

Statistics on electricity

Madagascar

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1983	2099	2178	2167	2245	2274
Combustible fuels	1177	1107	1259	1317	1441	1398
Hydro	783	968	886	818	767	822
Nuclear	..	..	..	..	..	..
Other	23	*23	32	32	36	54
Main activity	1723	1820	1892	1869	1911	1934
Combustible fuels	917	829	974	1018	1107	1058
Hydro	783	968	886	818	767	822
Nuclear	..	..	..	..	..	..
Other	23	*23	32	32	36	54
Own use in electricity, CHP and heat plants	38	*29	*43	*38	*30	*29
Net production	1945	2070	2134	2129	2215	2245
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	128	*130	*135	*132	*135	*137
Consumption	1817	*1940	1999	*1997	*2080	2108
Energy industries own use	..	..	..	..	..	..
By industry and construction	*434	*608	*533	*643	*659	*700
By transport	..	..	..	..	..	..
By households and other cons.	1383	*1332	1466	*1354	*1421	1408
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	721	708	595	*653	*699	*758
Combustible fuels	542	521	407	*465	*511	*515
Hydro	166	165	165	164	164	192
Nuclear	..	..	..	..	..	..
Other	13	22	23	24	24	51
Main activity	615	600	489	*551	*596	*653
Combustible fuels	436	413	301	*363	*408	*410
Hydro	166	165	165	164	164	192
Nuclear	..	..	..	..	..	..
Other	13	22	23	24	24	51
Combustible fuel input	Terajoules					
Hard Coal	963	851	955	*1084	*1135	*1135
Gas-diesel oil	*4188	*4184	*4175	*4150	*4128	*4300
Fuel oil	5276	5361	5822	6686	*7983	*6464
Bagasse	*368	*335	*377	*402	*432	*432
Total input	10796	10732	11328	12321	*13679	*12332
Total production	4237	3987	4532	4740	5189	5033
Estimated efficiency (% of production to input)	39	37	40	38	38	41

Statistics on electricity

Malawi

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1917	1803	1937	2191	2401	2115
Combustible fuels	*54	*385	*125	324	167	193
Hydro	1824	1365	1647	1867	2194	1757
Nuclear	..	..	..	..	..	..
Other	39	53	165	0	40	165
Main activity	1863	1418	1812	2061	2271	1985
Combustible fuels	*1	*5	*5	199	42	68
Hydro	1823	1360	1642	1862	2189	1752
Nuclear	..	..	..	..	..	..
Other	39	53	165	0	40	165
Own use in electricity, CHP and heat plants	108	11	50	5	127	307
Net production	1809	1792	1887	2186	2273	1808
Imports	..	..	..	10	17	19
Exports	20	19	20	20	20	15
Losses	*279	*296	*291	381	537	343
Consumption	1575	1474	1696	1817	1795	1716
Energy industries own use	..	..	..	..	..	..
By industry and construction	757	581	823	917	796	755
By transport	..	..	..	..	..	..
By households and other cons.	818	893	873	900	999	961
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	586	593	719	747	728	*752
Combustible fuels	*211	*211	*263	*263	*263	*263
Hydro	356	356	376	403	403	*407
Nuclear	..	..	..	..	..	..
Other	19	26	80	*80	61	81
Main activity	371	378	504	532	513	*537
Combustible fuels	*1	*1	53	53	53	53
Hydro	351	351	371	398	398	*402
Nuclear	..	..	..	..	..	..
Other	19	26	80	*80	61	81
Combustible fuel input	Terajoules					
Motor gasoline	..	..	..	22	22	22
Gas-diesel oil	*22	*4588	*1075	2004	*457	*632
Bagasse	*903	*903	*903	1682	1307	1307
Total input	*925	*5492	*1978	3708	1786	1962
Total production	*194	*1386	*450	1166	600	693
Estimated efficiency (% of production to input)	21	25	23	31	34	35

Statistics on electricity

Malaysia

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	164509	170578	178440	174224	180070	187398
Combustible fuels	137599	143621	150783	144794	146849	154005
Hydro	26580	26325	26167	27295	31101	31101
Nuclear	..	..	..	..	..	..
Other	330	632	1490	2136	2120	2292
Main activity	159257	163415	171270	167466	173301	180102
Combustible fuels	132352	136517	143699	138128	140173	146808
Hydro	26575	26325	26167	27295	31101	31101
Nuclear	..	..	..	..	..	..
Other	330	573	1404	2044	2027	2193
Own use in electricity, CHP and heat plants	4588	696	6147	6010	6209	6464
Net production	159921	169882	172293	168215	173861	180934
Imports	7	20	41	18	35	31
Exports	1124	1509	1699	1572	977	1416
Losses	12288	14109	12301	12010	12413	12918
Consumption	146520	152866	158709	152131	155400	164228
Energy industries own use	..	..	..	..	..	..
By industry and construction	71417	76088	78480	74245	77409	80144
By transport	459	482	478	390	349	255
By households and other cons.	74644	76296	79752	77496	77642	83829
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	33334	34389	*34153	*35863	36985	39690
Combustible fuels	26848	26432	*26260	*27257	28168	30768
Hydro	6128	6168	6245	6275	6190	6215
Nuclear	..	..	..	..	..	..
Other	358	1790	1648	2331	2626	2707
Main activity	30892	31714	*31699	*33410	34532	37325
Combustible fuels	24410	24479	*24498	*25497	26408	29008
Hydro	6126	6168	6245	6275	6190	6215
Nuclear	..	..	..	..	..	..
Other	356	1066	956	1638	1933	2102
Combustible fuel input	Terajoules					
Hard Coal	794090	857092	810193	981830	897022	939426
Biogas	1715	6146	4425	6025	5795	5835
Gas-diesel oil	15738	14448	24892	8957	11184	11184
Fuel oil	4040	687	769	486	326	326
Natural gas	540161	536208	670151	523688	505285	555000
Vegetal waste	*8196	12581	12624	9945	10886	10925
Total input	1363940	1427162	1523054	1530930	1430498	1522696
Total production	495356	517036	542820	521258	528657	554418
Estimated efficiency (% of production to input)	36	36	36	34	37	36

Statistics on electricity

Maldives

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	728	773	830	745	1195	1227
Combustible fuels	709	745	797	703	1151	1178
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	19	27	33	43	45	49
Main activity	468	493	580	535	1035	1097
Combustible fuels	449	465	547	493	991	1048
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	19	27	33	43	45	49
Own use in electricity, CHP and heat plants	*21	*21	*21	*25	*28	*32
Net production	707	752	809	720	1167	1195
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*44	*46	*50	*45	*72	*74
Consumption	*663	*706	*759	*675	*1096	*1121
Energy industries own use	..	..	..	..	..	..
By industry and construction	*37	*39	*40	*36	*58	*59
By transport	..	..	..	..	..	..
By households and other cons.	*626	*667	*719	*640	*1038	*1062
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*278	*304	410	*414	*419	*431
Combustible fuels	*266	*286	388	*386	*387	*394
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	12	18	22	28	32	37
Main activity	*153	*179	*200	*204	*209	*217
Combustible fuels	*141	*161	*178	*176	*177	*180
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	12	18	22	28	32	37
Combustible fuel input	Terajoules					
Gas-diesel oil	*8109	*8790	*9086	*8389	*11640	*12068
Total input	*8109	*8790	*9086	*8389	*11640	*12068
Total production	2552	2683	2868	2529	4143	4242
Estimated efficiency (% of production to input)	31	31	32	30	36	35

Statistics on electricity

Mali

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*3096	*3289	*3535	*3728	*3969	*4209
Combustible fuels	*1935	*1991	*2137	*2191	*2381	*2296
Hydro	1130	*1267	1365	1444	*1473	1787
Nuclear	..	..	..	..	..	..
Other	31	31	33	93	115	125
Main activity	2082	*2218	2411	2595	*2806	2860
Combustible fuels	949	949	1044	1090	*1250	*1011
Hydro	1130	*1267	1365	1444	*1473	1787
Nuclear	..	..	..	..	..	..
Other	3	3	2	61	83	62
Own use in electricity, CHP and heat plants	*12	*99	*106	*112	*119	126
Net production	*3084	*3190	*3429	*3616	*3850	*4082
Imports	*117	437	604	766	402	489
Exports	*535	571	560	615	533	899
Losses	*318	*356	*370	*407	*419	*441
Consumption	*2348	2700	3103	3361	3301	3231
Energy industries own use	..	..	..	..	..	..
By industry and construction	*920	*969	*1241	*1385	*1151	*1040
By transport	..	..	..	..	..	..
By households and other cons.	*1428	1731	1862	1976	2150	2191
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1098	1098	1100	1154	1154	*1295
Combustible fuels	629	629	629	629	629	*675
Hydro	*450	*450	*450	*453	*453	*523
Nuclear	..	..	..	..	..	..
Other	19	19	21	71	71	97
Main activity	*821	*821	*821	*874	*874	*948
Combustible fuels	369	369	369	369	369	*369
Hydro	*450	*450	*450	*453	*453	*523
Nuclear	..	..	..	..	..	..
Other	2	2	2	52	52	56
Combustible fuel input	Terajoules					
Gas-diesel oil	13674	14233	11180	12556	16598	17071
Fuel oil	8040	10504	11635	9413	8484	11150
Bagasse	896	896	896	896	896	896
Total input	22609	25633	23711	22865	25978	29117
Total production	*6965	*7167	*7692	*7888	*8572	*8266
Estimated efficiency (% of production to input)	31	28	32	34	33	28

Statistics on electricity

Malta

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1652	1962	2060	2143	2215	2293
Combustible fuels	1489	1772	1864	1906	1959	2004
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	162	190	195	237	256	290
Main activity	1480	1763	1858	1900	1952	1997
Combustible fuels	1480	1763	1858	1900	1952	1997
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	49	50	59	62	55	52
Net production	1603	1912	2001	2081	2160	2242
Imports	897	631	657	420	547	646
Exports	36	11	20	4	36	7
Losses	144	143	158	128	167	185
Consumption	2320	2390	2479	2368	2505	2696
Energy industries own use	3	3	5	5	3	3
By industry and construction	459	477	470	462	490	504
By transport	0	1	2	2	6	10
By households and other cons.	1858	1909	2002	1899	2006	2180
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	706	727	750	783	800	723
Combustible fuels	595	595	595	595	595	501
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	112	132	155	188	206	223
Main activity	590	590	590	590	590	498
Combustible fuels	590	590	590	590	590	498
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Biogas	46	43	31	28	56	40
Gas-diesel oil	252	224	410	997	439	663
Fuel oil	1913	0	..	..	..	..
Natural gas	10776	13602	14216	14799	14777	15011
Total input	12987	13869	14657	15824	15271	15715
Total production	5362	6381	6712	6862	7053	7214
Estimated efficiency (% of production to input)	41	46	46	43	46	46

Statistics on electricity

Marshall Islands

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*89	*89	*90	*90	*82	*92
Combustible fuels	*87	*87	*88	*88	*80	*90
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	2	2	2	*2
Main activity	*89	*89	*90	*90	*82	*92
Combustible fuels	*87	*87	*88	*88	*80	*90
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	2	2	2	*2
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	*89	*89	*90	*90	*82	*92
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	11	11	12	*13	*13	*13
Consumption	*78	*78	*78	*77	*69	*79
Energy industries own use	..	..	..	..	..	..
By industry and construction	*5	*5	*6	*6	*6	*6
By transport	..	..	..	..	..	..
By households and other cons.	*73	*73	*72	*71	*63	*73
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*35	*35	32	*32	*32	*32
Combustible fuels	*33	*33	30	*30	*30	*30
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	2	2	2	2
Main activity	*35	*35	32	*32	*32	*32
Combustible fuels	*33	*33	30	*30	*30	*30
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	2	2	2	2
Combustible fuel input	Terajoules					
Gas-diesel oil	*834	*817	*817	*826	*826	*839
Total input	*834	*817	*817	*826	*826	*839
Total production	*313	*313	*317	*317	*288	*324
Estimated efficiency (% of production to input)	38	38	39	38	35	39

Statistics on electricity

Mauritania

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1192	1281	1477	*1461	*1364	1510
Combustible fuels	1022	1023	1216	*1178	*1080	1277
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	170	258	*261	283	*284	233
Main activity	841	925	1102	*1081	*980	1181
Combustible fuels	680	677	854	*810	*710	960
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	161	248	*248	271	*270	221
Own use in electricity, CHP and heat plants	104	105	95	72	34	37
Net production	1088	1176	1382	*1389	*1330	1473
Imports	*185	198	204	*225	*200	394
Exports	..	..	..	..	..	..
Losses	*210	*230	*217	*224	*210	*184
Consumption	1063	1143	1369	1390	1320	1682
Energy industries own use	..	..	..	..	..	..
By industry and construction	343	342	372	380	383	274
By transport	..	..	..	..	..	..
By households and other cons.	720	801	997	1010	937	1408
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*508	*571	*608	*626	*626	*626
Combustible fuels	*421	*449	*486	*504	*504	*504
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	87	122	*122	*122	*122	*122
Main activity	*421	*479	*511	*524	*524	*524
Combustible fuels	*341	*364	*396	*409	*409	*409
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	80	115	*115	*115	*115	*115
Combustible fuel input	Terajoules					
Gas-diesel oil	*7310	*8815	*9370	*8905	*8011	*9718
Fuel oil	*2771	*2020	*2424	*2788	*2586	*2586
Total input	*10081	*10835	*11794	*11693	*10597	*12304
Total production	3678	3683	4376	*4239	*3889	4598
Estimated efficiency (% of production to input)	36	34	37	36	37	37

Statistics on electricity

Mauritius

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	3120	3131	3237	2883	2992	3119
Combustible fuels	2976	2943	2994	2603	2719	2821
Hydro	90	125	99	116	107	128
Nuclear	..	..	..	..	..	..
Other	54	64	144	164	167	170
Main activity	1293	1373	1482	1201	1226	1674
Combustible fuels	1201	1246	1381	1082	1114	1537
Hydro	90	125	99	116	107	128
Nuclear	..	..	..	..	..	..
Other	3	3	3	3	5	9
Own use in electricity, CHP and heat plants	44	44	45	47	53	59
Net production	3076	3088	3192	2836	2939	3060
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	187	165	182	143	191	172
Consumption	2880	2918	3001	2683	2748	2887
Energy industries own use	..	..	..	..	..	..
By industry and construction	994	1002	991	863	898	872
By transport	..	..	..	..	5	8
By households and other cons.	1886	1916	2010	1820	1845	2007
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	835	873	844	862	863	866
Combustible fuels	732	732	681	681	684	684
Hydro	60	60	60	61	61	61
Nuclear	..	..	..	..	..	..
Other	43	81	103	120	119	122
Main activity	516	516	516	516	517	517
Combustible fuels	450	450	450	450	450	450
Hydro	60	60	60	61	61	61
Nuclear	..	..	..	..	..	..
Other	5	5	5	5	7	7
Combustible fuel input	Terajoules					
Hard Coal	18871	17916	16464	16139	18046	14352
Biogas	61	81	71	89	69	*65
Gas-diesel oil	55	34	28	35	39	34
Fuel oil	9672	9991	11034	8574	8973	12358
Other kerosene	41	28	162	11	26	35
Bagasse	8324	7791	7736	6514	6161	5286
Total input	37025	35842	35495	31362	33313	32131
Total production	10714	10593	10779	9370	9787	10156
Estimated efficiency (% of production to input)	29	30	30	30	29	32

Statistics on electricity

Mexico

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	323124	357592	344839	317680	381364	343847
Combustible fuels	261726	279724	267416	245464	294525	236550
Hydro	31981	32526	23716	26817	34537	35851
Nuclear	10883	13675	11190	11262	11923	10850
Other	18534	31667	42517	34137	40379	60596
Main activity	260164	292942	284294	250943	321284	271258
Combustible fuels	209160	226758	220287	191853	248122	202246
Hydro	31040	31621	22927	26009	33754	34952
Nuclear	10883	13675	11190	11262	11923	10850
Other	9082	20888	29890	21819	27485	23210
Own use in electricity, CHP and heat plants	13205	11499	6509	5447	5772	12824
Net production	309919	346093	338330	312233	375592	331023
Imports	2151	3673	3907	9965	1737	2147
Exports	1804	2426	3084	5955	2693	2421
Losses	43915	42075	40018	36985	42047	41126
Consumption	275859	303881	284167	303740	297771	302834
Energy industries own use	3938	4185	4092	3781	2730	2839
By industry and construction	147465	168392	153433	175159	171470	177040
By transport	1077	1073	1106	945	1582	1634
By households and other cons.	123379	130231	125537	123855	121989	121321
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	74461	87456	95715	96985	106610	116228
Combustible fuels	54388	62010	63521	63521	71083	64326
Hydro	12628	12628	13076	13301	13303	12838
Nuclear	1608	1634	1721	1721	1721	1608
Other	5837	11184	17397	18442	20503	37456
Main activity	57546	75252	83839	85118	93427	97045
Combustible fuels	41616	53963	56823	56823	63452	55762
Hydro	12395	12395	12851	13076	13078	12613
Nuclear	1608	1634	1721	1721	1721	1608
Other	1927	7260	12444	13498	15176	27062
Combustible fuel input	Terajoules					
Hard Coal	205979	183718	201282	137603	138298	193423
Brown Coal	133446	120895	99833	51313	57610	81082
Biogas	2265	2082	2195	2888	2437	2403
Gas-diesel oil	31820	40936	34701	34701	38657	58179
Fuel oil	306838	256823	365984	365984	374670	156025
Petroleum coke	38350	37863	37830	37830	32598	35555
Natural gas	1782417	1737265	1666240	1661626	1986838	1613079
Blast furnace gas	3470	2452	2060	2452	1420	1418
Bagasse	*76659	*76630	*73843	*69390	*55635	*57316
Industrial waste	897	1010	1067	1200	8602	285
Others	2870	*10896	*7215	*6897	117	113
Total input	2585012	2470569	2492249	2371884	2696881	2198878
Total production	942212	1007006	962698	883670	1060290	851578
Estimated efficiency (% of production to input)	36	41	39	37	39	39

Statistics on electricity

Micronesia (Fed. States of)

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*69	*70	*77	*85	*90	*91
Combustible fuels	*65	*65	*71	*80	*86	*86
Hydro	1	1	1	1	*1	*1
Nuclear	..	..	..	..	..	..
Other	2	4	4	3	3	*4
Main activity	*69	*70	*77	*85	*90	*91
Combustible fuels	*65	*65	*71	*80	*86	*86
Hydro	1	1	1	1	*1	*1
Nuclear	..	..	..	..	..	..
Other	2	4	4	3	3	*4
Own use in electricity, CHP and heat plants	*2	*2	*3	*5	*4	*4
Net production	*67	*68	*73	*80	*86	*88
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*20	*21	*20	*20	21	*21
Consumption	*47	*47	*53	*60	*65	*67
Energy industries own use	..	..	..	..	..	..
By industry and construction	*17	*14	*12	*14	*15	*16
By transport	..	..	..	..	..	..
By households and other cons.	*31	*33	*41	*46	*50	*52
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*34	*35	*35	42	42	42
Combustible fuels	*32	*32	*32	38	38	38
Hydro	1	1	1	1	1	1
Nuclear	..	..	..	..	..	..
Other	1	3	3	3	3	3
Main activity	*34	*35	*35	42	42	42
Combustible fuels	*32	*32	*32	38	38	38
Hydro	1	1	1	1	1	1
Nuclear	..	..	..	..	..	..
Other	1	3	3	3	3	3
Combustible fuel input	Terajoules					
Gas-diesel oil	*830	*830	*826	*830	*820	*834
Total input	*830	*830	*826	*830	*820	*834
Total production	*235	*233	*257	*289	*308	*309
Estimated efficiency (% of production to input)	28	28	31	35	38	37

Statistics on electricity

Mongolia

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	6027	6535	6900	6970	7825	8035
Combustible fuels	5759	6055	6416	6486	7061	7387
Hydro	86	81	*85	85	138	68
Nuclear	..	..	..	..	..	..
Other	182	399	*399	399	627	580
Main activity	5941	6454	6815	6885	7687	7967
Combustible fuels	5759	6055	6416	6486	7061	7387
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	182	399	*399	399	627	580
Own use in electricity, CHP and heat plants	816	849	861	834	887	930
Net production	5211	5686	6040	6136	6938	7105
Imports	1574	1666	1723	1685	1823	2107
Exports	26	27	24	42	24	25
Losses	811	875	892	963	1019	1091
Consumption	5949	6450	6847	6817	7755	8095
Energy industries own use	..	..	..	..	..	..
By industry and construction	3692	4003	4249	4231	4791	5024
By transport	248	268	285	284	321	337
By households and other cons.	2009	2178	2313	2302	2644	2734
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1311	*1461	*1486	*1507	*1507	*1507
Combustible fuels	1132	*1210	*1210	*1230	*1230	*1230
Hydro	29	31	31	31	31	31
Nuclear	..	..	..	..	..	..
Other	150	220	245	246	246	246
Main activity	1272	*1420	*1445	*1466	*1466	*1466
Combustible fuels	1122	*1200	*1200	*1220	*1220	*1220
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	150	220	245	246	246	246
Combustible fuel input	Terajoules					
Hard Coal	51712	63440	45811	33124	53598	53601
Brown Coal	78587	79093	87952	90042	92966	100300
Gas-diesel oil	3913	4124	*4356	*4644	4803	*4816
Fuel oil	89	121	121	113	73	*101
Total input	134301	146777	138240	127923	151439	158818
Total production	20733	21799	23099	23349	25419	26592
Estimated efficiency (% of production to input)	15	15	17	18	17	17

Statistics on electricity

Montenegro

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	2483	3679	3423	3386	3781	3322
Combustible fuels	1348	1444	1506	1615	1444	1551
Hydro	1040	2092	1621	1448	2010	1444
Nuclear	..	..	..	..	..	..
Other	95	143	296	322	327	328
Main activity	2483	3679	3423	3386	3781	3322
Combustible fuels	1348	1444	1506	1615	1444	1551
Hydro	1040	2092	1621	1448	2010	1444
Nuclear	..	..	..	..	..	..
Other	95	143	296	322	327	328
Own use in electricity, CHP and heat plants	119	134	129	141	129	106
Net production	2364	3546	3294	3245	3653	3216
Imports	1537	780	1196	5943	5318	5352
Exports	417	976	943	5864	5489	5487
Losses	512	503	493	487	504	477
Consumption	2855	2847	3054	2837	2978	2604
Energy industries own use	..	..	..	..	..	..
By industry and construction	732	737	699	700	678	198
By transport	20	19	21	12	11	12
By households and other cons.	2103	2090	2335	2124	2289	2394
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	949	998	998	1042	1042	1043
Combustible fuels	225	225	225	225	225	225
Hydro	652	652	652	697	697	697
Nuclear	..	..	..	..	..	..
Other	72	120	120	121	121	121
Main activity	949	998	998	1042	1042	1043
Combustible fuels	225	225	225	225	225	225
Hydro	652	652	652	697	697	697
Nuclear	..	..	..	..	..	..
Other	72	120	120	121	121	121
Combustible fuel input	Terajoules					
Brown Coal	12341	14816	15109	15766	13704	14713
Total input	12341	14816	15109	15766	13704	14713
Total production	4853	5198	5423	5815	5199	5582
Estimated efficiency (% of production to input)	39	35	36	37	38	38

Statistics on electricity

Montserrat

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	13	14	14	14	14	14
Combustible fuels	13	14	14	14	13	13
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	0	0	0	0
Main activity	13	14	14	14	14	14
Combustible fuels	13	14	14	14	13	13
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	0	0	0	0
Own use in electricity, CHP and heat plants	1	1	1	1	1	1
Net production	13	13	13	13	13	13
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	0	1	0	0	0	0
Consumption	11	11	12	12	11	11
Energy industries own use	..	..	..	..	..	..
By industry and construction	0	0	0	0	0	0
By transport	..	..	..	..	..	..
By households and other cons.	11	11	12	12	11	11
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	5	5	6	6	6	*6
Combustible fuels	5	5	5	5	5	*5
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	0	0	1	1
Main activity	5	5	6	6	6	*6
Combustible fuels	5	5	5	5	5	*5
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	0	0	1	1
Combustible fuel input	Terajoules					
Gas-diesel oil	*172	*186	*168	*172	*181	*146
Total input	*172	*186	*168	*172	*181	*146
Total production	48	51	51	49	47	48
Estimated efficiency (% of production to input)	28	27	30	28	26	33

Statistics on electricity

Morocco

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	33192	35822	41650	40057	42562	42723
Combustible fuels	26875	27708	32390	31353	33120	33937
Hydro	1565	1998	1654	1290	1213	679
Nuclear	..	..	..	..	..	..
Other	4752	6116	7607	7414	8229	8106
Main activity	31804	34432	40083	38396	40942	41092
Combustible fuels	26875	27708	32214	31070	32885	33673
Hydro	1565	1998	1654	1290	1213	679
Nuclear	..	..	..	..	..	..
Other	3364	4726	6216	6036	6845	6740
Own use in electricity, CHP and heat plants	60	42	41	38	44	41
Net production	33132	35779	41610	40019	42518	42682
Imports	6058	3724	526	856	688	1868
Exports	161	350	1453	624	851	471
Losses	6066	6134	6703	6771	7274	7601
Consumption	32962	33020	33979	33480	35081	36478
Energy industries own use	510	406	527	577	541	459
By industry and construction	11825	12065	12431	11680	12838	13118
By transport	368	375	386	214	312	319
By households and other cons.	20259	20175	20634	21010	21389	22581
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	12555	12785	14412	14432	*14548	*14635
Combustible fuels	9128	9151	10276	10046	*10046	*10046
Hydro	1770	1770	1770	1770	1770	1770
Nuclear	..	..	..	..	..	..
Other	1657	1864	2366	2616	2732	2819
Main activity	8827	9057	10684	10704	*10820	*10907
Combustible fuels	5828	5851	6976	6746	*6746	*6746
Hydro	1770	1770	1770	1770	1770	1770
Nuclear	..	..	..	..	..	..
Other	1229	1436	1938	2188	2304	2391
Combustible fuel input	Terajoules					
Hard Coal	185656	214785	278225	279407	293030	296899
Gas-diesel oil	416	255	186	159	294	502
Fuel oil	34721	12420	8315	6733	14373	46111
Natural gas	44651	39792	37016	27994	27710	6184
Total input	265445	267252	323742	314292	335407	349696
Total production	96749	99749	116602	112870	119233	122175
Estimated efficiency (% of production to input)	36	37	36	36	36	35

Statistics on electricity

Mozambique

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	17641	17140	18981	19026	18863	19559
Combustible fuels	3581	3239	4021	3253	3326	3313
Hydro	14058	13899	14930	15703	15468	16173
Nuclear	..	..	..	..	..	..
Other	2	1	31	70	69	72
Main activity	17394	16927	18759	18816	18653	19334
Combustible fuels	3335	3027	3799	3043	3116	3089
Hydro	14058	13899	14930	15703	15468	16173
Nuclear	..	..	..	..	..	..
Other	2	1	31	70	69	72
Own use in electricity, CHP and heat plants	246	234	247	264	225	233
Net production	17394	16906	18734	18762	18638	19326
Imports	8289	8327	8276	8100	8133	8259
Exports	10010	9738	10771	11511	11189	11450
Losses	2603	2663	2768	2768	2930	3380
Consumption	12346	12437	12952	12433	12578	12635
Energy industries own use	103	93	116	94	94	97
By industry and construction	10307	10416	10557	10376	10381	10210
By transport	..	..	..	..	..	..
By households and other cons.	1936	1928	2279	1964	2103	2328
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2654	2719	2789	2789	2776	2789
Combustible fuels	*435	*460	*490	*490	*490	*490
Hydro	2204	2204	2204	2204	2191	2191
Nuclear	..	..	..	..	..	..
Other	15	55	95	95	*95	108
Main activity	2604	2669	2739	2739	2726	2739
Combustible fuels	*385	*410	*440	*440	*440	*440
Hydro	2204	2204	2204	2204	2191	2191
Nuclear	..	..	..	..	..	..
Other	15	55	95	95	*95	108
Combustible fuel input	Terajoules					
Gas-diesel oil	52	47	44	52	63	355
Fuel oil	5671	2267	1250	1170	1432	1072
Natural gas	25469	25710	29940	27556	27330	31181
Bagasse	3201	3130	2944	2412	2603	2858
Total input	34392	31154	34178	31190	31428	35466
Total production	12892	11661	14476	11710	11973	11928
Estimated efficiency (% of production to input)	37	37	42	38	38	34

Statistics on electricity

Myanmar

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	20055	22883	23778	23643	22075	21539
Combustible fuels	8864	11641	14328	15194	12350	12275
Hydro	11191	11228	9369	8370	9590	9070
Nuclear	..	..	..	..	..	..
Other	..	14	81	79	135	194
Main activity	13557	10487	9363	7222	7216	6621
Combustible fuels	3116	2862	3399	1951	971	1202
Hydro	10441	7625	5964	5271	6245	5418
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	1	1
Own use in electricity, CHP and heat plants	136	184	205	174	143	182
Net production	19919	22699	23573	23469	21931	21357
Imports	116	152	122	129	140	203
Exports	1393	1527	1281	1637	852	1678
Losses	2803	3405	3734	4273	4658	4232
Consumption	15839	17919	18681	19196	17273	17125
Energy industries own use	..	..	..	..	..	..
By industry and construction	2773	4581	5553	4718	5087	4871
By transport	..	..	..	..	..	..
By households and other cons.	13066	13338	13128	14477	12186	12254
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	5642	5838	7129	6830	7174	7291
Combustible fuels	2387	2536	3827	3527	3841	3848
Hydro	3255	3262	3262	3262	3262	3262
Nuclear	..	..	..	..	..	..
Other	..	40	40	41	71	181
Main activity	4288	3144	3410	3234	3236	3236
Combustible fuels	1205	993	1259	1083	1084	1084
Hydro	3083	2151	2151	2151	2151	2151
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	1	1
Combustible fuel input	Terajoules					
Hard Coal	*6373	21934	32145	*21097	19422	19724
Crude oil	..	..	..	..	169	..
Gas-diesel oil	4597	860	1247	1591	172	86
Natural gas	126111	126322	121094	*146908	*112650	131698
Total input	137081	149116	154486	*169596	*132413	151508
Total production	31912	41908	51581	54697	44458	44188
Estimated efficiency (% of production to input)	23	28	33	32	34	29

Statistics on electricity

Namibia

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1781	1437	1402	2012	1467	1180
Combustible fuels	66	21	52	65	41	20
Hydro	1593	1144	954	1505	968	781
Nuclear	..	..	..	..	..	..
Other	122	272	396	442	458	379
Main activity	1781	1437	1402	2012	1467	1180
Combustible fuels	66	21	52	65	41	20
Hydro	1593	1144	954	1505	968	781
Nuclear	..	..	..	..	..	..
Other	122	272	396	442	458	379
Own use in electricity, CHP and heat plants	159	145	123	133	116	0
Net production	1622	1292	1279	1879	1351	1180
Imports	2911	3337	3161	2785	2825	2917
Exports	100	114	119	593	382	169
Losses	*372	*338	*287	*310	*271	*522
Consumption	*4057	*4171	*4040	*3759	*3521	3235
Energy industries own use	..	..	..	..	..	..
By industry and construction	603	586	537	397	135	1356
By transport	..	..	..	..	..	..
By households and other cons.	*3454	*3585	*3503	*3362	*3386	1879
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	565	582	600	616	628	643
Combustible fuels	143	143	113	113	120	144
Hydro	347	347	347	347	351	347
Nuclear	..	..	..	..	..	..
Other	75	93	140	157	157	152
Main activity	565	582	600	616	628	643
Combustible fuels	143	143	113	113	120	144
Hydro	347	347	347	347	351	347
Nuclear	..	..	..	..	..	..
Other	75	93	140	157	157	152
Combustible fuel input	Terajoules					
Hard Coal	950	302	634	806	576	325
Gas-diesel oil	5	2	104	123	14	27
Total input	955	304	737	929	590	352
Total production	238	76	187	234	148	72
Estimated efficiency (% of production to input)	25	25	25	25	25	20

Statistics on electricity

Nauru

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	35	36	36	38	*42	*44
Combustible fuels	34	35	35	36	*39	*41
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	1	2	*3	*3
Main activity	35	36	36	38	*42	*44
Combustible fuels	34	35	35	36	*39	*41
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	1	2	*3	*3
Own use in electricity, CHP and heat plants	0	1	1	2	*2	*2
Net production	34	36	35	36	*40	*42
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	9	8	4	*5	*4	*5
Consumption	26	28	30	30	*36	*37
Energy industries own use	..	..	..	..	..	..
By industry and construction	1	1	2	1	*1	*2
By transport	..	..	..	..	..	..
By households and other cons.	25	27	28	29	*35	*35
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*8	*14	*14	18	18	*19
Combustible fuels	*7	*13	*13	16	16	*16
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	1	2	2	*3
Main activity	*8	*14	*14	18	18	*19
Combustible fuels	*7	*13	*13	16	16	*16
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	1	2	2	*3
Combustible fuel input	Terajoules					
Gas-diesel oil	360	344	343	344	355	*396
Total input	360	344	343	344	355	*396
Total production	121	126	126	129	*141	*146
Estimated efficiency (% of production to input)	34	37	37	37	40	37

Statistics on electricity

Nepal

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	4566	4829	6134	6189	9668	10583
Combustible fuels	0	0	0	0	0	0
Hydro	4488	4754	6061	6092	9534	10536
Nuclear	..	..	..	..	..	..
Other	78	75	73	96	134	47
Main activity	4401	4666	5942	5966	9441	10583
Combustible fuels	0	0	0	0	0	0
Hydro	4398	4663	5939	5949	9388	10536
Nuclear	..	..	..	..	..	..
Other	3	3	3	17	53	47
Own use in electricity, CHP and heat plants	54	56	30	34	0	38
Net production	4512	4773	6104	6155	9668	10545
Imports	2582	2813	1729	2806	1543	1833
Exports	3	35	107	38	494	1346
Losses	1442	1149	1186	1504	1709	1693
Consumption	5646	6396	6536	7415	8935	9100
Energy industries own use	..	..	..	..	..	..
By industry and construction	2010	2422	2301	2816	3443	*3576
By transport	5	3	3	3	4	4
By households and other cons.	3631	3971	4232	4596	5488	5520
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*1181	1229	1238	1395	2207	2699
Combustible fuels	53	53	53	53	56	59
Hydro	*1081	1129	1129	1278	2082	2538
Nuclear	..	..	..	..	..	..
Other	*47	*47	*55	*64	69	101
Main activity	*1041	1065	1074	1187	1693	2153
Combustible fuels	53	53	53	53	53	53
Hydro	*981	1005	1005	1110	1604	2060
Nuclear	..	..	..	..	..	..
Other	*7	*7	*15	*24	36	39
Combustible fuel input	Terajoules					
Fuel oil	1	1	1	0	0	0
Total input	1	1	1	0	0	0
Total production	0	0	0	0	0	0
Estimated efficiency (% of production to input)	40	40	38	37	37	0

Statistics on electricity

Netherlands (Kingd. of the)

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	117168	114380	121411	123279	122093	121810
Combustible fuels	99395	95965	99973	94787	88305	78513
Hydro	61	72	74	46	88	50
Nuclear	3402	3515	3910	4087	3828	4156
Other	14309	14828	17455	24359	29872	39091
Main activity	91952	87411	92352	88753	84878	83705
Combustible fuels	77450	73595	77022	69066	61866	56005
Hydro	61	72	74	46	88	50
Nuclear	3402	3515	3910	4087	3828	4156
Other	11038	10228	11346	15554	19095	23494
Own use in electricity, CHP and heat plants	3712	3539	3546	3441	3807	3800
Net production	113456	110841	117865	119838	118286	118010
Imports	22458	26755	20403	19773	20885	18544
Exports	18952	18785	19548	22433	20632	22811
Losses	5414	5334	5059	4744	4797	4869
Consumption	111555	113710	113371	111291	111942	108938
Energy industries own use	5737	5847	5731	4940	5186	5152
By industry and construction	35818	36354	35744	35723	35359	34234
By transport	1997	2164	2349	2300	2697	3344
By households and other cons.	68003	69346	69548	68328	68700	66207
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	32898	34822	36853	42988	47851	53942
Combustible fuels	24829	24865	24185	24274	24397	24489
Hydro	37	37	37	37	38	38
Nuclear	512	512	512	512	512	512
Other	7520	9408	12119	18165	22904	28904
Main activity	23588	24123	23891	26538	28472	30628
Combustible fuels	18860	18858	18167	17770	17772	17756
Hydro	37	37	37	37	38	38
Nuclear	512	512	512	512	512	512
Other	4180	4717	5175	8219	10150	12322
Combustible fuel input	Terajoules					
Hard Coal	267969	230853	155720	69325	126223	128339
Biogas	5804	5459	5386	5046	4985	5093
Refinery gas	11631	16261	17394	14452	14363	15857
Natural gas	447115	435545	512860	514786	403977	345919
Coke-oven gas	2084	2001	2073	1695	1632	1903
Blast furnace gas	23870	22803	21742	21104	22730	21649
Fuelwood	*15390	*11563	*24727	*53148	*70588	*58074
Vegetal waste	*6229	*9622	*9385	*7349	*8285	*11628
Municipal waste	73558	70915	69139	68623	72441	66528
Industrial waste	1224	1387	1459	1209	1190	1083
Others	488	486	774	362	635	510
Total input	855363	806895	820659	757100	727050	656582
Total production	357823	345474	359901	341235	317898	282647
Estimated efficiency (% of production to input)	42	43	44	45	44	43

Statistics on electricity

New Caledonia

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	3228	3486	3334	3233	2910	3148
Combustible fuels	2794	3076	2876	2728	2256	2334
Hydro	361	317	285	305	425	539
Nuclear	..	..	..	..	..	..
Other	73	92	173	199	229	276
Main activity	1442	1409	1325	1290	1332	1419
Combustible fuels	1007	1009	886	815	731	677
Hydro	361	317	285	305	425	539
Nuclear	..	..	..	..	..	..
Other	73	84	154	170	176	204
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	3228	3486	3334	3233	2910	3148
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	68	65	61	67	66	56
Consumption	3160	3421	3273	3166	2844	3092
Energy industries own use	..	..	..	..	..	..
By industry and construction	2488	2744	2604	2506	2177	2399
By transport	..	..	..	..	..	..
By households and other cons.	672	677	669	660	667	694
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	959	974	1022	1047	1090	1170
Combustible fuels	815	809	809	809	808	848
Hydro	78	78	78	78	81	81
Nuclear	..	..	..	..	..	..
Other	66	87	135	160	201	241
Main activity	382	392	434	446	471	500
Combustible fuels	243	237	237	237	236	236
Hydro	78	78	78	78	81	81
Nuclear	..	..	..	..	..	..
Other	61	77	119	131	154	183
Combustible fuel input	Terajoules					
Hard Coal	19174	19181	21250	19185	15734	18500
Gas-diesel oil	2204	3675	1790	1600	2787	3190
Fuel oil	14584	15754	14445	13096	10296	10673
Other kerosene	207	401	31	8	249	171
Other liquid biofuels	2	5	4	4	4	3
Total input	36171	39016	37521	33892	29069	32536
Total production	10058	11075	10352	9822	8121	8402
Estimated efficiency (% of production to input)	28	28	28	29	28	26

Statistics on electricity

New Zealand

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	44641	44695	45148	44531	44611	44691
Combustible fuels	9004	8029	8859	9454	9035	6714
Hydro	25173	26252	25596	24266	24232	26274
Nuclear	..	..	..	..	..	..
Other	10464	10414	10693	10812	11343	11703
Main activity	43083	43183	43511	42969	42921	43039
Combustible fuels	7648	6731	7462	8158	7657	5442
Hydro	25169	26248	25592	24262	24228	26270
Nuclear	..	..	..	..	..	..
Other	10266	10204	10457	10549	11035	11328
Own use in electricity, CHP and heat plants	1532	1442	1558	1349	1341	1215
Net production	43109	43254	43590	43182	43270	43476
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	2944	2942	3001	2956	2901	3275
Consumption	39933	39968	40319	39441	39568	39038
Energy industries own use	751	695	724	663	676	481
By industry and construction	13865	13927	14105	13373	13082	13095
By transport	91	94	110	100	98	193
By households and other cons.	25226	25252	25381	25305	25712	25269
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	9436	9483	9515	9683	9953	10112
Combustible fuels	2239	2242	2242	2346	2346	2112
Hydro	5435	5435	5443	5443	5443	5680
Nuclear	..	..	..	..	..	..
Other	1762	1806	1830	1894	2164	2320
Main activity	9083	9110	9118	9262	9485	9576
Combustible fuels	1984	1987	1987	2097	2097	1863
Hydro	5432	5432	5440	5440	5440	5677
Nuclear	..	..	..	..	..	..
Other	1667	1691	1691	1725	1948	2036
Combustible fuel input	Terajoules					
Brown Coal	5591	9124	16623	18179	23815	7260
Biogas	3054	3021	3076	3130	3066	3074
Gas-diesel oil	62	126	41	1434	307	87
Natural gas	59596	49204	49591	53811	42909	41941
Coke-oven gas	1966	1941	2626	2454	2595	2326
Blast furnace gas	5665	5314	5492	4888	5593	5083
Fuelwood	4367	4536	3928	3943	3987	4881
Black liquor	13529	13395	13394	13310	12992	..
Total input	93830	86661	94771	101150	95265	64653
Total production	32416	28904	31891	34034	32527	24170
Estimated efficiency (% of production to input)	35	33	34	34	34	37

Statistics on electricity

Nicaragua

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	4525	4636	4576	3791	4213	4369
Combustible fuels	2657	2599	2815	1873	2197	2444
Hydro	468	411	227	574	599	650
Nuclear	..	..	..	..	..	..
Other	1400	1626	1534	1343	1417	1275
Main activity	3814	3901	3686	3013	3271	3427
Combustible fuels	1946	1864	1927	1098	1259	1506
Hydro	468	411	227	574	599	650
Nuclear	..	..	..	..	..	..
Other	1400	1626	1533	1340	1414	1272
Own use in electricity, CHP and heat plants	407	403	479	418	471	525
Net production	4118	4233	4096	3373	3742	3844
Imports	327	201	434	1071	1005	1062
Exports	1	0	0	0	0	..
Losses	996	978	1089	1046	1110	839
Consumption	3451	3594	3769	3653	3879	3903
Energy industries own use	..	..	..	..	..	..
By industry and construction	1147	1069	1092	1042	1194	1195
By transport	..	..	..	..	..	..
By households and other cons.	2304	2525	2677	2611	2684	2709
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1482	1482	1620	1620	1615	1628
Combustible fuels	985	985	1107	1107	1101	1101
Hydro	142	142	157	157	159	159
Nuclear	..	..	..	..	..	..
Other	355	355	356	356	356	368
Main activity	1305	1305	1401	1401	1396	1409
Combustible fuels	809	809	888	888	883	883
Hydro	142	142	157	157	158	158
Nuclear	..	..	..	..	..	..
Other	355	355	356	356	356	368
Combustible fuel input	Terajoules					
Biogas	..	..	75	71	92	88
Gas-diesel oil	602	516	509	328	495	1718
Fuel oil	17210	16483	17392	10454	11607	11643
Bagasse	*16153	*15717	*16287	*14177	*15022	*20291
Vegetal waste	0	*348	*272	*306	381	*515
Total input	33965	33064	34535	*25336	*27597	*34255
Total production	9565	9356	10133	6745	7910	8799
Estimated efficiency (% of production to input)	28	28	29	27	29	26

Statistics on electricity

Niger

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	566	480	626	635	*658	*669
Combustible fuels	552	447	593	610	*612	*644
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	15	33	33	24	*46	24
Main activity	541	437	535	477	*562	*552
Combustible fuels	541	437	535	465	*550	*541
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	12	12	11
Own use in electricity, CHP and heat plants	32	38	*62	59	*48	*42
Net production	534	442	564	575	*610	*627
Imports	845	1253	1057	1108	1122	1164
Exports	0	0	..	..	..	..
Losses	*218	*238	313	330	*314	*325
Consumption	*1162	*1457	1307	1410	1417	1465
Energy industries own use	*80	*78	*68	113	*49	*69
By industry and construction	*285	*387	219	207	194	163
By transport	..	..	..	..	..	..
By households and other cons.	*797	*992	1020	1090	1174	1233
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	290	311	*324	*324	*325	*347
Combustible fuels	281	291	*297	*297	*297	*297
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	9	20	27	27	*27	50
Main activity	228	238	*244	*244	*244	*244
Combustible fuels	228	238	*244	*244	*244	*244
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Hard Coal	3552	3414	3214	3784	877	3382
Gas-diesel oil	*2365	*2064	2322	2468	*2580	*1720
Fuel oil	..	..	687	*545	*638	*485
Liquefied petroleum gas	*520	*572	907	*992	534	*605
Other oil products	764	764	..	..	..	..
Natural gas	..	..	1444	1586	*2365	*1975
Total input	7202	6814	8573	9376	*6995	*8167
Total production	1986	1610	2136	2197	*2203	*2320
Estimated efficiency (% of production to input)	28	24	25	23	31	28

Statistics on electricity

Nigeria

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	32221	33384	33110	35059	36038	37916
Combustible fuels	24443	25657	24633	27324	28046	28611
Hydro	7747	7695	8433	7690	7943	9204
Nuclear	..	..	..	..	..	..
Other	31	31	44	45	49	101
Main activity	26691	27589	27511	28886	29698	16297
Combustible fuels	19102	20051	19250	21353	21917	7280
Hydro	7589	7538	8261	7533	7781	9017
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	926	959	952	1007	1033	1022
Net production	31295	32424	32159	34052	35005	36894
Imports	..	..	..	..	..	..
Exports	2462	3003	2327	2433	2433	2317
Losses	4833	5007	4966	5258	5406	5340
Consumption	26167	26798	27404	27866	28526	32410
Energy industries own use	236	229	242	239	191	165
By industry and construction	3817	3897	3927	3819	3946	7269
By transport	..	..	..	..	..	..
By households and other cons.	22114	22673	23235	23809	24389	24976
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*12275	*12321	11730	12108	13370	*13417
Combustible fuels	*10142	*10142	9539	9862	11103	*11121
Hydro	*2111	2151	2151	2191	2191	2191
Nuclear	..	..	..	..	..	..
Other	22	28	40	56	76	105
Main activity	*9033	*9073	8470	8833	9922	*9922
Combustible fuels	*6962	*6962	6359	6682	7771	*7771
Hydro	*2071	2111	2111	2151	2151	2151
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Natural gas	244700	268629	254826	282666	290131	296362
Total input	244700	268629	254826	282666	290131	296362
Total production	87996	92366	88679	98368	100965	103000
Estimated efficiency (% of production to input)	36	34	35	35	35	35

Statistics on electricity

Niue

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*3	*4	*4	*4	*4	*4
Combustible fuels	*3	*3	*3	*3	*3	*4
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Main activity	*3	*4	*4	*4	*4	*4
Combustible fuels	*3	*3	*3	*3	*3	*4
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	*3	*4	*4	*4	*4	*4
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	0	0	*1	0	0	0
Consumption	*3	*3	*3	*3	*3	*4
Energy industries own use	..	..	..	..	..	..
By industry and construction	*1	*1	*1	*1	*1	*1
By transport	..	..	..	..	..	..
By households and other cons.	*2	*3	*3	*3	*3	*3
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*2	*2	*3	*3	*3	*3
Combustible fuels	*2	*2	*2	*2	*2	*2
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	1	*1	*1	*1
Main activity	*2	*2	*3	*3	*3	*3
Combustible fuels	*2	*2	*2	*2	*2	*2
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	1	*1	*1	*1
Combustible fuel input	Terajoules					
Gas-diesel oil	*33	*34	*34	*34	*34	*36
Total input	*33	*34	*34	*34	*34	*36
Total production	*12	*12	*12	*12	*12	*13
Estimated efficiency (% of production to input)	36	36	36	36	36	35

Statistics on electricity

North Macedonia

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	5600	5607	5870	5347	5532	5933
Combustible fuels	4356	3696	4581	3929	3926	4389
Hydro	1110	1791	1164	1277	1452	1345
Nuclear	..	..	..	..	..	..
Other	134	120	125	141	154	200
Main activity	5600	5607	5870	5347	5532	5933
Combustible fuels	4356	3696	4581	3929	3926	4389
Hydro	1110	1791	1164	1277	1452	1345
Nuclear	..	..	..	..	..	..
Other	134	120	125	141	154	200
Own use in electricity, CHP and heat plants	387	324	369	314	304	383
Net production	5213	5283	5501	5033	5228	5551
Imports	2294	2297	6882	6734	7407	7074
Exports	311	377	5054	4408	4930	5662
Losses	1004	995	979	1027	1041	972
Consumption	6192	6208	6350	6333	6665	5991
Energy industries own use	90	102	109	108	100	101
By industry and construction	1472	1560	1620	1642	1715	1412
By transport	14	12	14	13	14	12
By households and other cons.	4616	4534	4606	4570	4835	4466
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1836	1839	1851	1868	2093	2196
Combustible fuels	1111	1111	1112	1112	1322	1322
Hydro	671	674	678	687	689	693
Nuclear	..	..	..	..	..	..
Other	54	54	61	69	82	181
Main activity	1836	1839	1851	1868	2093	2196
Combustible fuels	1111	1111	1112	1112	1322	1322
Hydro	671	674	678	687	689	693
Nuclear	..	..	..	..	..	..
Other	54	54	61	69	82	181
Combustible fuel input	Terajoules					
Brown Coal	38362	32774	39673	35350	25034	34740
Biogas	742	778	793	825	775	740
Fuel oil	986	548	690	1084	1544	6128
Natural gas	6501	6558	8034	9668	12928	8342
Total input	46591	40658	49190	46926	40280	49950
Total production	15680	13304	16492	14144	14132	15799
Estimated efficiency (% of production to input)	34	33	34	30	35	32

Statistics on electricity

Northern Mariana Islands

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*380	*390	*392	*293	*305	*308
Combustible fuels	*380	*390	*392	*290	*300	*303
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	*3	*5	*5
Main activity	*380	*390	*392	*293	*305	*308
Combustible fuels	*380	*390	*392	*290	*300	*303
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	*3	*5	*5
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	*380	*390	*392	*293	*305	*308
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*85	*86	*86	*63	*66	*63
Consumption	*295	*304	*306	*230	*239	*245
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*295	*304	*306	*230	*239	*245
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*63	*63	*63	*65	68	68
Combustible fuels	*63	*63	*63	*63	63	63
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	*2	*5	5
Main activity	*63	*63	*63	*65	68	68
Combustible fuels	*63	*63	*63	*63	63	63
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	*2	*5	5
Combustible fuel input	Terajoules					
Gas-diesel oil	*3800	*3900	*3920	*2900	*3000	*3030
Total input	*3800	*3900	*3920	*2900	*3000	*3030
Total production	*1368	*1404	*1411	*1044	*1080	*1091
Estimated efficiency (% of production to input)	36	36	36	36	36	36

Statistics on electricity

Norway

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	149480	147097	134907	155196	157922	146731
Combustible fuels	3190	3169	3011	2441	1292	1918
Hydro	143112	139714	126030	142471	144368	129366
Nuclear	..	..	..	..	..	..
Other	3178	4214	5866	10284	12262	15447
Main activity	146635	144175	132185	153018	156739	144769
Combustible fuels	669	584	631	635	600	593
Hydro	143112	139714	126030	142471	144368	129366
Nuclear	..	..	..	..	..	..
Other	2854	3877	5525	9913	11770	14810
Own use in electricity, CHP and heat plants	717	751	831	946	719	654
Net production	148763	146346	134076	154249	157203	146077
Imports	6111	8340	12353	4496	8235	13271
Exports	21276	18489	12309	24968	25819	25792
Losses	7629	7564	6996	6351	7022	6658
Consumption	124956	127686	126269	126497	131587	126182
Energy industries own use	9904	10620	10062	10307	9361	11127
By industry and construction	46163	46757	46320	46841	49093	47995
By transport	1049	1207	1424	1767	2228	2914
By households and other cons.	67841	69102	68464	67582	70905	64146
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	34228	35416	36940	38880	40269	40479
Combustible fuels	1074	1073	1074	959	889	739
Hydro	31912	32530	32797	33732	34075	34269
Nuclear	..	..	..	..	..	..
Other	1242	1813	3069	4189	5306	5471
Main activity	33689	34796	36268	38199	39652	39701
Combustible fuels	535	521	522	402	439	289
Hydro	31912	32530	32797	33732	34075	34269
Nuclear	..	..	..	..	..	..
Other	1242	1745	2949	4065	5138	5143
Combustible fuel input	Terajoules					
Hard Coal	815	865	853	819	762	837
Biogas	159	130	134	57	17	12
Gas-diesel oil	235	232	171	174	150	77
Liquefied petroleum gas	0	12	12	10	39	22
Refinery gas	5544	4507	3752	1639	5206	2337
Natural gas	14827	15198	13988	10588	4067	7767
Blast furnace gas	1255	1247	1251	867	1019	1194
Fuelwood	1536	*1550	*1847	*1750	*2383	*2452
Municipal waste	8576	8861	9158	8867	8049	8117
Other liquid biofuels	14	8	7	4	32	21
Others	..	..	..	..	1	3
Total input	32960	32609	31173	24775	21725	22839
Total production	11484	11410	10840	8787	4651	6903
Estimated efficiency (% of production to input)	35	35	35	35	21	30

Statistics on electricity

Oman

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	36130	37718	37550	38449	41122	41374
Combustible fuels	36114	37702	37534	38322	40992	41239
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	16	16	17	128	*130	*135
Main activity	36130	37718	37550	38449	41122	41374
Combustible fuels	36114	37702	37534	38322	40992	41239
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	16	16	17	128	*130	*135
Own use in electricity, CHP and heat plants	459	497	33	1590	1608	1011
Net production	35670	37221	37517	36860	39514	40363
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	3321	3674	3721	3742	3853	3835
Consumption	32349	33547	33796	33169	35661	36527
Energy industries own use	..	..	..	..	..	..
By industry and construction	5021	5169	5092	4975	6282	6094
By transport	..	..	..	..	..	..
By households and other cons.	27328	28379	28704	28194	29379	30433
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	8228	8450	11567	11960	11920	11571
Combustible fuels	8220	8442	11508	11798	11733	10867
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	8	8	59	162	187	704
Main activity	8228	8450	11567	11960	11920	11571
Combustible fuels	8220	8442	11508	11798	11733	10867
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	8	8	59	162	187	704
Combustible fuel input	Terajoules					
Gas-diesel oil	10606	11542	12308	12308	*12900	*13115
Natural gas	314281	316552	286348	277564	300178	295890
Total input	324887	328094	298657	289872	313078	309005
Total production	130011	135728	135121	137957	147572	148460
Estimated efficiency (% of production to input)	40	41	45	48	47	48

Statistics on electricity

Pakistan

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	134982	136461	134818	144049	144435	127875
Combustible fuels	94566	90588	82533	90212	86550	63567
Hydro	27729	32789	38802	38936	35069	35273
Nuclear	9849	9134	9861	11090	17045	23857
Other	2838	3950	3622	3811	5771	5178
Main activity	131999	133481	132384	142511	141369	126948
Combustible fuels	91583	87608	80099	88674	83484	62640
Hydro	27729	32789	38802	38936	35069	35273
Nuclear	9849	9134	9861	11090	17045	23857
Other	2838	3950	3622	3811	5771	5178
Own use in electricity, CHP and heat plants	11542	5790	4253	6889	5714	3803
Net production	123440	130671	130565	137160	138721	124072
Imports	433	297	499	514	498	504
Exports	..	..	..	..	..	..
Losses	20615	16765	17389	22986	*20521	18631
Consumption	103273	109459	113546	114687	118698	106340
Energy industries own use	..	..	..	..	..	..
By industry and construction	27398	28760	29834	28545	29001	27178
By transport	..	..	..	..	..	..
By households and other cons.	75875	80699	83712	86141	89698	79162
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	34972	37847	39885	40606	42166	40707
Combustible fuels	24794	24913	26800	27127	26316	24784
Hydro	7270	9757	9858	9912	10733	10756
Nuclear	1430	1430	1430	1770	*2870	*2870
Other	1478	1747	1797	1797	2247	2297
Main activity	34012	36830	38861	39629	41438	40075
Combustible fuels	23834	23896	25776	26150	25588	24152
Hydro	7270	9757	9858	9912	10733	10756
Nuclear	1430	1430	1430	1770	*2870	*2870
Other	1478	1747	1797	1797	2247	2297
Combustible fuel input	Terajoules					
Hard Coal	115611	153818	280729	237867	333149	351257
Gas-diesel oil	7955	1118	1118	4231	10578	10304
Fuel oil	*249591	*111948	*113039	*93332	*149682	122906
Natural gas	*548796	*544249	*457492	*436277	*432333	311148
Bagasse	*24480	*23208	*13464	*17064	*19776	*20155
Total input	*946433	*834341	*865842	*788771	*945518	815770
Total production	340438	326117	297119	324763	311580	228841
Estimated efficiency (% of production to input)	36	39	34	41	33	28

Statistics on electricity

Palau

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*98	*96	95	*96	97	*97
Combustible fuels	*94	*92	91	*92	93	*93
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*4	*4	*4	*4	4	*4
Main activity	*90	*86	83	*84	85	*85
Combustible fuels	*86	*82	79	*80	81	*81
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*4	*4	*4	*4	4	*4
Own use in electricity, CHP and heat plants	*5	*5	*5	*5	*5	*5
Net production	*93	*91	90	*91	92	*92
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*9	*5	*5	*5	*5	*5
Consumption	*84	*86	*85	*86	*87	*87
Energy industries own use	..	..	..	..	..	..
By industry and construction	*6	*6	*6	*6	*6	*6
By transport	..	..	..	..	..	..
By households and other cons.	*78	*80	*79	*80	*81	*81
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*40	*40	*41	*41	*41	*41
Combustible fuels	*39	*39	*39	*39	*39	*39
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	2	3	*3	*3	*3
Main activity	*38	*38	*39	*39	*39	*39
Combustible fuels	*37	*37	*37	*37	*37	*37
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	2	3	*3	*3	*3
Combustible fuel input	Terajoules					
Gas-diesel oil	*976	*961	*939	*946	*968	*989
Total input	*976	*961	*939	*946	*968	*989
Total production	*338	*330	326	*331	335	*335
Estimated efficiency (% of production to input)	35	34	35	35	35	34

Statistics on electricity

Panama

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	11183	11625	13667	13394	14289	14166
Combustible fuels	3148	2716	7423	4963	4522	4743
Hydro	7388	8065	5196	7502	8625	8116
Nuclear	..	..	..	..	..	..
Other	647	844	1048	930	1142	1306
Main activity	11019	11189	11642	10936	11670	11516
Combustible fuels	3118	2513	5527	2685	2213	2396
Hydro	7254	7855	5096	7349	8342	7838
Nuclear	..	..	..	..	..	..
Other	647	821	1019	901	1115	1282
Own use in electricity, CHP and heat plants	338	580	1031	847	630	98
Net production	10845	11046	12635	12547	13660	14068
Imports	7	13	77	117	63	235
Exports	318	326	427	567	502	392
Losses	1448	1404	1199	1165	1152	879
Consumption	9104	9390	12352	12903	14409	14880
Energy industries own use	9	8	8	7	7	6
By industry and construction	651	660	1885	2293	2802	2589
By transport	41	41	54	70	80	82
By households and other cons.	8403	8681	10406	10533	11521	12204
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	3484	4179	4140	4165	4108	4207
Combustible fuels	1292	1941	1851	1860	1575	1603
Hydro	1780	1779	1821	1822	1822	1821
Nuclear	..	..	..	..	..	..
Other	413	459	468	483	711	783
Main activity	3366	3795	3756	3771	3680	3740
Combustible fuels	1233	1617	1527	1527	1208	1207
Hydro	1720	1719	1761	1761	1761	1761
Nuclear	..	..	..	..	..	..
Other	413	459	468	483	711	773
Combustible fuel input	Terajoules					
Hard Coal	2252	4863	23137	24894	23906	23896
Gas-diesel oil	2709	877	925	464	1049	2838
Fuel oil	12847	6343	7191	1656	2222	4808
Natural gas	..	10878	33835	18243	21785	10298
Bagasse	2168	3402	2573	2785	2682	2699
Municipal waste	*147	*270	*302	*447	*331	*326
Total input	20123	26633	67963	48491	51975	44864
Total production	11334	9779	26721	17865	16280	17076
Estimated efficiency (% of production to input)	56	37	39	37	31	38

Statistics on electricity

Papua New Guinea

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*4073	*4037	*4299	*4169	*4446	*4447
Combustible fuels	*2896	*3079	*3104	*3096	*3344	*3515
Hydro	1018	830	1095	972	1000	*830
Nuclear	..	..	..	..	..	..
Other	159	128	100	101	101	102
Main activity	1291	1376	1642	1434	1544	*1442
Combustible fuels	622	753	752	763	844	*815
Hydro	667	621	886	667	694	*621
Nuclear	..	..	..	..	..	..
Other	2	2	4	5	5	6
Own use in electricity, CHP and heat plants	*1	*1	*1	0	0	0
Net production	*4072	*4036	*4298	*4168	*4445	*4446
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	372	384	372	361	361	*361
Consumption	3700	3652	3930	3944	3972	*3986
Energy industries own use	..	..	..	..	..	..
By industry and construction	2778	2778	3056	2778	2778	*2778
By transport	..	..	..	..	..	..
By households and other cons.	*922	*874	*875	1167	1194	*1208
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*971	*1102	*1265	1058	1058	1061
Combustible fuels	*656	*750	*919	748	748	748
Hydro	*258	295	295	258	258	261
Nuclear	..	..	..	..	..	..
Other	57	57	51	51	51	52
Main activity	*369	*501	*670	565	565	568
Combustible fuels	*206	*300	*469	382	382	382
Hydro	*162	200	200	181	181	184
Nuclear	..	..	..	..	..	..
Other	1	1	1	*1	*1	*2
Combustible fuel input	Terajoules					
Biogas	*290	*300	*270	*275	*285	*285
Gas-diesel oil	4194	6824	6155	6500	6400	*6600
Fuel oil	20179	27047	24535	20000	21000	*21071
Natural gas	9676	7443	6885	11222	*11333	*11504
Bagasse	*62	*62	*62	*62	*62	*62
Total input	34402	41676	37906	38059	39080	*39522
Total production	*10427	*11083	*11173	*11145	*12039	*12654
Estimated efficiency (% of production to input)	30	27	29	29	31	32

Statistics on electricity

Paraguay

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	59685	59212	49448	46373	40576	43881
Combustible fuels	2	2	2	2	2	1
Hydro	59684	59211	49446	46371	40574	43880
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	59685	59212	49448	46373	40576	43881
Combustible fuels	2	2	2	2	2	1
Hydro	59684	59211	49446	46371	40574	43880
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	495	483	390	422	280	300
Net production	59190	58730	49058	45951	40297	43581
Imports	..	..	..	..	..	..
Exports	43635	42205	31748	28005	21719	23995
Losses	4000	4021	4470	4227	4871	5193
Consumption	11555	12504	12840	13719	13706	14433
Energy industries own use	..	..	..	..	..	..
By industry and construction	2348	2436	2391	2379	2451	2461
By transport	..	..	..	..	..	..
By households and other cons.	9207	10068	10449	11340	11255	11972
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	8761	8761	8761	8761	8761	8761
Combustible fuels	1	1	1	1	1	1
Hydro	8760	8760	8760	8760	8760	8760
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	8761	8761	8761	8761	8761	8761
Combustible fuels	1	1	1	1	1	1
Hydro	8760	8760	8760	8760	8760	8760
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Gas-diesel oil	20	21	24	22	22	15
Total input	20	21	24	22	22	15
Total production	5	6	7	7	7	5
Estimated efficiency (% of production to input)	27	27	31	31	33	31

Statistics on electricity

Peru

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	52743	54982	57038	52803	56833	59772
Combustible fuels	22265	21946	23088	19624	22261	27216
Hydro	29075	30737	31462	30510	31890	29744
Nuclear	..	..	..	..	..	..
Other	1403	2299	2488	2670	2683	2812
Main activity	50345	52368	54464	50673	54485	57814
Combustible fuels	20591	20125	21261	18169	20593	25897
Hydro	28393	29989	30769	29895	31268	29164
Nuclear	..	..	..	..	..	..
Other	1361	2253	2434	2608	2623	2753
Own use in electricity, CHP and heat plants	752	743	856	780	661	948
Net production	51991	54239	56182	52024	56172	58824
Imports	17	21	60	37	43	32
Exports	0	..	..	..	..	..
Losses	5543	5969	6411	6414	6634	6637
Consumption	46465	48292	49831	45647	49490	52146
Energy industries own use	..	..	..	..	..	..
By industry and construction	26716	27832	28695	25596	27751	30658
By transport	53	60	75	77	83	1064
By households and other cons.	19696	20401	21061	19974	21656	20423
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	14775	15214	15162	15229	15382	15805
Combustible fuels	9005	9154	9062	9072	9131	9420
Hydro	5246	5363	5397	5417	5514	5514
Nuclear	..	..	..	..	..	..
Other	524	697	703	740	738	871
Main activity	13239	13651	13650	13790	13861	14248
Combustible fuels	7639	7762	7723	7807	7782	8039
Hydro	5116	5232	5266	5286	5384	5384
Nuclear	..	..	..	..	..	..
Other	484	657	661	698	696	826
Combustible fuel input	Terajoules					
Hard Coal	9015	4735	5662	5075	4623	4121
Biogas	391	484	576	504	572	667
Gas-diesel oil	15232	7825	6861	1977	1515	4351
Fuel oil	5828	5821	5824	3406	3434	3343
Natural gas	165558	168231	177697	150433	197874	231489
Bagasse	17599	13390	14490	14183	*14209	15207
Biodiesel	762	391	343	96	110	*110
Total input	214384	200877	211453	175672	222337	259288
Total production	80154	79005	83119	70645	80139	97977
Estimated efficiency (% of production to input)	37	39	39	40	36	38

Statistics on electricity

Philippines

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	94387	99782	106057	101773	106131	111533
Combustible fuels	72194	77544	85036	81408	84173	88154
Hydro	9628	9401	8043	7209	9202	10102
Nuclear	..	..	..	..	..	..
Other	12565	12837	12979	13156	12756	13277
Main activity	93378	98682	105025	100513	104684	110218
Combustible fuels	71202	76461	84021	80166	82743	86856
Hydro	9611	9384	8026	7192	9185	10085
Nuclear	..	..	..	..	..	..
Other	12565	12837	12979	13156	12756	13277
Own use in electricity, CHP and heat plants	8295	8148	8874	8788	8746	9507
Net production	86092	91634	97184	92985	97386	102026
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	8262	9007	9994	9742	9969	10693
Consumption	77794	82618	87118	83243	88636	91333
Energy industries own use	..	..	..	..	..	..
By industry and construction	25574	27587	28194	25566	27623	28844
By transport	112	105	106	76	108	118
By households and other cons.	52108	54925	58818	57601	60905	62371
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	23341	24464	26187	26899	24639	28259
Combustible fuels	16470	17480	19135	19713	17893	20605
Hydro	3643	3717	3776	3795	3532	3745
Nuclear	..	..	..	..	..	..
Other	3228	3267	3276	3390	3214	3909
Main activity	22728	23815	25531	26250	23990	27632
Combustible fuels	15873	16847	18495	19080	17260	19994
Hydro	3627	3701	3760	3779	3516	3729
Nuclear	..	..	..	..	..	..
Other	3228	3267	3276	3390	3214	3909
Combustible fuel input	Terajoules					
Brown Coal	514939	575508	632054	657530	701340	717166
Gas-diesel oil	17402	16473	17931	12780	9576	27232
Fuel oil	24284	15013	16148	9223	7825	8751
Natural gas	146138	157703	161726	145863	128016	119962
Bagasse	13825	15094	14144	17311	16077	18084
Municipal waste	527	543	634	467	274	609
Biodiesel	307	321	346	226	391	548
Total input	717423	780654	842984	843401	863499	892353
Total production	259899	279158	306131	293069	303024	317355
Estimated efficiency (% of production to input)	36	36	36	35	35	36

Statistics on electricity

Poland

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	170465	170039	163989	158043	179631	179748
Combustible fuels	152295	154428	145269	137254	156279	148579
Hydro	3034	2387	2665	2937	3101	3018
Nuclear	..	..	..	..	..	..
Other	15136	13224	16055	17852	20252	28151
Main activity	158554	155193	146774	139247	160634	157454
Combustible fuels	140614	140010	129006	120513	141302	134657
Hydro	3030	2384	2662	2934	3099	3017
Nuclear	..	..	..	..	..	..
Other	14909	12799	15107	15800	16234	19780
Own use in electricity, CHP and heat plants	15596	14780	12626	11892	12830	12656
Net production	154869	155260	151363	146151	166801	167092
Imports	13271	13816	17868	20624	15100	15238
Exports	10984	8121	7245	7357	14212	16915
Losses	9996	8894	8951	9995	9250	8811
Consumption	147159	152059	153034	149421	158437	156602
Energy industries own use	11372	11591	12623	12101	14750	15131
By industry and construction	54543	56424	56675	55272	56307	53184
By transport	3326	3469	3413	3174	3392	3502
By households and other cons.	77918	80574	80322	78875	83988	84785
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	42850	43046	43440	49368	52834	55819
Combustible fuels	34412	34314	33638	36715	36053	33092
Hydro	2390	2391	2397	2400	2398	2407
Nuclear	..	..	..	..	..	..
Other	6048	6340	7405	10254	14383	20321
Main activity	40077	39377	38760	42336	42302	40337
Combustible fuels	31929	31220	30526	33638	32937	29780
Hydro	2390	2391	2397	2399	2397	2406
Nuclear	..	..	..	..	..	..
Other	5758	5766	5838	6298	6967	8150
Combustible fuel input	Terajoules					
Hard Coal	953273	944114	875581	788395	926272	872891
Brown Coal	503717	483381	395678	368363	433426	442510
Biogas	8216	8582	8623	9597	9655	10246
Fuel oil	14890	12711	12489	13487	14571	16923
Natural gas	83638	102753	117539	135750	131214	96168
Coke-oven gas	22961	23502	22651	18713	22250	19369
Blast furnace gas	15884	16215	13887	11370	11756	11235
Fuelwood	*5482	*6820	*6683	*5333	*24336	*31126
Vegetal waste	*48172	*48202	*60495	*68433	*43429	*31368
Municipal waste	6497	8918	11039	12170	12037	12891
Others	3904	5168	4612	4961	4856	5079
Total input	1666633	1660366	1529276	1436573	1633800	1549805
Total production	548263	555940	522968	494115	562603	534885
Estimated efficiency (% of production to input)	33	33	34	34	34	35

Statistics on electricity

Portugal

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	59432	59636	53154	53078	50980	48808
Combustible fuels	38344	32155	27687	25214	21894	23011
Hydro	7632	13628	10243	13633	13455	8839
Nuclear	..	..	..	..	..	..
Other	13456	13853	15225	14231	15631	16958
Main activity	50996	51312	44477	44201	42485	41133
Combustible fuels	30392	24341	19689	17319	14461	16822
Hydro	7621	13610	10225	13615	13440	8829
Nuclear	..	..	..	..	..	..
Other	12983	13362	14563	13267	14584	15482
Own use in electricity, CHP and heat plants	1763	1439	969	800	617	647
Net production	57669	58197	52185	52278	50362	48161
Imports	5506	5668	8099	7553	9544	12315
Exports	8190	8325	4700	6097	4791	3061
Losses	5101	5060	4948	4501	4942	5000
Consumption	49884	50480	50637	49166	50100	52414
Energy industries own use	3243	2521	2758	2912	2779	3750
By industry and construction	16143	16397	16696	16067	16629	17014
By transport	485	491	494	430	472	498
By households and other cons.	30013	31071	30690	29757	30220	31152
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	20968	21233	21665	21783	21596	23020
Combustible fuels	7975	8080	8160	8163	6987	6186
Hydro	7226	7236	7262	7241	7255	8189
Nuclear	..	..	..	..	..	..
Other	5768	5917	6243	6379	7355	8645
Main activity	18866	18972	19204	19213	18854	19882
Combustible fuels	6205	6208	6281	6278	5098	4525
Hydro	7220	7230	7256	7235	7249	8183
Nuclear	..	..	..	..	..	..
Other	5441	5534	5667	5700	6507	7175
Combustible fuel input	Terajoules					
Biogas	3224	3127	3068	3168	3349	3105
Gas-diesel oil	790	740	697	699	687	730
Fuel oil	9362	8647	9279	8660	8246	8815
Refinery gas	469	525	628	797	1764	1128
Natural gas	155584	133961	146170	147715	130247	135975
Fuelwood	*17483	*18083	*21304	*25863	*28563	*30214
Municipal waste	8738	8120	8666	8341	8867	8513
Industrial waste	131	128	124	122	170	119
Biodiesel	41	41	40	40	49	47
Black liquor	*9033	*9138	*8413	*8761	*9793	..
Others	135512	112417	52058	28657	9427	..
Total input	340367	294928	250448	232823	201162	188645
Total production	138039	115758	99674	90772	78817	82839
Estimated efficiency (% of production to input)	41	39	40	39	39	44

Statistics on electricity

Puerto Rico

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	16361	17453	18886	18774	19184	18325
Combustible fuels	16002	17226	18444	18321	18705	17872
Hydro	51	38	41	51	40	45
Nuclear	..	..	..	..	..	..
Other	308	189	401	402	439	409
Main activity	16151	17233	18656	18542	18951	18090
Combustible fuels	15792	17006	18214	18089	18472	17637
Hydro	51	38	41	51	40	45
Nuclear	..	..	..	..	..	..
Other	308	189	401	402	439	409
Own use in electricity, CHP and heat plants	663	664	670	632	646	649
Net production	15698	16789	18217	18142	18538	17676
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*982	*524	*1133	*1126	*1200	*1100
Consumption	13559	16375	16077	16035	16269	15683
Energy industries own use	..	..	..	..	..	..
By industry and construction	1741	2128	2048	1910	1853	1768
By transport	..	..	..	..	..	..
By households and other cons.	11817	14246	14029	14126	14416	13915
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*6264	5830	6173	6107	6107	*6106
Combustible fuels	*5900	5466	5808	5742	5742	*5742
Hydro	99	99	99	99	98	98
Nuclear	..	..	..	..	..	..
Other	266	266	267	267	*267	*266
Main activity	*6203	5770	6113	6047	6047	*6046
Combustible fuels	*5839	5406	5748	5682	5682	*5682
Hydro	99	99	99	99	98	98
Nuclear	..	..	..	..	..	..
Other	266	266	267	267	*267	*266
Combustible fuel input	Terajoules					
Hard Coal	26195	29113	40540	35099	32889	36946
Biogas	*139	*136	*195	*121	175	*179
Fuel oil	85616	78235	73249	107084	79439	98876
Natural gas	50727	66336	74140	54629	78042	55247
Total input	162677	173819	188124	196933	190545	191248
Total production	57607	62013	66399	65957	67339	64339
Estimated efficiency (% of production to input)	35	36	35	33	35	34

Statistics on electricity

Qatar

Item	2017	2018	2019	2020	2021	2022
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	45555	47913	49873	49259	51641	54623
Combustible fuels	45555	47913	49873	49259	51641	54623
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	2742	1533	1930	2759	1637	2706
Combustible fuels	2742	1533	1930	2759	1637	2706
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	2831	3259	3440	3434	3312	3298
Net production	42724	44654	46432	45825	48329	51325
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	2695	2786	2772	2774	2925	3121
Consumption	40030	*41868	*43660	43089	45404	48199
Energy industries own use	..	..	..	..	..	..
By industry and construction	11262	12197	12124	10465	10967	11818
By transport	..	..	..	..	..	..
By households and other cons.	28768	*29671	*31536	32625	34437	36382
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*10170	*10590	*10590	*10590	10576	10574
Combustible fuels	*10170	*10590	*10590	*10590	10576	10574
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	*1526	*1553	*1553	*1553	1553	1553
Combustible fuels	*1526	*1553	*1553	*1553	1553	1553
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Natural gas	438866	452056	472908	473104	487126	512466
Total input	438866	452056	472908	473104	487126	512466
Total production	163998	172487	179542	177332	185909	196644
Estimated efficiency (% of production to input)	37	38	38	37	38	38