Nuclear	24300	25304	25304	25304	26304	27189
Other	91	91	89	406	625	710
Main activity	205454	214320	219789	233660	232223	240357
Combustible fuels	134143	139784	144744	157592	154773	161892
Hydro	46920	49141	49652	50358	50521	50566
Nuclear	24300	25304	25304	25304	26304	27189
Other	91	91	89	406	625	710
Combustible fuel input	Terajoules					
Hard Coal	1515618	1704144	1412388	1319217	1468222	1443157
Brown Coal	957586	947024	908342	857293	969909	916234
Peat	9178	6886	12098	11041	5790	7264
Gas-diesel oil	59942	59727	56373	58480	62823	50224
Fuel oil	324170	332977	82820	90658	96798	83386
Refinery gas	2673	2030	1931	2079	2129	2376
Natural gas	7876206	8031618	8427679	7890479	7522764	7260211
Coke-oven gas	74001	70030	70600	69246	69503	68586
Blast furnace gas	123099	42842	51219	52344	56294	52739
Industrial waste	80023	79347	80246	82455	85289	90771
Others	1348	1437	1213	1152	1166	1610
Total input	11023843	11278062	11104908	10434444	10340686	9976558
Total production	2569280	2611436	2532532	2540153	2524392	2543987
Estimated efficiency (% of production to input)	23	23	23	24	24	25

Statistics on electricity

Rwanda

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	346	393	413	476	524	634
Combustible fuels	196	211	265	266	226	342
Hydro	149	182	148	205	284	278
Nuclear	..	..	..	..	..	..
Other	0	0	0	5	14	14
Main activity	346	393	413	476	524	634
Combustible fuels	196	211	265	266	226	342
Hydro	149	182	148	205	284	278
Nuclear	..	..	..	..	..	..
Other	0	0	0	5	14	14
Own use in electricity, CHP and heat plants	24	24	24	38	11	0
Net production	322	369	389	438	512	634
Imports	78	91	94	90	83	78
Exports	5	3	0	4	3	4
Losses	*68	*78	*95	*86	121	145
Consumption	326	380	388	438	419	*560
Energy industries own use	..	..	..	..	..	..
By industry and construction	68	77	79	83	96	*150
By transport	..	..	..	..	..	..
By households and other cons.	259	302	309	355	322	*410
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	90	100	104	141	171	192
Combustible fuels	41	51	51	51	81	98
Hydro	49	49	52	80	80	84
Nuclear	..	..	..	..	..	..
Other	0	0	0	9	9	9
Main activity	90	100	104	141	171	192
Combustible fuels	41	51	51	51	81	98
Hydro	49	49	52	80	80	84
Nuclear	..	..	..	..	..	..
Other	0	0	0	9	9	9
Combustible fuel input	Terajoules					
Gas-diesel oil	*1952	*2081	*2623	*2580	*2081	*2064
Natural gas	*63	*91	*102	*161	*240	*1100
Total input	*2015	*2172	*2725	*2741	*2321	*3164
Total production	705	760	954	959	813	1230
Estimated efficiency (% of production to input)	35	35	35	35	35	39

Statistics on electricity
Samoa

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	109	112	113	125	131	149
Combustible fuels	74	75	80	95	97	101
Hydro	35	37	32	30	31	33
Nuclear	..	..	..	..	..	..
Other	..	..	..	0	4	16
Main activity	109	112	113	125	131	149
Combustible fuels	74	75	80	95	97	101
Hydro	35	37	32	30	31	33
Nuclear	..	..	..	..	..	..
Other	..	..	..	0	4	16
Own use in electricity, CHP and heat plants	2	2	2	3	3	3
Net production	107	110	111	123	129	147
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*17	*17	*17	*15	*12	*12
Consumption	90	93	93	107	116	134
Energy industries own use	..	..	..	..	..	..
By industry and construction	5	6	6	8	9	6
By transport	..	..	..	..	..	..
By households and other cons.	84	87	87	100	107	129
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*42	*42	*42	38	*43	*45
Combustible fuels	*30	*30	*30	26	*25	*26
Hydro	*12	*12	*12	12	11	*11
Nuclear	..	..	..	..	..	..
Other	..	..	..	*1	7	*9
Main activity	*39	*39	*39	36	*40	*43
Combustible fuels	*27	*27	*27	23	*23	*23
Hydro	*12	*12	*12	12	11	*11
Nuclear	..	..	..	..	..	..
Other	..	..	..	*1	7	*9
Combustible fuel input	Terajoules					
Gas-diesel oil	731	757	791	920	882	*929
Total input	731	757	791	920	882	*929
Total production	266	271	289	341	348	363
Estimated efficiency (% of production to input)	36	36	37	37	40	39

Statistics on electricity

Sao Tome and Principe

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	67	77	71	*77	*81	86
Combustible fuels	61	71	65	*70	*75	79
Hydro	6	6	6	8	7	*7
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	67	77	71	*77	*81	86
Combustible fuels	61	71	65	*70	*75	79
Hydro	6	6	6	8	7	*7
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	7	10	4	*5	*6	*6
Net production	60	67	67	*73	*76	80
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*16	*16	*16	*15	*12	12
Consumption	*44	*51	*51	*58	*64	*69
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*44	*51	*51	*58	*64	*69
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*23	*23	*23	*23	*26	*26
Combustible fuels	*21	*21	*21	*21	*24	*24
Hydro	2	2	2	2	2	2
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*23	*23	*23	*23	*26	*26
Combustible fuels	*21	*21	*21	*21	*24	*24
Hydro	2	2	2	2	2	2
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	499	679	718	*624	*648	*675
Total input	499	679	718	*624	*648	*675
Total production	220	254	234	*251	*268	286
Estimated efficiency (% of production to input)	44	37	33	40	41	42

Statistics on electricity
Saudi Arabia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	250077	271666	284010	311804	338331	345104
Combustible fuels	250077	271665	284009	311803	338330	345103
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	1	1	1	1	1
Main activity	190280	216840	226114	251728	263510	260614
Combustible fuels	190280	216839	226113	251727	263509	260613
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	1	1	1	1	1
Own use in electricity, CHP and heat plants	6128	6826	6562	7568	7970	8019
Net production	243949	264840	277448	304236	330361	337085
Imports	..	416	434	466	461	343
Exports	..	470	482	515	512	1062
Losses	23508	23780	20017	21144	25596	27936
Consumption	219662	241074	257438	283096	305092	308107
Energy industries own use	9269	9767	9212	10981	12327	13438
By industry and construction	32320	32075	41947	48442	49494	*51149
By transport	..	..	..	..	..	..
By households and other cons.	178073	199232	206279	223673	243271	243520
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	51149	53589	58463	65507	69156	74703
Combustible fuels	51149	53588	58462	65506	69155	74702
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	1	1	1	1	1
Main activity	38919	45363	50040	55340	58177	62579
Combustible fuels	38919	45362	50039	55339	58176	62578
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	1	1	1	1	1
Combustible fuel input	Terajoules					
Crude oil	926455	920575	812710	952384	983602	*937537
Gas-diesel oil	547304	575383	592540	541155	539779	*474419
Fuel oil	148026	178164	181234	262398	287608	*315241
Natural gas	1380378	1538835	1751556	1801750	2194514	*2322614
Total input	3002162	3212957	3338040	3557688	4005503	*4049811
Total production	900277	977994	1022432	1122491	1217988	1242371
Estimated efficiency (% of production to input)	30	30	31	32	30	31

Statistics on electricity
Senegal

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	2560	2917	3253	3575	3818	4097
Combustible fuels	2560	2917	3185	3542	3779	4044
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	68	33	39	53
Main activity	1357	1421	2730	2909	3105	3239
Combustible fuels	1357	1421	2730	2909	3105	3239
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	34	41	39	49	54	54
Net production	2526	2876	3214	3526	3764	4043
Imports	257	290	308	318	333	360
Exports	..	..	..	..	..	..
Losses	265	302	593	599	631	670
Consumption	2032	2313	3079	3245	3466	3734
Energy industries own use	..	..	..	..	..	..
By industry and construction	751	858	846	836	951	1073
By transport	..	..	..	..	..	..
By households and other cons.	1281	1455	2233	2409	2515	2661
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	827	854	*854	*875	886	*892
Combustible fuels	827	854	*802	*823	834	*840
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	*52	*52	*52	*52
Main activity	483	489	*489	*489	508	*510
Combustible fuels	483	489	*489	*489	508	*510
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Hard Coal	..	..	..	311	2980	5779
Gas-diesel oil	7224	8686	5891	6321	4945	2365
Fuel oil	18099	18099	21735	23715	26179	28684
Natural gas	752	1083	1519	1466	946	878
Bagasse	*2831	*2229	*1370	*1430	*1522	*2621
Total input	28906	30097	30515	33243	36573	40327
Total production	9216	10501	11466	12751	13604	14558
Estimated efficiency (% of production to input)	32	35	38	38	37	36

Statistics on electricity

Serbia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	38600	36799	39877	34060	38298	39342
Combustible fuels	29357	26885	29024	22437	27504	27784
Hydro	9243	9914	10853	11617	10783	11520
Nuclear	..	..	..	..	..	..
Other	..	..	..	6	11	38
Main activity	38370	36628	39675	33771	37980	38889
Combustible fuels	29127	26714	28822	22148	27186	27331
Hydro	9243	9914	10853	11617	10783	11520
Nuclear	..	..	..	..	..	..
Other	..	..	..	6	11	38
Own use in electricity, CHP and heat plants	2807	2597	2707	2161	2659	2714
Net production	35793	34202	37170	31899	35639	36628
Imports	6701	5781	4077	7008	6303	5068
Exports	6979	5392	6614	5445	7221	6990
Losses	5844	5609	5501	5163	5169	4808
Consumption	29671	28982	29132	28299	29552	29898
Energy industries own use	1680	1815	2229	2255	2605	2566
By industry and construction	7473	6931	7079	7042	7297	7731
By transport	529	492	478	336	351	352
By households and other cons.	19989	19744	19346	18666	19299	19249
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	7203	7204	7163	7326	7358	7410
Combustible fuels	4348	4349	4232	4303	4327	4352
Hydro	2855	2855	2931	3017	3022	3030
Nuclear	..	..	..	..	..	..
Other	..	..	..	6	9	28
Main activity	7144	7144	7102	7249	7281	7281
Combustible fuels	4289	4289	4171	4226	4250	4223
Hydro	2855	2855	2931	3017	3022	3030
Nuclear	..	..	..	..	..	..
Other	..	..	..	6	9	28
Combustible fuel input	Terajoules					
Hard Coal	0	0	140	0	0	0
Brown Coal	316532	290771	304399	233364	291528	289300
Lignite briquettes	860	736	667	389	705	726
Biogas	..	39	171	126	140	210
Gas-diesel oil	0	0	0	0	0	0
Fuel oil	525	444	40	40	40	81
Natural gas	10298	8588	8033	7087	4997	5331
Blast furnace gas	3757	991	1142	1841	3071	3929
Fuelwood	0	0	78	78	100	90
Industrial waste	0	0	12	17	15	23
Others	0	0	0	0	0	0
Total input	331972	301569	314682	242942	300597	299689
Total production	105685	96786	104486	80773	99014	100022
Estimated efficiency (% of production to input)	32	32	33	33	33	33

Statistics on electricity

Seychelles

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	324	336	354	363	378	*409
Combustible fuels	324	336	347	355	369	*391
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	7	8	9	*18
Main activity	324	336	354	363	378	*409
Combustible fuels	324	336	347	355	369	*391
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	7	8	9	*18
Own use in electricity, CHP and heat plants	10	9	10	10	11	0
Net production	314	327	344	352	367	*409
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	37	40	40	41	*42	43
Consumption	280	314	307	313	324	366
Energy industries own use	..	..	..	..	..	..
By industry and construction	138	165	177	182	187	209
By transport	..	..	..	..	..	..
By households and other cons.	142	148	130	131	137	157
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	79	79	85	87	87	88
Combustible fuels	79	79	79	80	80	80
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	6	7	7	8
Main activity	79	79	85	87	87	88
Combustible fuels	79	79	79	80	80	80
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	6	7	7	8
Combustible fuel input	Terajoules					
Gas-diesel oil	121	30	15	*15	*17	*18
Fuel oil	2467	2640	2705	*2784	*3099	*3196
Total input	2588	2670	2720	*2799	*3116	*3214
Total production	1166	1211	1250	1278	1328	*1408
Estimated efficiency (% of production to input)	45	45	46	46	43	44

Statistics on electricity
Sierra Leone

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	176	179	164	181	*205	*208
Combustible fuels	22	61	59	63	*80	*81
Hydro	153	118	105	118	*125	*127
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	176	179	164	181	*205	*208
Combustible fuels	22	61	59	63	*80	*81
Hydro	153	118	105	118	*125	*127
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	1	0	0	2	0	*1
Net production	175	178	164	178	*205	*207
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	89	78	95	78	*95	*95
Consumption	86	100	69	86	*110	*112
Energy industries own use	..	..	..	..	..	..
By industry and construction	35	32	29	35	*40	*41
By transport	..	..	..	..	..	..
By households and other cons.	52	67	40	52	*70	*71
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	77	77	77	77	133	137
Combustible fuels	27	27	27	27	77	77
Hydro	50	50	50	50	56	60
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	0	0
Main activity	77	77	77	77	133	137
Combustible fuels	27	27	27	27	77	77
Hydro	50	50	50	50	56	60
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	0	0
Combustible fuel input	Terajoules					
Gas-diesel oil	*258	*688	*688	*731	*946	*946
Total input	*258	*688	*688	*731	*946	*946
Total production	80	218	212	225	*288	*292
Estimated efficiency (% of production to input)	31	32	31	31	30	31

Statistics on electricity
Singapore

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	45999	46936	47963	49310	50272	51587
Combustible fuels	45999	46936	47963	49310	50272	51587
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	44684	45219	45160	46336	47031	48066
Combustible fuels	44684	45219	45160	46336	47031	48066
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	1	0
Net production	45999	46936	47963	49310	50271	51587
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	2468	2289	2383	2548	2428	2431
Consumption	43007	44201	44949	46403	47514	48626
Energy industries own use	..	..	..	..	..	..
By industry and construction	*18077	*18572	*18843	*19753	*20088	*20418
By transport	2224	2329	2369	2441	2445	2640
By households and other cons.	22706	23300	23737	24209	24981	25568
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	10135	10304	11437	13073	13055	13446
Combustible fuels	10131	10296	11425	13047	13009	13348
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	5	8	12	26	46	97
Main activity	9829	9990	10935	12571	12641	13028
Combustible fuels	9825	9982	10923	12545	12595	12931
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	5	8	12	26	46	97
Combustible fuel input	Terajoules					
Hard Coal	..	80	5631	9600	10714	10851
Gas-diesel oil	9675	5762	1075	86	43	1380
Fuel oil	69407	49732	19917	2586	1939	2424
Refinery gas	14256	12227	10841	8366	7821	3119
Natural gas	285758	314224	353928	375435	379527	350192
Municipal waste	25263	26008	26917	27063	27830	27436
Total input	404360	408033	418309	423135	427874	395401
Total production	165598	168970	172668	177515	180977	185712
Estimated efficiency (% of production to input)	41	41	41	42	42	47

Statistics on electricity

Sint Maarten (Dutch part)

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	..	*342	355	*358	*369	*376
Combustible fuels	..	*342	355	*358	*369	*376
Hydro
Nuclear
Other
Main activity	..	*342	355	*358	*369	*376
Combustible fuels	..	*342	355	*358	*369	*376
Hydro
Nuclear
Other
Own use in electricity, CHP and heat plants	..	0	0	0	0	0
Net production	..	*342	355	*358	*369	*376
Imports
Exports
Losses	..	*31	32	*32	*33	*34
Consumption	..	312	323	326	336	342
Energy industries own use
By industry and construction	..	57	58	53	58	60
By transport
By households and other cons.	..	254	265	272	278	283
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	..	97	97	97	97	97
Combustible fuels	..	97	97	97	97	97
Hydro
Nuclear
Other
Main activity	..	97	97	97	97	97
Combustible fuels	..	97	97	97	97	97
Hydro
Nuclear
Other
Combustible fuel input	Terajoules					
Fuel oil	..	*3091	3167	*3248	*3361	*3470
Total input	..	*3091	3167	*3248	*3361	*3470
Total production	..	*1232	1279	*1288	*1328	*1353
Estimated efficiency (% of production to input)	..	40	40	40	40	39

Statistics on electricity
Slovakia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	28656	28664	28832	27401	26903	27064
Combustible fuels	8619	8231	7283	6719	7008	7015
Hydro	4146	4439	5166	4462	4137	4606
Nuclear	15411	15495	15720	15499	15146	14774
Other	480	499	663	721	612	669
Main activity	26164	26128	26362	24361	23835	23980
Combustible fuels	6623	6192	5458	4402	4489	4542
Hydro	4045	4351	5060	4346	4052	4508
Nuclear	15411	15495	15720	15499	15146	14774
Other	85	90	124	114	148	156
Own use in electricity, CHP and heat plants	2566	2527	1660	2394	2145	2067
Net production	26090	26137	27172	25007	24758	24997
Imports	11227	13472	10719	12964	14999	13249
Exports	10500	13079	10628	11862	12611	10598
Losses	515	1274	760	667	1363	1332
Consumption	26299	25237	26491	25426	25768	26300
Energy industries own use	1487	1300	1407	1269	1397	1313
By industry and construction	11241	11908	11785	12237	11605	12085
By transport	536	560	567	574	602	607
By households and other cons.	13035	11469	12732	11346	12164	12295
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	8363	8412	8458	8092	7782	7742
Combustible fuels	3382	3416	3432	3068	2754	2710
Hydro	2523	2522	2523	2523	2522	2524
Nuclear	1940	1939	1940	1940	1940	1940
Other	518	535	563	561	566	568
Main activity	7362	7370	7385	6947	6658	6643
Combustible fuels	2820	2833	2847	2411	2119	2106
Hydro	2494	2493	2493	2493	2495	2493
Nuclear	1940	1939	1940	1940	1940	1940
Other	108	105	105	103	104	104
Combustible fuel input	Terajoules					
Hard Coal	18980	18850	17031	15816	14279	14739
Brown Coal	34024	30437	28653	27261	28042	31222
Biogas	1072	1776	2072	3857	4574	4991
Fuel oil	11150	10262	8928	6504	8201	9534
Natural gas	30484	28153	26454	19005	19379	18955
Coke-oven gas	1102	1095	887	961	1277	1077
Blast furnace gas	1756	1857	1697	1661	1438	1328
Fuelwood	*4946	*8488	*7809	*6809	*7284	9237
Municipal waste	907	950	735	775	1090	1236
Black liquor	*5106	*7629	*8055	*6297	*5549	*5645
Others	*2032	1260	2485	2390	*4223	1791
Total input	111559	110756	104806	91336	95336	99755
Total production	31028	29632	26219	24188	25229	25254
Estimated efficiency (% of production to input)	28	27	25	26	26	25

Statistics on electricity

Slovenia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	16059	15736	16103	17437	15100	16500
Combustible fuels	6073	5958	5661	4440	5081	5730
Hydro	3706	4087	4923	6366	4091	4782
Nuclear	6215	5528	5300	6370	5648	5715
Other	65	163	219	261	280	273
Main activity	15623	15202	15481	16688	14412	15746
Combustible fuels	5825	5707	5414	4169	4813	5463
Hydro	3581	3961	4757	6138	3937	4555
Nuclear	6215	5528	5300	6370	5648	5715
Other	2	6	10	11	14	13
Own use in electricity, CHP and heat plants	1058	1031	986	951	913	954
Net production	15001	14705	15117	16486	14187	15546
Imports	7036	7452	7521	7254	9045	8359
Exports	8408	8491	8811	9997	9093	9535
Losses	824	875	848	821	864	876
Consumption	12805	12791	12979	12922	13275	13493
Energy industries own use	305	363	500	463	487	468
By industry and construction	5864	5922	5878	6057	6199	6234
By transport	164	159	154	136	152	166
By households and other cons.	6472	6347	6447	6266	6437	6625
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	3268	3351	3434	3454	3360	3536
Combustible fuels	1270	1267	1256	1242	1133	1318
Hydro	1253	1254	1299	1296	1295	1293
Nuclear	688	688	688	688	688	688
Other	57	142	191	228	244	237
Main activity	3040	3058	3095	3070	2965	3148
Combustible fuels	1213	1227	1214	1192	1086	1272
Hydro	1137	1138	1183	1180	1179	1177
Nuclear	688	688	688	688	688	688
Other	2	5	10	10	12	11
Combustible fuel input	Terajoules					
Hard Coal	51	76	131	101	135	136
Brown Coal	58793	56744	53877	42032	42816	40630
Biogas	1404	1497	1357	1203	1163	1196
Gas-diesel oil	129	129	86	344	172	86
Fuel oil	40	0	0	0	0	..
Natural gas	4789	5158	4824	3153	3588	3638
Fuelwood	*1566	*1380	*1495	*1467	*1761	*1744
Industrial waste	263	316	310	321	330	357
Biodiesel	..	..	..	37	37	37
Total input	67035	65300	62080	48658	50002	47824
Total production	21863	21449	20380	15984	18292	20628
Estimated efficiency (% of production to input)	33	33	33	33	37	43

Statistics on electricity
Solomon Islands

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	83	83	89	94	97	104
Combustible fuels	83	83	89	92	95	102
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	*2	*2	*2
Main activity	75	75	81	86	88	95
Combustible fuels	75	75	81	84	86	93
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	*2	*2	*2
Own use in electricity, CHP and heat plants	2	2	*2	*2	*2	*2
Net production	81	81	87	92	95	102
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*10	*10	*10	*10	*12	*12
Consumption	71	*71	77	*82	*83	*90
Energy industries own use	..	..	..	..	..	..
By industry and construction	*31	*31	*30	*35	*33	*35
By transport	..	..	..	..	..	..
By households and other cons.	40	*41	47	*47	*50	*54
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*36	*36	*36	*37	*37	*37
Combustible fuels	*36	*36	*36	*36	*36	*36
Hydro	0	0	0	0	0	0
Nuclear	..	..	..	..	..	..
Other	..	..	..	*1	*1	*1
Main activity	*31	*31	*31	*32	*32	*32
Combustible fuels	*31	*31	*31	*31	*31	*31
Hydro	0	0	0	0	0	0
Nuclear	..	..	..	..	..	..
Other	..	..	..	*1	*1	*1
Combustible fuel input	Terajoules					
Gas-diesel oil	*1011	*1019	*1148	*1165	*1161	*1011
Total input	*1011	*1019	*1148	*1165	*1161	*1011
Total production	298	300	321	331	341	366
Estimated efficiency (% of production to input)	29	29	28	28	29	36

Statistics on electricity
Somalia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	334	340	350	350	350	350
Combustible fuels	334	340	350	350	350	350
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	334	340	350	350	350	350
Combustible fuels	334	340	350	350	350	350
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	334	340	350	350	350	350
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*33	*32	*35	*35	*35	*35
Consumption	301	308	315	315	315	315
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	301	308	315	315	315	315
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	80	80	80	80	80	80
Combustible fuels	80	80	80	80	80	80
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	80	80	80	80	80	80
Combustible fuels	80	80	80	80	80	80
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	*3655	*3698	*4214	*4214	*4214	*4300
Total input	*3655	*3698	*4214	*4214	*4214	*4300
Total production	1202	1224	1260	1260	1260	1260
Estimated efficiency (% of production to input)	33	33	30	30	30	29

Statistics on electricity
South Africa

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	262538	257919	256073	252578	249655	252747
Combustible fuels	243980	241717	237871	232516	228825	226927
Hydro	5019	4211	4040	4082	3720	3994
Nuclear	13502	11954	14106	13794	12237	15026
Other	37	37	56	2186	4873	6800
Main activity	251746	247516	244851	240401	233391	233673
Combustible fuels	233378	231479	226828	222649	217282	214382
Hydro	4866	4083	3917	3958	3607	3873
Nuclear	13502	11954	14106	13794	12237	15026
Other	..	..	..	..	265	392
Own use in electricity, CHP and heat plants	14955	14679	14608	14360	13938	13726
Net production	247583	243240	241465	238218	235717	239021
Imports	11890	10006	9428	11177	13059	10555
Exports	14964	15035	13929	13836	14609	16549
Losses	21998	22221	21488	20940	19895	21399
Consumption	220421	213092	212497	211679	209887	210359
Energy industries own use	15719	15188	15693	16174	16025	17541
By industry and construction	122430	118824	118204	117428	116576	115940
By transport	3779	3833	3745	3714	3463	3457
By households and other cons.	78493	75247	74855	74363	73823	73421
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*44844	*44844	*44148	*47643	*47273	*48094
Combustible fuels	*42186	*42186	*41559	*43238	*40581	*40581
Hydro	*728	*728	*728	*725	*740	*740
Nuclear	*1890	*1890	*1800	*1880	*1860	1860
Other	*40	*40	*61	*1800	*4092	*4913
Main activity	*42754	*42754	*42037	*44003	*41205	*41014
Combustible fuels	*40186	*40186	*39559	*41438	*38381	*38190
Hydro	*678	*678	*678	*685	*700	*700
Nuclear	*1890	*1890	*1800	*1880	*1860	1860
Other	..	..	..	..	*264	*264
Combustible fuel input	Terajoules					
Hard Coal	2840510	2915759	2938647	3083944	2827721	2901980
Gas-diesel oil	2021	1978	1978	1935	1892	1892
Vegetal waste	*3730	*3730	*3730	*3730	*3730	*3744
Total input	2846261	2921467	2944355	3089609	2833343	2907616
Total production	878328	870181	856336	837058	823770	816937
Estimated efficiency (% of production to input)	31	30	29	27	29	28

Statistics on electricity

South Sudan

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	..	444	471	489	577	439
Combustible fuels	..	443	470	488	576	437
Hydro
Nuclear
Other	..	1	1	1	1	2
Main activity	..	210	225	234	245	187
Combustible fuels	..	210	225	234	245	186
Hydro
Nuclear
Other	..	0	0	0	0	1
Own use in electricity, CHP and heat plants	..	17	17	18	17	14
Net production	..	427	454	471	560	425
Imports
Exports
Losses	..	26	27	28	27	21
Consumption	..	385	415	431	529	402
Energy industries own use
By industry and construction
By transport
By households and other cons.	..	385	415	431	529	402
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	..	*81	*81	*81	*84	*84
Combustible fuels	..	*80	*80	*80	*80	*80
Hydro	3	*3
Nuclear
Other	..	*1	*1	*1	*1	*1
Main activity	..	*40	*40	*40	*43	*43
Combustible fuels	..	*40	*40	*40	*40	*40
Hydro	3	*3
Nuclear
Other	..	0	0	0	0	0
Combustible fuel input	Terajoules					
Motor gasoline	177	133
Gas-diesel oil	..	5074	5418	5633	7826	5934
Total input	..	5074	5418	5633	8003	6067
Total production	..	1595	1692	1757	2074	1573
Estimated efficiency (% of production to input)	..	31	31	31	26	26

Statistics on electricity

Spain

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	293848	297559	285632	278750	280911	274779
Combustible fuels	150730	150312	119111	112789	128947	113618
Hydro	32911	24162	41052	42970	31368	39865
Nuclear	57718	61470	56726	57305	57196	58633
Other	52489	61615	68743	65686	63400	62663
Main activity	253030	256132	247504	246639	247431	240730
Combustible fuels	110980	109560	81966	81783	96474	80530
Hydro	32050	23700	40109	41906	30620	39062
Nuclear	57718	61470	56726	57305	57196	58633
Other	52282	61402	68703	65645	63141	62505
Own use in electricity, CHP and heat plants	10570	10987	10234	10370	11161	10428
Net production	283278	286572	275398	268380	269750	264351
Imports	7932	7787	9887	12310	14956	21845
Exports	14023	18986	16638	15716	15089	14178
Losses	26027	25675	26694	26393	26509	26720
Consumption	252050	250526	241089	238508	243065	244640
Energy industries own use	8541	10278	11002	11611	11027	12125
By industry and construction	73451	72466	70828	71657	76055	77899
By transport	4515	4455	4552	4159	5582	5389
By households and other cons.	165543	163327	154707	151081	150401	149227
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	110110	112475	113302	113791	114205	113489
Combustible fuels	56786	56736	56786	56786	56350	55454
Hydro	18740	18750	19385	19423	20253	20256
Nuclear	7450	7450	6984	7399	7399	7399
Other	27134	29539	30147	30183	30203	30380
Main activity	102806	105171	105998	106487	106901	106185
Combustible fuels	49786	49736	49786	49786	49350	48454
Hydro	18540	18550	19185	19223	20053	20056
Nuclear	7450	7450	6984	7399	7399	7399
Other	27030	29435	30043	30079	30099	30276
Combustible fuel input	Terajoules					
Hard Coal	412497	523188	379601	411565	481734	362042
Brown Coal	37963	30335	21620	29263	30805	18293
Gas-diesel oil	47902	44720	40377	49106	35432	32078
Fuel oil	74134	78740	66579	63913	69326	75467
Petroleum coke	13780	16673	9458	10725	37083	31103
Natural gas	609377	517885	395682	323797	384257	376162
Blast furnace gas	9254	7243	9939	12500	11345	8924
Fuelwood	*26098	*26986	*35692	*41082	*26243	*24392
Vegetal waste	*868	*4299	*10992	*3168	*23658	*25000
Municipal waste	16332	14710	16724	17098	20900	19226
Others	10128	10761	19397	19166	17614	14200
Total input	1258334	1275539	1006060	981383	1138397	986886
Total production	542628	541123	428800	406040	464209	409025
Estimated efficiency (% of production to input)	43	42	43	41	41	41

Statistics on electricity
Sri Lanka

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	11600	11908	12060	12861	13227	14361
Combustible fuels	6916	8439	4870	7986	6854	9721
Hydro	4584	3302	6929	4563	5969	4221
Nuclear	..	..	..	..	..	..
Other	100	168	261	312	404	420
Main activity	11582	11879	12024	12812	12046	14175
Combustible fuels	6916	8439	4870	7986	6796	9630
Hydro	4573	3291	6918	4552	4904	4196
Nuclear	..	..	..	..	..	..
Other	93	149	236	274	345	349
Own use in electricity, CHP and heat plants	274	308	280	437	561	631
Net production	11326	11601	11780	12424	12666	13730
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	1337	1192	1201	1426	925	997
Consumption	9990	10409	10554	10997	11741	12715
Energy industries own use	..	..	..	..	..	..
By industry and construction	3379	3528	3590	3758	3880	4149
By transport	..	..	..	..	..	..
By households and other cons.	6611	6881	6964	7239	7861	8566
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	3160	3371	3301	4043	3948	4012
Combustible fuels	1712	1700	1591	2233	2108	2088
Hydro	1401	1584	1617	1664	1684	1722
Nuclear	..	..	..	..	..	..
Other	47	87	93	146	156	202
Main activity	3140	3124	3019	3723	3593	3600
Combustible fuels	1702	1690	1575	2213	2088	2064
Hydro	1401	1357	1361	1377	1377	1384
Nuclear	..	..	..	..	..	..
Other	37	77	83	133	128	152
Combustible fuel input	Terajoules					
Hard Coal	10419	18318	19860	39964	55099	58733
Gas-diesel oil	13072	16899	3856	12995	4240	16761
Fuel oil	30906	33532	21257	24659	12391	13227
Naphtha	2047	2759	4652	5904	6437	8010
Fuelwood	997	698	0	..	..	..
Bagasse	..	*39	334	524	726	911
Total input	57440	72244	49959	84047	78893	97643
Total production	24896	30379	17530	28748	24673	34995
Estimated efficiency (% of production to input)	43	42	35	34	31	36

Statistics on electricity

St. Helena and Depend.

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	9	10	11	10	10	11
Combustible fuels	8	9	10	9	8	8
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	2	3
Main activity	9	10	11	10	10	11
Combustible fuels	8	9	10	9	8	8
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	1	1	2	3
Own use in electricity, CHP and heat plants	1	0	1	0	0	0
Net production	9	9	10	10	10	10
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*1	*1	*1	*1	*1	*1
Consumption	8	9	9	9	9	9
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	8	9	9	9	9	9
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	5	8	8	9	10	19
Combustible fuels	5	8	8	8	8	8
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	1	1	1	*3	12
Main activity	5	8	8	9	10	19
Combustible fuels	5	8	8	8	8	8
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	1	1	1	*3	12
Combustible fuel input	Terajoules					
Gas-diesel oil	*86	*90	*99	85	72	67
Total input	*86	*90	*99	85	72	67
Total production	30	32	35	32	28	27
Estimated efficiency (% of production to input)	35	35	35	37	39	40

Statistics on electricity

St. Kitts-Nevis

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	223	218	*220	*221	*225	219
Combustible fuels	217	210	*211	*211	*215	207
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	6	8	*9	*10	*10	*12
Main activity	222	217	*219	*220	*224	218
Combustible fuels	216	209	*210	*210	*214	206
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	6	8	*9	*10	*10	*12
Own use in electricity, CHP and heat plants	0	0	*1	*2	*2	0
Net production	222	218	*219	*219	*223	219
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	40	39	*39	*39	*39	*44
Consumption	183	179	*180	*180	*184	*175
Energy industries own use	..	..	..	..	..	..
By industry and construction	*37	*36	*36	*36	*37	*53
By transport	..	..	..	..	..	..
By households and other cons.	146	143	*144	*144	*147	*122
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	59	60	59	60	63	*65
Combustible fuels	57	58	57	56	59	*61
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	3	*4	4	*4
Main activity	55	56	55	56	59	*61
Combustible fuels	53	54	53	52	55	*57
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	3	*4	4	*4
Combustible fuel input	Terajoules					
Gas-diesel oil	2116	2017	*1982	*1978	*2051	*2107
Total input	2116	2017	*1982	*1978	*2051	*2107
Total production	781	756	*760	*760	*774	746
Estimated efficiency (% of production to input)	37	37	38	38	38	35

Statistics on electricity
St. Lucia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	385	385	383	379	381	391
Combustible fuels	385	385	383	379	381	391
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	385	385	383	379	381	391
Combustible fuels	385	385	383	379	381	391
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	15	15	15	14	14	14
Net production	371	370	368	366	368	378
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	37	37	34	34	30	29
Consumption	333	333	334	332	338	348
Energy industries own use	..	..	..	..	..	..
By industry and construction	19	18	18	18	18	19
By transport	..	..	..	..	..	..
By households and other cons.	315	316	317	314	320	330
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	76	86	86	88	88	88
Combustible fuels	76	86	86	88	88	88
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	76	86	86	88	88	88
Combustible fuels	76	86	86	88	88	88
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	3350	3321	3306	3298	3333	3389
Total input	3350	3321	3306	3298	3333	3389
Total production	1387	1385	1379	1366	1373	1409
Estimated efficiency (% of production to input)	41	42	42	41	41	42

Statistics on electricity

St. Pierre-Miquelon

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	45	43	47	48	49	49
Combustible fuels	44	43	46	48	49	49
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	1	0	0	0
Main activity	45	43	47	48	49	49
Combustible fuels	44	43	46	48	49	49
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	1	0	0	0
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	45	43	47	48	49	49
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	2	3	2	2	4	4
Consumption	44	41	45	46	45	45
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	44	41	45	46	45	45
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	27	27	28	26	25	25
Combustible fuels	26	26	27	26	25	25
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	1	0	0	0
Main activity	27	27	28	26	25	25
Combustible fuels	26	26	27	26	25	25
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	1	0	0	0
Combustible fuel input	Terajoules					
Gas-diesel oil	*482	*464	*490	*516	*516	*516
Total input	*482	*464	*490	*516	*516	*516
Total production	159	153	164	174	175	176
Estimated efficiency (% of production to input)	33	33	34	34	34	34

Statistics on electricity

St. Vincent-Grenadines

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*145	*139	*139	*157	*166	*136
Combustible fuels	*114	*114	*114	*132	*140	*110
Hydro	*31	25	25	25	26	*26
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*145	*139	*139	*157	*166	*136
Combustible fuels	*114	*114	*114	*132	*140	*110
Hydro	*31	25	25	25	26	*26
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	*4	3	*5	*4	*4	0
Net production	*141	*136	*134	*153	*162	*136
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*11	9	*9	*12	*12	10
Consumption	123	123	125	*140	*150	*144
Energy industries own use	..	..	..	..	..	..
By industry and construction	7	7	7	*7	*8	*7
By transport	..	..	..	..	..	..
By households and other cons.	116	116	119	*133	*142	*137
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*58	*58	*58	*58	53	53
Combustible fuels	*46	*46	*46	*46	46	46
Hydro	*13	*13	*13	*13	6	6
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	1	1
Main activity	*58	*58	*58	*58	53	53
Combustible fuels	*46	*46	*46	*46	46	46
Hydro	*13	*13	*13	*13	6	6
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	1	1
Combustible fuel input	Terajoules					
Gas-diesel oil	*1161	*1290	*1118	*1290	*1333	*1226
Total input	*1161	*1290	*1118	*1290	*1333	*1226
Total production	*411	*411	*410	*477	*504	*396
Estimated efficiency (% of production to input)	35	32	37	37	38	32

Statistics on electricity

State of Palestine

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	569	461	534	339	515	537
Combustible fuels	569	461	534	339	515	537
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	569	461	534	339	515	537
Combustible fuels	569	461	534	339	515	537
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	569	461	534	339	515	537
Imports	4622	4909	4734	4935	5413	5473
Exports	..	..	..	..	..	..
Losses	1292	537	527	633	711	721
Consumption	3506	4846	4743	4642	5216	5289
Energy industries own use	..	..	..	..	..	..
By industry and construction	*299	*1026	405	527	576	584
By transport	..	..	..	..	..	..
By households and other cons.	3207	3820	4339	4115	4640	4705
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	140	140	140	140	140	140
Combustible fuels	140	140	140	140	140	140
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	140	140	140	140	140	140
Combustible fuels	140	140	140	140	140	140
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Motor gasoline	89	257	354	337	443	403
Gas-diesel oil	5199	3904	4455	2989	3939	4094
Total input	5287	4161	4809	3325	4382	4497
Total production	2049	1660	1923	1219	1853	1934
Estimated efficiency (% of production to input)	39	40	40	37	42	43

Statistics on electricity

Sudan

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	..	9510	10607	11376	13047	14429
Combustible fuels	..	2891	2290	2463	4627	6378
Hydro	..	6619	8317	8913	8420	8051
Nuclear
Other
Main activity	..	9436	10287	11376	13047	14429
Combustible fuels	..	2817	1970	2463	4627	6378
Hydro	..	6619	8317	8913	8420	8051
Nuclear
Other
Own use in electricity, CHP and heat plants	..	106	356	43	47	53
Net production	..	9404	10251	11333	13000	14376
Imports
Exports
Losses	..	1794	2356	1072	1854	1862
Consumption	..	7611	7895	10261	11146	12514
Energy industries own use
By industry and construction	..	1125	1279	1628	1512	1794
By transport
By households and other cons.	..	6486	6616	8633	9634	10720
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	..	2877	3136	*3136	3120	3338
Combustible fuels	..	1287	1543	*1543	1527	1745
Hydro	..	1590	1593	*1593	1593	1593
Nuclear
Other
Main activity	..	2877	3136	*3136	3120	3338
Combustible fuels	..	1287	1543	*1543	1527	1745
Hydro	..	1590	1593	*1593	1593	1593
Nuclear
Other
Combustible fuel input	Terajoules					
Crude oil	19966	46657
Gas-diesel oil	..	10922	11051	11309	15394	15652
Fuel oil	..	14423	*9211	16685	17251	18948
Other oil products	0	0	..
Total input	..	25345	20262	27994	52610	81257
Total production	..	10408	8244	8867	16657	22961
Estimated efficiency (% of production to input)	..	41	41	32	32	28

Statistics on electricity
Suriname

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1869	1961	2035	2073	2084	2027
Combustible fuels	501	849	932	1276	1378	1239
Hydro	1368	1112	1103	797	702	783
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	*4	*4
Main activity	264	515	552	751	762	577
Combustible fuels	264	515	552	751	757	573
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	*4	*4
Own use in electricity, CHP and heat plants	97	83	85	73	70	34
Net production	1772	1877	1950	2000	2014	1993
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	176	178	197	190	242	217
Consumption	1641	1668	1737	1768	1772	1776
Energy industries own use	..	..	..	..	..	..
By industry and construction	786	747	741	727	716	*855
By transport	..	..	..	..	..	..
By households and other cons.	855	921	996	1041	1057	921
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	466	466	536	496	501	*501
Combustible fuels	277	277	347	307	307	*307
Hydro	189	189	189	189	189	189
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	5	*5
Main activity	154	154	224	184	189	*189
Combustible fuels	154	154	224	184	184	*184
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	5	*5
Combustible fuel input	Terajoules					
Gas-diesel oil	710	856	1028	731	753	674
Fuel oil	11672	12290	12972	13756	13866	12420
Natural gas	172	175	179	149	152	136
Total input	12553	13321	14179	14636	14771	13230
Total production	1802	3056	3356	4595	4960	4461
Estimated efficiency (% of production to input)	14	23	24	31	34	34

Statistics on electricity

Sweden

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	150376	166562	153166	153662	162058	156010
Combustible fuels	17256	16283	15336	13632	13906	15150
Hydro	66556	79058	61496	63872	75439	62137
Nuclear	60475	64037	66457	64877	56348	63101
Other	6089	7184	9877	11281	16365	15622
Main activity	144361	160212	147312	147865	156231	150272
Combustible fuels	11256	9950	9492	7847	8090	9423
Hydro	66541	79041	61486	63860	75428	62126
Nuclear	60475	64037	66457	64877	56348	63101
Other	6089	7184	9877	11281	16365	15622
Own use in electricity, CHP and heat plants	3440	3732	3627	3706	3067	3479
Net production	146936	162830	149539	149956	158991	152531
Imports	12481	11682	12674	13852	9294	14287
Exports	19714	31255	22676	29475	31894	26022
Losses	10569	10961	10003	7334	6246	7625
Consumption	127802	130503	128075	125195	127983	130784
Energy industries own use	3174	3217	3059	3004	3124	3288
By industry and construction	53802	54077	52014	50730	50281	50289
By transport	2640	2685	2750	2615	2595	2664
By households and other cons.	68186	70524	70252	68846	71983	74543
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	36629	39084	39118	39939	40914	41522
Combustible fuels	7945	9600	8970	9270	8945	8689
Hydro	16580	16417	16503	16005	16337	16478
Nuclear	9323	9436	9408	9507	9688	9768
Other	2781	3631	4237	5157	5944	6587
Main activity	35227	37843	37915	38736	39712	40316
Combustible fuels	6546	8362	7776	8076	7751	7495
Hydro	16577	16414	16494	15996	16329	16466
Nuclear	9323	9436	9408	9507	9688	9768
Other	2781	3631	4237	5157	5944	6587
Combustible fuel input	Terajoules					
Hard Coal	10500	9167	12813	8423	8255	5358
Peat	11115	8884	7588	5261	4441	4870
Gas-diesel oil	2107	1419	946	86	1333	1892
Fuel oil	5656	5939	3596	3192	1454	2707
Natural gas	21808	14942	14963	7695	8082	11451
Blast furnace gas	7235	5630	5122	5749	5435	5608
Fuelwood	*103349	*131404	*128628	*121842	*124449	*135091
Municipal waste	45724	49735	53494	56454	58887	61789
Industrial waste	1211	764	1087	863	749	746
Other recovered gases	628	1747	1662	1648	1542	1951
Others	1770	850	2312	1483	1467	1646
Total input	211103	*230481	*232211	*212695	*216095	*233108
Total production	62122	58619	55210	49075	50062	54540
Estimated efficiency (% of production to input)	29	25	24	23	23	23

Statistics on electricity

Switzerland

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	64631	69845	70227	71767	67720	63175
Combustible fuels	3550	3711	3679	3566	3521	3898
Hydro	34133	40305	39968	39701	39881	36689
Nuclear	26710	25441	25990	27557	23089	21146
Other	238	388	590	943	1229	1442
Main activity	59215	63828	63915	64902	60625	55986
Combustible fuels	785	812	700	457	425	681
Hydro	31650	37487	37135	36787	37001	34050
Nuclear	26710	25441	25990	27557	23089	21146
Other	70	88	90	101	110	109
Own use in electricity, CHP and heat plants	1666	1681	1699	1759	1565	1469
Net production	62965	68164	68528	70008	66155	61706
Imports	34824	31549	29874	28530	34033	34096
Exports	32237	33749	32270	34021	35068	30173
Losses	4487	4581	4677	4696	4577	4468
Consumption	61052	61370	61445	59812	60535	61152
Energy industries own use	2466	2411	2132	2355	2296	2922
By industry and construction	19205	19028	18767	18019	17989	17761
By transport	3061	3094	3142	3069	3136	3200
By households and other cons.	36320	36837	37404	36369	37114	37269
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	18234	18584	18932	19165	19618	20839
Combustible fuels	918	1018	1021	993	1016	961
Hydro	13769	13802	13817	13743	13815	14806
Nuclear	3278	3278	3278	3308	3333	3333
Other	269	486	816	1121	1454	1739
Main activity	16844	16838	16861	16813	16957	17736
Combustible fuels	240	291	291	263	260	217
Hydro	13280	13220	13232	13182	13304	14111
Nuclear	3278	3278	3278	3308	3333	3333
Other	46	49	60	60	60	75
Combustible fuel input	Terajoules					
Biogas	1451	1653	1803	1898	1990	2146
Gas-diesel oil	301	387	301	301	344	258
Fuel oil	0	0	0	..	..	..
Liquefied petroleum gas	47	47	47	47	47	47
Natural gas	8714	7845	6028	3321	4639	6679
Fuelwood	*4579	*5614	*6161	*6041	4944	5550
Municipal waste	39768	40764	40544	41292	42832	44564
Industrial waste	1833	1919	1920	2002	881	834
Total input	56693	58229	56804	54902	55677	60078
Total production	12780	13360	13244	12838	12676	14033
Estimated efficiency (% of production to input)	23	23	23	23	23	23

Statistics on electricity
Syrian Arab Republic

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	42025	31188	25933	21726	17881	18112
Combustible fuels	38742	27951	22933	18726	17468	17183
Hydro	3283	3237	3000	3000	413	929
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	40965	30436	25435	21229	17383	17556
Combustible fuels	37682	27199	22435	18229	16970	16627
Hydro	3283	3237	3000	3000	413	929
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	4802	3564	2963	2482	2043	2070
Net production	37223	27624	22970	19244	15838	16042
Imports	902	..	..	..	..	..
Exports	1192	0	529	138	262	67
Losses	6461	5010	3636	3353	2611	2842
Consumption	30472	22614	18805	15753	12965	13133
Energy industries own use	..	..	..	..	..	..
By industry and construction	10248	7605	6324	5298	4360	4417
By transport	..	..	..	..	..	..
By households and other cons.	20224	15009	12481	10455	8605	8716
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	8206	*8206	8206	*9603	*9122	9686
Combustible fuels	7356	*7356	7356	*8109	*7550	8192
Hydro	850	*850	850	1494	1572	1494
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	7210	*7210	7210	*8508	*8027	8774
Combustible fuels	6360	*6360	6360	*7014	*6455	7280
Hydro	850	*850	850	1494	1572	1494
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	18963	13459	8901	8901	8901	9933
Fuel oil	152712	108393	64115	43874	49288	63590
Natural gas	242805	198995	163515	151174	132663	115694
Total input	414480	320847	236531	203949	190852	189217
Total production	139471	100624	82559	67414	62885	61859
Estimated efficiency (% of production to input)	34	31	35	33	33	33

Statistics on electricity

T.F.Yug.Rep. Macedonia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	6759	6262	6094	5374	5646	5630
Combustible fuels	5325	5218	4501	4082	3617	3563
Hydro	1433	1041	1584	1207	1865	1897
Nuclear	..	..	..	..	..	..
Other	1	3	9	85	164	169
Main activity	6757	6260	6092	5373	5646	5630
Combustible fuels	5322	5217	4499	4081	3617	3563
Hydro	1433	1041	1584	1207	1865	1897
Nuclear	..	..	..	..	..	..
Other	1	3	9	85	164	169
Own use in electricity, CHP and heat plants	491	478	434	412	380	358
Net production	6268	5784	5660	4961	5266	5272
Imports	2749	2741	2491	3073	2656	2191
Exports	73	72	62	113	143	160
Losses	1388	1296	1152	1069	1035	1007
Consumption	7557	7157	6937	6852	6743	6296
Energy industries own use	178	152	136	123	108	103
By industry and construction	2506	2206	2261	2222	1976	1591
By transport	17	17	17	19	17	14
By households and other cons.	4856	4782	4523	4489	4642	4588
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1644	1706	1731	1759	1790	1793
Combustible fuels	1086	1107	1107	1077	1074	1074
Hydro	556	595	617	630	658	660
Nuclear	..	..	..	..	..	..
Other	2	4	7	52	58	59
Main activity	1641	1703	1728	1756	1790	1793
Combustible fuels	1083	1104	1104	1074	1074	1074
Hydro	556	595	617	630	658	660
Nuclear	..	..	..	..	..	..
Other	2	4	7	52	58	59
Combustible fuel input	Terajoules					
Brown Coal	58284	55961	45809	43856	38046	33979
Biogas	..	..	..	..	75	134
Gas-diesel oil	0	..	..	..	..	..
Fuel oil	710	935	1246	1663	1584	1130
Liquefied petroleum gas	0	0	0	0	0	..
Refinery gas	0	0	0	0	0	..
Natural gas	1216	3091	3443	1713	1481	4603
Fuelwood	0	0	0	0	0	..
Total input	60210	59988	50498	47232	41185	39846
Total production	19169	18785	16204	14695	13023	12827
Estimated efficiency (% of production to input)	32	31	32	31	32	32

Statistics on electricity

Tajikistan

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	16234	16998	17115	16472	17162	17232
Combustible fuels	38	74	44	160	302	608
Hydro	16196	16924	17071	16312	16860	16624
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	16234	16998	17115	16472	17162	17232
Combustible fuels	38	74	44	160	302	608
Hydro	16196	16924	17071	16312	16860	16624
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	90	91	90	24	25	36
Net production	16144	16907	17025	16448	17137	17196
Imports	172	114	117	13	63	103
Exports	197	775	1061	1366	1400	1427
Losses	2271	2445	2528	2804	2700	2746
Consumption	13752	13777	13553	12407	12511	12986
Energy industries own use	66	66	66	63	65	64
By industry and construction	6450	6344	5496	4132	4186	4758
By transport	161	37	38	41	50	72
By households and other cons.	7075	7330	7953	8171	8210	8092
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	5079	6168	6185	6280	6283	6577
Combustible fuels	324	314	318	421	422	719
Hydro	4755	5854	5867	5859	5861	5858
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	5079	6168	6185	6280	6283	6577
Combustible fuels	324	314	318	421	422	719
Hydro	4755	5854	5867	5859	5861	5858
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Hard Coal	..	..	706	2044	3047	*4515
Natural gas	728	933	..	..	..	..
Total input	728	933	706	2044	3047	*4515
Total production	137	266	158	576	1087	2189
Estimated efficiency (% of production to input)	19	29	22	28	36	48

Statistics on electricity
Thailand

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	155991	166642	170148	172259	177479	191321
Combustible fuels	147727	157253	163014	165028	170028	180615
Hydro	8163	8754	5748	5540	4743	6983
Nuclear	..	..	..	..	..	..
Other	101	635	1386	1691	2708	3723
Main activity	138288	148403	139729	139778	141712	139183
Combustible fuels	130116	139408	133459	133726	136324	131422
Hydro	8163	8754	5748	5540	4743	6983
Nuclear	..	..	..	..	..	..
Other	9	241	522	512	645	778
Own use in electricity, CHP and heat plants	5490	5345	6220	5931	3338	3300
Net production	150501	161297	163928	166328	174141	188021
Imports	10682	10330	12569	12260	14414	19825
Exports	1645	1911	1279	1594	2267	1385
Losses	10833	9502	10340	10545	11782	12225
Consumption	148700	161749	164322	178991	183627	194248
Energy industries own use	..	..	..	..	..	..
By industry and construction	63418	67105	68606	82623	83982	88878
By transport	106	103	164	165	171	189
By households and other cons.	85176	94541	95552	96203	99474	105181
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	49750	52547	54438	55452	58007	60257
Combustible fuels	45233	46289	47250	48238	51403	53653
Hydro	*3488	*3488	3418	3444	2952	2952
Nuclear	..	..	..	..	..	..
Other	*1029	*2770	*3770	*3770	*3652	*3652
Main activity	32779	35576	36464	37478	40033	42283
Combustible fuels	29262	30318	31276	32264	35429	37679
Hydro	*3488	*3488	3418	3444	2952	2952
Nuclear	..	..	..	..	..	..
Other	*29	*1770	1770	1770	1652	*1652
Combustible fuel input	Terajoules					
Hard Coal	181579	170343	223334	224205	216529	220617
Brown Coal	208369	203427	204993	182557	155355	174281
Biogas	4141	1564	7395	7564	8832	8282
Gas-diesel oil	731	1849	2537	1548	2021	2795
Fuel oil	16887	19150	12322	14665	7434	3030
Natural gas	892064	955775	976868	1027756	1076946	1045586
Fuelwood	*82066	*69314	*98537	*160849	*147605	*86797
Bagasse	*186482	*221809	*238965	*278054	*225232	*271799
Municipal waste	127	423	592	592	5789	1225
Total input	1572446	1643653	1765543	1897789	1845743	1814412
Total production	531817	566111	586850	594101	612101	650214
Estimated efficiency (% of production to input)	34	34	33	31	33	36

Statistics on electricity
Timor-Leste

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	140	126	295	349	350	413
Combustible fuels	140	126	295	349	350	413
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	140	126	295	349	350	413
Combustible fuels	140	126	295	349	350	413
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	7	6	18	21	21	0
Net production	133	120	277	328	329	413
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*28	*26	*60	*70	*75	*80
Consumption	105	94	*217	*258	254	333
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	105	94	*217	*258	254	333
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*50	51	139	287	*161	272
Combustible fuels	*50	51	138	286	*160	271
Hydro	..	..	1	1	1	1
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*50	51	139	287	*161	272
Combustible fuels	*50	51	138	286	*160	271
Hydro	..	..	1	1	1	1
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	*1677	*1505	*3526	*4042	*4012	*4554
Total input	*1677	*1505	*3526	*4042	*4012	*4554
Total production	504	454	1062	1256	1261	1485
Estimated efficiency (% of production to input)	30	30	30	31	31	33

Statistics on electricity

Togo

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	320	399	360	358	444	950
Combustible fuels	119	234	286	233	383	742
Hydro	202	165	74	125	61	208
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	309	388	353	347	432	937
Combustible fuels	108	223	279	222	371	729
Hydro	202	165	74	125	61	208
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	6	11	13	7	16	26
Net production	314	389	347	351	428	924
Imports	696	679	773	857	857	448
Exports	..	..	..	..	..	..
Losses	163	164	183	186	184	188
Consumption	847	904	937	1023	1138	1185
Energy industries own use	..	..	..	..	..	..
By industry and construction	253	277	271	309	387	413
By transport	..	..	..	..	..	..
By households and other cons.	594	627	666	714	751	772
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	201	227	227	227	227	213
Combustible fuels	134	160	160	160	160	158
Hydro	67	67	67	67	67	55
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	193	219	219	219	219	205
Combustible fuels	126	152	152	152	152	150
Hydro	67	67	67	67	67	55
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	90	275	237	185	305	172
Fuel oil	533	1026	1382	598	1402	5239
Natural gas	*311	654	844	1481	1467	262
Vegetal waste	72	72	74	76	83	87
Kerosene-type jet fuel	44	88	88	88	88	88
Total input	1051	2115	2624	2428	3345	5849
Total production	427	843	1031	839	1380	2671
Estimated efficiency (% of production to input)	41	40	39	35	41	46

Statistics on electricity
Tonga

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	53	52	53	55	55	60
Combustible fuels	53	52	51	52	52	55
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	2	2	3	5
Main activity	53	52	53	55	55	60
Combustible fuels	53	52	51	52	52	55
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	2	2	3	5
Own use in electricity, CHP and heat plants	2	2	2	2	1	2
Net production	51	50	51	53	54	58
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	7	6	5	5	5	5
Consumption	*45	*45	*46	*48	*49	*53
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*45	*45	*46	*48	*49	*53
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*14	*14	*15	*16	*17	20
Combustible fuels	*14	*14	*14	*14	*15	17
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	*1	*2	*2	2
Main activity	*14	*14	*15	*16	*17	20
Combustible fuels	*14	*14	*14	*14	*15	17
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	*1	*2	*2	2
Combustible fuel input	Terajoules					
Gas-diesel oil	477	0	..	..	..	..
Fuel oil	..	493	493	492	487	*518
Total input	477	493	493	492	487	*518
Total production	191	189	185	187	188	199
Estimated efficiency (% of production to input)	40	38	37	38	39	38

Statistics on electricity
Trinidad and Tobago

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	8776	9136	9509	9899	10304	10716
Combustible fuels	8772	9132	9505	9895	10300	10712
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	4	4	4	4	4	4
Main activity	8700	9057	9427	9813	10215	10624
Combustible fuels	8700	9057	9427	9813	10215	10624
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	323	336	350	364	379	394
Net production	8453	8800	9159	9535	9925	10322
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	243	239	234	228	221	206
Consumption	8211	8560	8926	9306	9703	10092
Energy industries own use	..	..	..	..	..	..
By industry and construction	4964	5175	5396	5626	5866	6101
By transport	..	..	..	..	..	..
By households and other cons.	3247	3385	3530	3680	3837	3991
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2331	2601	2601	2601	2601	2601
Combustible fuels	2328	2598	2598	2598	2598	2598
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	3	3	3	3	3	3
Main activity	2132	2402	2402	2402	2402	2402
Combustible fuels	2132	2402	2402	2402	2402	2402
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	215	215	215	215	215	301
Fuel oil	..	..	..	..	..	2868
Other oil products	0	0	0	0	80	201
Natural gas	122343	122678	122343	121136	118721	109063
Total input	122558	122893	122558	121351	119016	112433
Total production	31579	32875	34218	35622	37080	38563
Estimated efficiency (% of production to input)	26	27	28	29	31	34

Statistics on electricity

Tunisia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	16497	18059	18382	19024	19676	19808
Combustible fuels	16142	17537	17740	18254	18904	19002
Hydro	54	110	60	56	69	45
Nuclear	..	..	..	..	..	..
Other	301	412	582	714	703	761
Main activity	15801	17425	17637	18257	18691	18634
Combustible fuels	15638	17119	17219	17694	18174	18115
Hydro	54	110	60	56	69	45
Nuclear	..	..	..	..	..	..
Other	109	196	358	507	448	474
Own use in electricity, CHP and heat plants	583	647	641	653	559	492
Net production	15914	17412	17741	18371	19117	19316
Imports	131	384	177	536	403	134
Exports	161	426	233	625	500	255
Losses	2255	2735	2707	2842	3166	3052
Consumption	13611	14632	14970	15418	16377	16001
Energy industries own use	372	246	241	228	940	432
By industry and construction	4780	5113	5305	5445	5478	5423
By transport	87	96	93	93	94	96
By households and other cons.	8372	9177	9331	9652	9865	10050
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	4217	4279	4539	5005	5447	5513
Combustible fuels	4101	4041	4270	4695	5120	5174
Hydro	62	62	62	62	62	62
Nuclear	..	..	..	..	..	..
Other	54	176	207	248	265	277
Main activity	4024	4117	4334	4792	5224	5278
Combustible fuels	3909	3882	4072	4497	4922	4976
Hydro	62	62	62	62	62	62
Nuclear	..	..	..	..	..	..
Other	53	173	200	233	240	240
Combustible fuel input	Terajoules					
Gas-diesel oil	129	43	43	43	146	86
Fuel oil	0	0	646	3394	9534	687
Natural gas	153722	165591	167834	173915	167766	169416
Total input	153851	165634	168523	177352	177447	170189
Total production	58111	63133	63864	65714	68054	68407
Estimated efficiency (% of production to input)	38	38	38	37	38	40

Statistics on electricity
Turkey

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	229393	239496	240154	251963	261783	274408
Combustible fuels	171532	174760	171535	200079	178871	185085
Hydro	52338	57865	59420	40645	67146	67231
Nuclear	..	..	..	..	..	..
Other	5523	6871	9199	11239	15766	22092
Main activity	217130	226225	226756	233781	243163	253746
Combustible fuels	160617	163261	159495	183126	161979	166450
Hydro	51098	56207	58344	39764	65924	66386
Nuclear	..	..	..	..	..	..
Other	5415	6757	8917	10891	15260	20910
Own use in electricity, CHP and heat plants	11835	11789	11177	12514	11883	12471
Net production	217558	227707	228977	239449	249900	261937
Imports	4556	5827	7429	7953	7136	6330
Exports	3645	2954	1227	2696	3195	1452
Losses	32369	35657	37134	37331	36528	35611
Consumption	186100	194923	198045	207375	217313	231204
Energy industries own use	2107	2027	1877	1933	2504	2806
By industry and construction	85874	90275	91384	95844	101031	105491
By transport	657	799	826	916	1062	1156
By households and other cons.	97462	101822	103958	108682	112716	121751
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	52911	57059	64007	69541	73147	78497
Combustible fuels	33909	35005	38590	41730	41810	44278
Hydro	17137	19609	22289	23643	25868	26681
Nuclear	..	..	..	..	..	..
Other	1865	2445	3128	4168	5469	7538
Main activity	49863	53753	60481	65216	68694	73220
Combustible fuels	31428	32266	35671	38047	37999	40055
Hydro	16593	19065	21745	23099	25324	26131
Nuclear	..	..	..	..	..	..
Other	1842	2422	3065	4070	5371	7034
Combustible fuel input	Terajoules					
Hard Coal	272016	320640	318688	373458	423837	479342
Brown Coal	563988	475756	479314	568241	431698	518993
Biogas	3037	5387	8511	9653	11119	14721
Gas-diesel oil	43	4988	4773	4386	9675	7095
Fuel oil	10100	10504	12605	18342	10585	10342
Natural gas	826120	832166	816124	897578	763792	684008
Coke-oven gas	9015	10257	9375	8965	9296	8328
Blast furnace gas	17968	18213	20524	23648	22876	23748
Fuelwood	*271	*534	*588	*589	*556	*986
Industrial waste	235	210	184	144	1362	2067
Others	0	..	..	..	..	..
Total input	1702793	1678655	1670686	1905003	1684796	1749630
Total production	617515	629136	617526	720284	643936	666306
Estimated efficiency (% of production to input)	36	37	37	38	38	38

Statistics on electricity

Turkmenistan

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	17220	17750	18870	20400	22534	22534
Combustible fuels	17220	17750	18870	20400	22534	22534
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	17220	17750	18870	20400	22534	22534
Combustible fuels	17220	17750	18870	20400	22534	22534
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	1301	1341	1426	1542	1703	1703
Net production	15919	16409	17444	18858	20831	20831
Imports	..	..	..	..	..	..
Exports	2550	2720	2850	3210	3201	3201
Losses	2190	2235	2385	2547	2895	2895
Consumption	11179	11454	12209	13101	14735	14735
Energy industries own use	1717	1759	1875	2012	2262	2262
By industry and construction	3414	3498	3729	4001	4500	4500
By transport	245	251	268	288	324	324
By households and other cons.	5803	5946	6337	6800	7649	7649
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*3200	*3400	*3800	*4000	*4000	4674
Combustible fuels	*3200	*3400	*3800	*4000	*4000	4674
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*3200	*3400	*3800	*4000	*4000	4674
Combustible fuels	*3200	*3400	*3800	*4000	*4000	4674
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Natural gas	347460	359318	364393	371853	410752	410752
Total input	347460	359318	364393	371853	410752	410752
Total production	61992	63900	67932	73440	81122	81122
Estimated efficiency (% of production to input)	18	18	19	20	20	20

Statistics on electricity

Turks and Caicos Islands

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*207	*210	*209	*227	*239	*250
Combustible fuels	*207	*210	*209	*227	*239	*250
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*207	*210	*209	*227	*239	*250
Combustible fuels	*207	*210	*209	*227	*239	*250
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	*4	*4	*4	*5	*5	*5
Net production	*203	*206	*205	*222	*234	*245
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*11	*12	*12	*13	*14	*15
Consumption	192	194	193	209	*220	230
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	192	194	193	209	*220	230
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	65	76	76	79	82	82
Combustible fuels	65	76	76	79	82	82
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	65	76	76	79	82	82
Combustible fuels	65	76	76	79	82	82
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	*2236	*2236	*2236	*2408	*2494	*2580
Total input	*2236	*2236	*2236	*2408	*2494	*2580
Total production	*745	*756	*752	*817	*860	*900
Estimated efficiency (% of production to input)	33	34	34	34	34	35

Statistics on electricity

Tuvalu

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	5	*5	*5	*5	*7	*8
Combustible fuels	5	*5	*5	*5	*5	*5
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	2	*3
Main activity	5	*5	*5	*5	*7	*8
Combustible fuels	5	*5	*5	*5	*5	*5
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	2	*3
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	5	*5	*5	*5	*7	*8
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	..	..	..	..	..	..
Consumption	5	*5	*5	*5	*7	*8
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	5	*5	*5	*5	*7	*8
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*3	*3	3	3	*4	*5
Combustible fuels	*3	*3	3	3	*3	*2
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	1	*3
Main activity	*3	*3	3	3	*4	*5
Combustible fuels	*3	*3	3	3	*3	*2
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	1	*3
Combustible fuel input	Terajoules					
Gas-diesel oil	68	*69	*69	*69	*69	*69
Total input	68	*69	*69	*69	*69	*69
Total production	18	*18	*18	*18	*18	*18
Estimated efficiency (% of production to input)	27	27	27	27	27	27

Statistics on electricity
Uganda

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	2647	2909	3416	3551	3473	3535
Combustible fuels	1029	378	128	307	245	244
Hydro	1617	2530	3289	3244	3228	3287
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	4
Main activity	2331	2543	2939	2985	3024	3069
Combustible fuels	969	284	2	93	74	66
Hydro	1362	2259	2937	2891	2950	2999
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	4
Own use in electricity, CHP and heat plants	9	10	10	14	15	0
Net production	2638	2899	3406	3537	3458	3535
Imports	39	35	46	33	48	41
Exports	89	99	106	168	122	265
Losses	660	696	714	634	594	656
Consumption	*1928	*2138	2631	2768	2791	2654
Energy industries own use	..	..	..	..	..	..
By industry and construction	*1088	*1131	1349	1602	1576	1657
By transport	..	..	..	..	..	..
By households and other cons.	*840	*1007	1282	1166	1215	997
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	618	718	828	885	896	904
Combustible fuels	186	136	136	190	201	201
Hydro	432	582	692	695	695	695
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	*8
Main activity	550	650	730	766	766	774
Combustible fuels	170	120	100	136	136	136
Hydro	380	530	630	630	630	630
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	*8
Combustible fuel input	Terajoules					
Gas-diesel oil	*9890	*2795	*22	*989	43	*43
Fuel oil	117	40	*20	*117	695	*687
Bagasse	*1158	*1815	*2413	*4112	*3305	*3614
Total input	*11165	*4650	*2455	*5218	*4043	*4344
Total production	3705	1361	459	1104	881	878
Estimated efficiency (% of production to input)	33	29	19	21	22	20

Statistics on electricity
Ukraine

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	194947	198878	194377	182815	163682	164573
Combustible fuels	93634	97126	95487	83549	67523	72795
Hydro	10946	10994	14472	9318	6971	9304
Nuclear	90248	90137	83209	88389	87627	80950
Other	119	621	1209	1559	1561	1524
Main activity	191294	195105	191177	179888	161468	158806
Combustible fuels	90002	93373	92310	80644	65328	67136
Hydro	10925	10974	14450	9299	6954	9281
Nuclear	90248	90137	83209	88389	87627	80950
Other	119	621	1208	1556	1559	1439
Own use in electricity, CHP and heat plants	15312	15481	15293	14385	13032	12684
Net production	179635	183397	179084	168430	150650	151889
Imports	35	93	39	89	2241	77
Exports	6327	11560	9929	8523	3591	3830
Losses	21261	21421	20714	19615	17442	16626
Consumption	152084	149817	148480	134981	126024	125257
Energy industries own use	12284	12149	10949	6594	7035	7817
By industry and construction	62890	63101	58584	54401	49963	49941
By transport	9887	9279	8690	8072	6807	6796
By households and other cons.	67023	65288	70257	65914	62219	60703
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	54624	55001	55914	55843	55904	57335
Combustible fuels	35026	35129	35616	35335	35335	36475
Hydro	5469	5470	5489	5851	5883	6172
Nuclear	13835	13835	13835	13835	13835	13835
Other	294	567	974	822	851	853
Main activity	51486	51645	52578	52910	53145	53866
Combustible fuels	31894	31778	32290	32410	32584	33013
Hydro	5463	5465	5484	5847	5878	6167
Nuclear	13835	13835	13835	13835	13835	13835
Other	294	567	969	818	848	851
Combustible fuel input	Terajoules					
Hard Coal	901465	1001244	972367	855610	691875	739606
Biogas	..	..	..	..	161	596
Gas-diesel oil	258	301	301	258	215	301
Fuel oil	3555	3717	3192	2020	11029	24280
Other oil products	2533	603	1769	1648	804	1005
Natural gas	319166	288423	240341	204757	169205	157126
Coke-oven gas	26842	27085	26254	10037	6939	9809
Blast furnace gas	25004	24777	26079	23785	18013	25568
Other recovered gases	0	0	0	9202	9656	1179
Peat products	20	0	0	0	127	176
Others	2772	743	594	7178	8672	47
Total input	1281614	1346893	1270896	1114495	916695	959693
Total production	337082	349654	343753	300776	243083	262062
Estimated efficiency (% of production to input)	26	26	27	27	27	27

Statistics on electricity
United Arab Emirates

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	99137	106222	109979	116528	127366	129596
Combustible fuels	99137	106203	109926	116237	127075	129287
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	19	53	291	291	309
Main activity	99137	106222	109979	116528	127366	129596
Combustible fuels	99137	106203	109926	116237	127075	129287
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	19	53	291	291	309
Own use in electricity, CHP and heat plants	3629	4768	4616	4843	4429	2392
Net production	95508	101454	105363	111685	122937	127204
Imports	49	215	226	248	234	1141
Exports	36	249	242	276	249	506
Losses	7114	7363	7623	8363	9141	9697
Consumption	85549	88247	95365	101174	111076	*113929
Energy industries own use	..	..	..	..	..	..
By industry and construction	9228	8140	13564	11196	12973	*13983
By transport	..	..	..	..	..	..
By households and other cons.	76321	80107	81801	89978	98103	*99946
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	26086	27180	27374	28829	28745	28761
Combustible fuels	26076	27170	27314	28769	28685	28701
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	10	10	60	60	60	60
Main activity	26086	27180	27374	28829	28745	28761
Combustible fuels	26076	27170	27314	28769	28685	28701
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	10	10	60	60	60	60
Combustible fuel input	Terajoules					
Gas-diesel oil	*26703	*24725	*28982	21887	23521	*23650
Fuel oil	*1939	*1980	*2141	1899	2020	*2141
Natural gas	1146160	*1240439	*1271764	*1209651	*1248672	*1257880
Total input	1174802	*1267143	*1302887	*1233437	*1274213	*1283671
Total production	356893	382331	395734	418453	457470	465433
Estimated efficiency (% of production to input)	30	30	30	34	36	36

Statistics on electricity

United Kingdom

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	367984	363879	358290	338100	338924	339399
Combustible fuels	274199	263993	249666	229566	211676	211531
Hydro	8597	8276	7605	8771	9038	8354
Nuclear	68980	70405	70607	63748	70345	71726
Other	16208	21205	30412	36015	47865	47788
Main activity	327263	322792	320575	296460	290769	287282
Combustible fuels	237866	228094	219497	198432	178116	175896
Hydro	7499	7136	6513	7518	7646	6910
Nuclear	68980	70405	70607	63748	70345	71726
Other	12918	17157	23958	26762	34662	32750
Own use in electricity, CHP and heat plants	16454	17990	17856	16483	16661	15275
Net production	351530	345889	340434	321617	322263	324124
Imports	8690	13775	17532	23244	22716	19699
Exports	2467	1911	3101	2723	1778	2153
Losses	27990	28294	26550	27448	28511	26517
Consumption	329761	329461	328251	314691	314693	315153
Energy industries own use	11773	11066	11893	11753	11137	11250
By industry and construction	102531	98579	97067	93157	93014	91916
By transport	4205	4480	4352	4505	4516	4669
By households and other cons.	211252	215336	214939	205276	206026	207318
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	93827	96047	93620	96622	97299	97640
Combustible fuels	71141	70872	65034	63600	59431	55435
Hydro	4423	4437	4453	4474	4521	4579
Nuclear	10663	9946	9906	9937	9487	9497
Other	7600	10792	14227	18611	23860	28129
Main activity	84839	86296	82477	81780	79553	77731
Combustible fuels	64745	64513	59171	57085	52706	48821
Hydro	4221	4221	4221	4221	4221	4221
Nuclear	10663	9946	9906	9937	9487	9497
Other	5210	7616	9179	10537	13139	15192
Combustible fuel input	Terajoules					
Hard Coal	1068933	1396572	1276300	980129	758859	317176
Biogas	78037	79201	81642	84381	88233	93538
Fuel oil	12524	12968	7070	5575	6424	6383
Refinery gas	14306	9455	10989	11732	12128	12425
Natural gas	1112675	779553	741128	784213	765475	1073078
Blast furnace gas	19019	24742	30969	30624	26847	19347
Fuelwood	*39646	*45165	*68693	*92732	*128452	*133321
Vegetal waste	*15519	*14879	*12649	*19731	*18094	*13406
Municipal waste	29090	34285	31890	40538	53712	66246
Industrial waste	13313	13317	4583	8556	9348	16912
Others	13374	14714	13803	12445	11247	7165
Total input	2416435	2424850	2279715	2070655	1878817	1758997
Total production	987116	950375	898798	826438	762034	761512
Estimated efficiency (% of production to input)	41	39	39	40	41	43

Statistics on electricity
United Rep. of Tanzania

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	5093	5589	5941	6219	6394	6998
Combustible fuels	3091	3809	4209	3611	4265	4607
Hydro	1993	1767	1717	2590	2108	2366
Nuclear	..	..	..	..	..	..
Other	9	13	15	18	21	25
Main activity	5084	5576	5926	6201	6373	6973
Combustible fuels	3091	3809	4209	3611	4265	4607
Hydro	1993	1767	1717	2590	2108	2366
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	5093	5589	5941	6219	6394	6998
Imports	55	61	59	59	71	102
Exports	..	..	..	..	..	..
Losses	1159	1048	1140	1135	1120	1119
Consumption	4004	4454	4851	4994	5271	5551
Energy industries own use	9	13	15	18	21	25
By industry and construction	1005	1089	1223	1270	1362	1472
By transport	..	..	..	..	..	..
By households and other cons.	2990	3352	3613	3706	3888	4054
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1113	1114	1115	1115	1374	1387
Combustible fuels	*546	*546	*546	*546	800	808
Hydro	562	562	562	562	567	567
Nuclear	..	..	..	..	..	..
Other	*5	*6	*7	*7	*7	*12
Main activity	1088	1088	1088	1088	1347	1356
Combustible fuels	*526	*526	*526	*526	780	788
Hydro	562	562	562	562	567	567
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	2451	3182	8428	5160	8600	3999
Fuel oil	4040	8444	8201	7676	9534	2262
Natural gas	28187	31751	31411	28623	27590	25558
Bagasse	450	342	378	396	378	378
Total input	35128	43719	48418	41855	46102	32197
Total production	11128	13712	15152	13000	15354	16585
Estimated efficiency (% of production to input)	32	31	31	31	33	52

Statistics on electricity
United States

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	4349463	4290660	4306371	4340371	4317159	4322038
Combustible fuels	3034500	3016908	2985891	2995556	2962870	2886040
Hydro	344561	298287	290113	281527	271129	292113
Nuclear	821405	801129	822004	830584	830288	839918
Other	148997	174336	208363	232704	252872	303967
Main activity	4184832	4116563	4128386	4166530	4139295	4141317
Combustible fuels	2879760	2854720	2822349	2835071	2802188	2725711
Hydro	342720	295887	286579	280195	269675	290596
Nuclear	821405	801129	822004	830584	830288	839918
Other	140947	164827	197454	220680	237144	285092
Own use in electricity, CHP and heat plants	213327	213509	212970	216819	207940	202593
Net production	4136136	4077151	4093401	4123552	4109219	4119445
Imports	52301	59257	70355	66511	75770	69601
Exports	15038	11995	11353	13298	9100	9329
Losses	259528	268753	255322	255322	255322	234807
Consumption	3913871	3855660	3897081	3921443	3920567	3944910
Energy industries own use	134448	128886	129517	132489	139731	137199
By industry and construction	851555	845911	846485	821040	806248	796896
By transport	6559	6841	7234	7605	8872	10605
By households and other cons.	2921309	2874022	2913845	2960309	2965716	3000210
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1055280	1067878	1065293	1074544	1072470	1086849
Combustible fuels	798833	793352	787297	787407	771732	764787
Hydro	100944	101106	101589	102162	102239	102692
Nuclear	101419	101885	99240	98569	98672	99565
Other	54084	71535	77167	86406	99827	119805
Main activity	1020465	1031417	1027776	1036351	1031496	1042991
Combustible fuels	769510	764085	758052	758205	742417	735654
Hydro	100014	100442	100911	101856	101933	102335
Nuclear	101419	101885	99240	98569	98672	99565
Other	49522	65005	69573	77721	88474	105437
Combustible fuel input	Terajoules					
Hard Coal	9238760	7847311	8070925	8409391	6977919	6528743
Brown Coal	9197146	8305577	8624213	8268422	7554207	6817768
Biogas	122381	135501	146036	162387	159616	150566
Fuel oil	92193	76841	77204	95263	92031	69044
Refinery gas	62172	74102	84101	83111	85833	61281
Petroleum coke	142643	105658	135785	124475	115050	125580
Natural gas	8828413	10578971	9626697	9602281	11248873	11524237
Vegetal waste	*102314	*97925	*106875	*112040	*100065	*83892
Municipal waste	277175	274975	274962	274254	271824	280711
Black liquor	*122209	*116966	*127656	*133826	*119522	*100204
Others	231084	219446	210413	248146	218669	169353
Total input	28416490	27833272	27484867	27513596	26943608	25911379
Total production	10924200	10860869	10749208	10784002	10666332	10389744
Estimated efficiency (% of production to input)	38	39	39	39	40	40

Statistics on electricity

United States Virgin Is.

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	954	881	834	*788	*797	*795
Combustible fuels	951	872	820	*766	*766	*765
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*3	*9	*14	*22	*31	*30
Main activity	911	873	821	*772	*777	*776
Combustible fuels	911	872	820	*766	*766	*765
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*1	*1	*1	*6	*11	*11
Own use in electricity, CHP and heat plants	88	94	93	*87	*81	*81
Net production	866	787	740	*701	*715	*714
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*70	*63	*60	*60	*60	*65
Consumption	796	724	681	641	*656	*649
Energy industries own use	..	..	..	..	..	..
By industry and construction	338	319	309	291	*298	*273
By transport	..	..	..	..	..	..
By households and other cons.	458	405	371	350	*358	*376
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	347	337	327	333	*340	*340
Combustible fuels	345	330	316	316	*316	*316
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*3	*7	*11	*17	*24	*24
Main activity	331	331	317	321	*325	*325
Combustible fuels	330	330	316	316	*316	*316
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*1	*1	*1	*5	*9	*9
Combustible fuel input	Terajoules					
Total input	..	..	..	..	..	..
Total production	3422	3140	2952	*2759	*2758	*2752
Estimated efficiency (% of production to input)	..	..	..	..	..	..

Statistics on electricity

Uruguay

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	10345	10601	11657	13008	13734	13805
Combustible fuels	3755	5062	3309	2623	3352	2897
Hydro	6479	5421	8206	9649	8268	7842
Nuclear	..	..	..	..	..	..
Other	111	118	143	736	2114	3066
Main activity	9535	9734	10730	11728	12130	12410
Combustible fuels	2945	4197	2384	1349	1757	1519
Hydro	6479	5421	8206	9649	8268	7842
Nuclear	..	..	..	..	..	..
Other	111	117	140	730	2105	3049
Own use in electricity, CHP and heat plants	209	282	325	361	385	-80
Net production	10135	10319	11332	12647	13349	13885
Imports	477	742	0	0	2	24
Exports	19	20	206	1267	1321	779
Losses	1288	1292	1281	1252	1490	1608
Consumption	9368	9646	9956	10239	10647	11508
Energy industries own use	60	66	106	107	*108	393
By industry and construction	2526	2477	2625	2906	3251	3384
By transport	..	..	..	..	..	..
By households and other cons.	6782	7103	7225	7226	7289	7730
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2701	2911	3288	3713	3989	3913
Combustible fuels	1119	1320	1689	1690	1530	1075
Hydro	1538	1538	1538	1538	1538	1538
Nuclear	..	..	..	..	..	..
Other	44	53	61	485	921	1300
Main activity	2437	2644	2844	3264	3477	3499
Combustible fuels	869	1069	1268	1268	1098	771
Hydro	1538	1538	1538	1538	1538	1538
Nuclear	..	..	..	..	..	..
Other	30	37	38	458	841	1189
Combustible fuel input	Terajoules					
Gas-diesel oil	15029	20124	9985	2928	7547	3496
Fuel oil	11502	18834	9235	4444	1976	1216
Natural gas	815	71	9	20	0	0
Fuelwood	91	338	478	95	232	176
Bagasse	76	54	82	100	*126	*147
Vegetal waste	583	2100	2165	2605	*3265	*3746
Black liquor	4554	4612	4956	6774	*8492	*8450
Total input	32650	46134	26909	16967	*21636	*17231
Total production	13517	18224	11911	9443	12066	10430
Estimated efficiency (% of production to input)	41	40	44	56	56	61

Statistics on electricity
Uzbekistan

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	52400	52500	54200	55400	57280	58319
Combustible fuels	42160	41290	42640	43570	45450	46489
Hydro	10240	11210	11560	11830	11830	11830
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	52203	52307	54001	55196	57067	58102
Combustible fuels	41963	41097	42441	43366	45237	46272
Hydro	10240	11210	11560	11830	11830	11830
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	2985	2992	3089	3157	3199	3234
Net production	49415	49508	51111	52243	54081	55085
Imports	12500	12524	12930	13216	11336	10839
Exports	12411	12435	12838	13122	12384	12319
Losses	4623	4628	4778	4884	4949	5002
Consumption	44881	44969	46425	47453	48084	48603
Energy industries own use	1505	1508	1557	1591	1612	1629
By industry and construction	16612	16644	17183	17563	17797	17989
By transport	1426	1429	1476	1509	1529	1546
By households and other cons.	25338	25388	26209	26790	27146	27439
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*12400	*12722	*12722	*12722	*12722	*12813
Combustible fuels	*10569	*10867	*10867	*10867	*10867	*10958
Hydro	*1831	*1855	*1855	*1855	*1855	*1855
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*12245	*12565	*12565	*12565	*12565	*12655
Combustible fuels	*10414	*10710	*10710	*10710	*10710	*10800
Hydro	*1831	*1855	*1855	*1855	*1855	*1855
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Brown Coal	38965	39038	40299	41178	42570	43317
Gas-diesel oil	43	0	0	..	..	..
Fuel oil	6504	4606	3353	2424	1778	1818
Natural gas	560347	550188	569848	583441	609798	551961
Total input	605859	593832	613500	627043	654145	597096
Total production	151776	148644	153504	156852	163620	167360
Estimated efficiency (% of production to input)	25	25	25	25	25	28

Statistics on electricity

Vanuatu

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*68	67	*68	*67	*64	*71
Combustible fuels	*57	57	*58	*56	*50	*56
Hydro	6	7	*7	*7	*7	*7
Nuclear	..	..	..	..	..	..
Other	*5	3	*3	*3	*7	*8
Main activity	*68	67	*68	*67	*64	*71
Combustible fuels	*57	57	*58	*56	*50	*56
Hydro	6	7	*7	*7	*7	*7
Nuclear	..	..	..	..	..	..
Other	*5	3	*3	*3	*7	*8
Own use in electricity, CHP and heat plants	2	2	*2	*2	*2	*2
Net production	*66	65	*66	*65	*61	*69
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	3	3	3	3	*3	*4
Consumption	63	61	62	61	58	65
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	63	61	62	61	58	65
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	31	31	31	31	*32	*32
Combustible fuels	27	27	27	27	*27	*27
Hydro	1	1	1	1	1	1
Nuclear	..	..	..	..	..	..
Other	3	3	3	3	3	4
Main activity	31	31	31	31	*32	*32
Combustible fuels	27	27	27	27	*27	*27
Hydro	1	1	1	1	1	1
Nuclear	..	..	..	..	..	..
Other	3	3	3	3	3	4
Combustible fuel input	Terajoules					
Gas-diesel oil	*538	*538	*542	*533	*458	*559
Other liquid biofuels	*27	*55	*55	*55	*55	*27
Total input	*565	*592	*597	*588	*513	*586
Total production	*205	205	*207	*203	*180	*203
Estimated efficiency (% of production to input)	36	35	35	35	35	35

Statistics on electricity
Venezuela (Bolivar. Rep.)

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	117961	129313	134220	132492	128815	118130
Combustible fuels	34291	47452	52627	52009	53832	55068
Hydro	83670	81856	81499	80364	74902	62959
Nuclear	..	..	..	..	..	..
Other	..	5	94	119	80	104
Main activity	116731	127854	132683	130959	126777	116161
Combustible fuels	33061	45993	51090	50476	51794	53099
Hydro	83670	81856	81499	80364	74902	62959
Nuclear	..	..	..	..	..	..
Other	..	5	94	119	80	104
Own use in electricity, CHP and heat plants	1152	1463	1526	1717	1445	1490
Net production	116809	127850	132694	130775	127369	116640
Imports	249	478	715	24	0	0
Exports	..	814	848	889	974	1107
Losses	24133	*27613	*28127	*40041	*36343	*31343
Consumption	87072	96874	100706	87232	87538	81705
Energy industries own use	2201	2114	1830	1847	1634	1426
By industry and construction	38094	*39604	*40129	*25407	*25266	*21972
By transport	290	302	308	248	241	221
By households and other cons.	46487	54853	58439	59730	60397	58086
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	27008	29026	31595	31771	31802	32967
Combustible fuels	12386	14371	16662	16838	16869	17777
Hydro	14622	14623	14880	14880	14880	15137
Nuclear	..	..	..	..	..	..
Other	..	33	53	53	53	53
Main activity	25705	27723	30292	30467	30792	31957
Combustible fuels	11083	13068	15359	15534	15859	16767
Hydro	14622	14623	14880	14880	14880	15137
Nuclear	..	..	..	..	..	..
Other	..	33	53	53	53	53
Combustible fuel input	Terajoules					
Gas-diesel oil	150199	199262	187652	194618	220676	199262
Fuel oil	52399	37936	36118	25654	25048	22624
Natural gas	203993	242057	254992	254371	338034	326524
Total input	406591	479255	478762	474643	583758	548410
Total production	123448	170827	189456	187233	193796	198245
Estimated efficiency (% of production to input)	30	36	40	39	33	36

Statistics on electricity
Viet Nam

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	105219	118940	128549	145730	*157949	181401
Combustible fuels	63944	65676	70287	83950	*100434	115992
Hydro	41188	53172	58170	61480	57254	65188
Nuclear	..	..	..	..	..	..
Other	87	*92	*92	*300	*261	221
Main activity	101586	115237	124546	141548	*153767	174319
Combustible fuels	60311	61976	66287	79850	*96334	108992
Hydro	41188	53171	58169	61400	57174	65108
Nuclear	..	..	..	..	..	..
Other	87	*90	*90	*298	*259	219
Own use in electricity, CHP and heat plants	3355	*4003	*4549	*5767	*6251	4411
Net production	101864	114937	124000	139963	*151698	176990
Imports	301	159	221	2053	1709	1489
Exports	79	29	178	880	805	739
Losses	10060	*11500	*11500	*12509	*12541	*13732
Consumption	93523	104255	115283	128627	143683	159791
Energy industries own use	..	..	..	..	..	..
By industry and construction	50328	55568	61277	69524	77189	85686
By transport	..	..	..	..	..	..
By households and other cons.	43195	48687	54006	59103	66494	74105
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*25731	*28240	*28240	*34080	*38553	*42135
Combustible fuels	*17700	*17700	*17700	*18269	*22779	*25783
Hydro	*8000	*10503	*10503	*15702	*15639	*16187
Nuclear	..	..	..	..	..	..
Other	*31	*37	*37	109	135	*165
Main activity	*23031	*25531	*25531	*30952	*35425	*36744
Combustible fuels	*15000	*15000	*15000	*15455	*19965	*20728
Hydro	*8000	*10500	*10500	*15394	*15331	*15857
Nuclear	..	..	..	..	..	..
Other	*31	*31	*31	103	129	*159
Combustible fuel input	Terajoules					
Hard Coal	254835	266675	321187	400645	529856	614098
Gas-diesel oil	7310	1333	1548	2365	1720	6751
Fuel oil	17170	3878	4404	4808	8726	8767
Natural gas	312217	317032	328579	347890	366899	366913
Fuelwood	644	651	658	665	672	679
Total input	592176	589569	656375	756373	907874	997207
Total production	230198	236434	253033	302220	*361562	417571
Estimated efficiency (% of production to input)	39	40	39	40	40	42

Statistics on electricity

Wallis and Futuna Is.

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	20	19	19	19	18	20
Combustible fuels	20	19	19	19	18	20
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	20	19	19	19	18	20
Combustible fuels	20	19	19	19	18	20
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	3	2	2	2	2	0
Net production	17	17	17	16	16	20
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*1	*1	*1	*1	0	4
Consumption	*16	*16	*15	*16	*16	*16
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*16	*16	*15	*16	*16	*16
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	11	11	*11	*11	9	*9
Combustible fuels	11	11	*11	*11	9	*9
Hydro	0	0	0	0	0	0
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Main activity	11	11	*11	*11	9	*9
Combustible fuels	11	11	*11	*11	9	*9
Hydro	0	0	0	0	0	0
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Combustible fuel input	Terajoules					
Gas-diesel oil	*243	*233	*228	*225	*225	*236
Total input	*243	*233	*228	*225	*225	*236
Total production	71	68	68	67	66	72
Estimated efficiency (% of production to input)	29	29	30	30	29	31

Statistics on electricity

Yemen

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	6207	7077	8510	7756	6017	5045
Combustible fuels	6204	7073	8501	7646	5468	4313
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	3	4	9	110	549	732
Main activity	5935	6727	8256	7406	5295	4157
Combustible fuels	5935	6727	8256	7406	5295	4157
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	539	580	1341	1203	860	675
Net production	5668	6497	7169	6553	5157	4370
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	1590	2330	2190	1965	1405	1103
Consumption	4078	4167	4979	4588	3471	4034
Energy industries own use	..	..	..	..	..	..
By industry and construction	148	148	203	161	115	90
By transport	..	..	..	..	..	..
By households and other cons.	3930	4019	4776	4427	3356	3944
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1535	1535	1535	1519	1519	1519
Combustible fuels	1535	1535	1535	1519	1519	1519
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	1417	1417	1417	1402	1402	1402
Combustible fuels	1417	1417	1417	1402	1402	1402
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	20898	24682	30874	25112	17114	14620
Fuel oil	36804	32603	30017	24280	16524	14100
Natural gas	17880	28924	34605	37478	28763	20045
Total input	75582	86209	95496	86870	62401	48765
Total production	22334	25463	30604	27526	19685	15527
Estimated efficiency (% of production to input)	30	30	32	32	32	32

Statistics on electricity

Zambia

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	11498	12369	13301	14455	13440	11695
Combustible fuels	15	19	20	413	405	670
Hydro	11483	12350	13281	14042	13035	11025
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	11498	12369	13301	14455	13440	11695
Combustible fuels	15	19	20	413	405	670
Hydro	11483	12350	13281	14042	13035	11025
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	288	288	306	331	0	325
Net production	11210	12081	12995	14124	13440	11370
Imports	120	163	73	13	785	2185
Exports	29	980	1083	1256	1176	794
Losses	2730	945	1139	2162	1599	1903
Consumption	8571	10319	10846	10719	11450	10858
Energy industries own use	..	..	..	..	..	..
By industry and construction	4497	6092	6379	6429	6860	6455
By transport	23	24	28	31	33	28
By households and other cons.	4051	4203	4439	4259	4557	4375
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1959	1959	2038	2452	2411	2827
Combustible fuels	91	91	141	195	142	439
Hydro	1868	1868	1897	2257	2269	2388
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	0	0
Main activity	1959	1959	2038	2452	2411	2827
Combustible fuels	91	91	141	195	142	439
Hydro	1868	1868	1897	2257	2269	2388
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	0	0
Combustible fuel input	Terajoules					
Hard Coal	..	..	..	..	..	3928
Gas-diesel oil	430	430	430	430	430	430
Fuel oil	40	0	0	2990	3272	2747
Total input	470	430	430	3420	3702	7105
Total production	53	68	72	1485	1459	2412
Estimated efficiency (% of production to input)	11	16	17	43	39	34

Statistics on electricity
Zimbabwe

Item	2011	2012	2013	2014	2015	2016
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	9177	9149	9499	9812	9522	7090
Combustible fuels	3975	3761	4517	4410	4583	4175
Hydro	5202	5387	4982	5402	4939	2915
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	9019	8963	9315	9783	9468	6812
Combustible fuels	3817	3575	4333	4381	4529	3897
Hydro	5202	5387	4982	5402	4939	2915
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	122	99	112	184	189	35
Net production	9055	9050	9387	9628	9333	7055
Imports	1579	1076	1722	1127	1139	2220
Exports	988	701	1189	1226	1239	369
Losses	1613	1767	1702	1648	1654	1533
Consumption	8043	7831	8285	8238	6876	7282
Energy industries own use	..	..	..	..	..	..
By industry and construction	3343	3084	3115	3388	2524	2645
By transport	..	..	..	..	..	..
By households and other cons.	4700	4747	5170	4850	4352	4637
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*2112	*2112	*2112	1992	1992	2015
Combustible fuels	*1355	*1355	*1355	1235	1235	1265
Hydro	757	757	757	757	757	750
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*2067	*2067	*2067	1947	1947	1970
Combustible fuels	*1310	*1310	*1310	1190	1190	1220
Hydro	757	757	757	757	757	750
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Hard Coal	61848	57474	69596	70325	74266	63900
Gas-diesel oil	602	688	774	731	645	559
Coke-oven gas	0	..	..	..	..	..
Fuelwood	*16	*9	0	0	*84	*24
Bagasse	3665	2405	2390	2074	1757	1714
Total input	66131	60576	72760	73130	76752	66197
Total production	14311	13541	16261	15874	16498	15029
Estimated efficiency (% of production to input)	22	22	22	22	21	23