

Statistics on electricity

Madagascar

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	2099	2178	2167	2245	2274	2299
Combustible fuels	1107	1259	1317	1441	1398	1259
Hydro	968	886	818	767	822	983
Nuclear	..	..	..	..	..	..
Other	*23	32	32	36	54	58
Main activity	1820	1892	1869	1911	1934	1954
Combustible fuels	829	974	1018	1107	1058	914
Hydro	968	886	818	767	822	983
Nuclear	..	..	..	..	..	..
Other	*23	32	32	36	54	58
Own use in electricity, CHP and heat plants	*29	*43	*38	*30	*29	*29
Net production	2070	2134	2129	2215	2245	2270
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*130	*135	*132	*135	*137	*139
Consumption	*1940	1999	*1997	*2080	2108	*2131
Energy industries own use	..	..	..	..	..	..
By industry and construction	*608	*533	*643	*659	*700	*660
By transport	..	..	..	..	..	..
By households and other cons.	*1332	1466	*1354	*1421	1408	*1471
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	708	595	*653	*699	*760	*873
Combustible fuels	521	407	*465	*511	*515	*622
Hydro	165	165	164	164	192	193
Nuclear	..	..	..	..	..	..
Other	22	23	24	24	53	58
Main activity	600	489	*551	*596	*655	*753
Combustible fuels	413	301	*363	*408	*410	*502
Hydro	165	165	164	164	192	193
Nuclear	..	..	..	..	..	..
Other	22	23	24	24	53	58
Combustible fuel input	Terajoules					
Hard Coal	851	955	*1084	*1135	*1135	*1161
Gas-diesel oil	*4184	*4175	*4150	*4128	*4300	*4386
Fuel oil	5361	5822	6686	*7983	*6464	7070
Bagasse	*335	*377	*402	*432	*432	*463
Total input	10732	11328	12321	*13679	*12332	13080
Total production	3987	4532	4740	5189	5033	4531
Estimated efficiency (% of production to input)	37	40	38	38	41	35

Statistics on electricity

Malawi

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1803	1937	2191	2401	2115	*2060
Combustible fuels	*385	*125	324	167	193	*190
Hydro	1365	1647	1867	2194	1757	*1700
Nuclear	..	..	..	..	..	..
Other	53	165	0	40	165	*170
Main activity	1418	1812	2061	2271	1985	*1930
Combustible fuels	*5	*5	199	42	68	*65
Hydro	1360	1642	1862	2189	1752	*1695
Nuclear	..	..	..	..	..	..
Other	53	165	0	40	165	*170
Own use in electricity, CHP and heat plants	11	50	5	127	307	*110
Net production	1792	1887	2186	2273	1808	*1950
Imports	..	..	10	17	19	..
Exports	19	20	20	20	15	*18
Losses	*296	*291	381	537	343	*348
Consumption	1474	1696	1817	1795	1716	1584
Energy industries own use	..	..	..	..	..	..
By industry and construction	581	823	917	796	755	*654
By transport	..	..	..	..	..	..
By households and other cons.	893	873	900	999	961	930
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	593	719	747	728	*752	*772
Combustible fuels	*211	*263	*263	*263	*263	*263
Hydro	356	376	403	403	*407	*407
Nuclear	..	..	..	..	..	..
Other	26	80	*80	61	81	102
Main activity	378	504	532	513	*537	*557
Combustible fuels	*1	53	53	53	53	*53
Hydro	351	371	398	398	*402	*402
Nuclear	..	..	..	..	..	..
Other	26	80	*80	61	81	102
Combustible fuel input	Terajoules					
Motor gasoline	..	..	22	22	22	..
Gas-diesel oil	*4588	*1075	2004	*457	*632	*645
Bagasse	*903	*903	1682	1307	1307	*903
Total input	*5492	*1978	3708	1786	1962	*1548
Total production	*1386	*450	1166	600	693	*684
Estimated efficiency (% of production to input)	25	23	31	34	35	44

Statistics on electricity

Malaysia

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	170578	178364	174142	179987	196183	192987
Combustible fuels	143621	150783	144794	146849	160895	157674
Hydro	26325	26167	27295	31101	31896	31896
Nuclear	..	..	..	..	..	..
Other	632	1414	2054	2037	3392	3417
Main activity	163415	171270	167466	173301	188128	185139
Combustible fuels	136517	143699	138128	140173	152850	149836
Hydro	26325	26167	27295	31101	31896	31896
Nuclear	..	..	..	..	..	..
Other	573	1404	2044	2027	3382	3407
Own use in electricity, CHP and heat plants	696	6061	5918	6117	6667	6558
Net production	169882	172302	168224	173871	189516	186428
Imports	20	41	18	35	..	18
Exports	1509	1699	1572	977	814	1121
Losses	14109	12303	12012	12415	13532	13311
Consumption	152866	158709	152131	155400	168368	182164
Energy industries own use	..	..	..	..	..	..
By industry and construction	76088	78480	74245	77409	84515	84446
By transport	482	478	390	349	442	587
By households and other cons.	76296	79752	77496	77642	83410	97131
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	34389	*34088	*35709	36831	39625	40448
Combustible fuels	26432	*26260	*27257	28168	30768	31263
Hydro	6168	6245	6275	6190	6215	6267
Nuclear	..	..	..	..	..	..
Other	1790	1584	2178	2473	2642	2919
Main activity	31714	*31699	*33410	34532	37325	38149
Combustible fuels	24479	*24498	*25497	26408	29008	29503
Hydro	6168	6245	6275	6190	6215	6267
Nuclear	..	..	..	..	..	..
Other	1066	956	1638	1933	2102	2379
Combustible fuel input	Terajoules					
Hard Coal	857092	810193	981830	897022	932275	914648
Biogas	6146	4425	6025	5795	6781	6872
Gas-diesel oil	14448	24892	8957	11184	23131	23131
Fuel oil	687	769	486	326	2364	2448
Natural gas	536208	670151	523688	505285	623880	601246
Vegetal waste	12581	10540	11348	10886	10925	11053
Total input	1427162	1520971	1532333	1430498	1599355	1559399
Total production	517036	542820	521258	528657	579223	567625
Estimated efficiency (% of production to input)	36	36	34	37	36	36

Statistics on electricity

Maldives

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	773	830	745	1195	1227	*1155
Combustible fuels	745	797	703	1151	1178	*1099
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	27	33	43	45	49	56
Main activity	493	580	535	1035	1097	*975
Combustible fuels	465	547	493	991	1048	*919
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	27	33	43	45	49	56
Own use in electricity, CHP and heat plants	*21	*21	*25	*28	*32	*30
Net production	752	809	720	1167	1195	*1125
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*46	*50	*45	*72	*74	*75
Consumption	*706	*759	*675	*1096	*1121	*1050
Energy industries own use	..	..	..	..	..	..
By industry and construction	*48	*50	*39	*66	*72	*67
By transport	..	..	..	..	..	..
By households and other cons.	*658	*709	*636	*1030	*1050	*982
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*304	418	*426	*428	*447	*456
Combustible fuels	*286	388	*386	*387	*394	*400
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	18	30	40	41	53	56
Main activity	*179	*208	*216	*218	*233	*241
Combustible fuels	*161	*178	*176	*177	*180	*185
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	18	30	40	41	53	56
Combustible fuel input	Terajoules					
Gas-diesel oil	*8790	*9086	*8389	*11640	*12068	*13915
Total input	*8790	*9086	*8389	*11640	*12068	*13915
Total production	2683	2868	2529	4143	4242	*3955
Estimated efficiency (% of production to input)	31	32	30	36	35	28

Statistics on electricity

Mali

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*3289	*3535	*3728	*3969	*4209	*4295
Combustible fuels	*1991	*2137	*2191	*2381	*2296	*2342
Hydro	*1267	1365	1444	*1473	1787	*1823
Nuclear	..	..	..	..	..	..
Other	31	33	93	115	125	130
Main activity	*2218	2411	2595	*2806	2860	*2920
Combustible fuels	949	1044	1090	*1250	*1011	*1031
Hydro	*1267	1365	1444	*1473	1787	*1823
Nuclear	..	..	..	..	..	..
Other	3	2	61	83	62	66
Own use in electricity, CHP and heat plants	*99	*106	*112	*119	126	*131
Net production	*3190	*3429	*3616	*3850	*4082	*4164
Imports	437	604	766	402	489	*498
Exports	571	560	615	533	*192	*187
Losses	*356	*370	*407	*419	*400	*410
Consumption	2700	3103	3361	3301	3979	4065
Energy industries own use	..	..	..	..	..	..
By industry and construction	*969	*1241	*1385	*1151	*1040	*1060
By transport	..	..	..	..	..	..
By households and other cons.	1731	1862	1976	2150	2940	3005
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1098	1100	1154	1154	*1295	*1315
Combustible fuels	629	629	629	629	*675	*684
Hydro	*450	*450	*453	*453	*523	*534
Nuclear	..	..	..	..	..	..
Other	19	21	71	71	97	97
Main activity	*821	*821	*874	*874	*948	*962
Combustible fuels	369	369	369	369	*369	*372
Hydro	*450	*450	*453	*453	*523	*534
Nuclear	..	..	..	..	..	..
Other	2	2	52	52	56	56
Combustible fuel input	Terajoules					
Gas-diesel oil	14233	11180	12556	16598	17071	*17415
Fuel oil	10504	11635	9413	8484	11150	*11393
Bagasse	896	896	896	896	896	*896
Total input	25633	23711	22865	25978	29117	*29704
Total production	*7167	*7692	*7888	*8572	*8266	*8431
Estimated efficiency (% of production to input)	28	32	34	33	28	28

Statistics on electricity

Malta

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1962	2060	2143	2215	2293	2345
Combustible fuels	1772	1864	1906	1959	2004	2036
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	190	195	237	256	289	309
Main activity	1763	1858	1900	1952	1997	2026
Combustible fuels	1763	1858	1900	1952	1997	2026
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	50	59	62	55	52	49
Net production	1912	2001	2081	2160	2242	2296
Imports	631	657	420	547	646	648
Exports	11	20	4	36	7	26
Losses	143	158	128	167	185	180
Consumption	2390	2479	2368	2505	2696	2704
Energy industries own use	3	5	5	3	3	4
By industry and construction	477	470	462	490	504	493
By transport	1	2	2	7	11	18
By households and other cons.	1909	2002	1899	2005	2179	2188
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	727	750	783	801	724	729
Combustible fuels	595	595	595	596	502	488
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	132	155	188	206	222	241
Main activity	590	590	590	590	498	484
Combustible fuels	590	590	590	590	498	484
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Combustible fuel input	Terajoules					
Biogas	43	31	28	56	40	64
Gas-diesel oil	224	410	997	439	663	215
Fuel oil	0	..	..	..	..	..
Natural gas	13602	14216	14799	14777	15011	15680
Total input	13869	14657	15824	15271	15715	15959
Total production	6381	6712	6862	7053	7214	7328
Estimated efficiency (% of production to input)	46	46	43	46	46	46

Statistics on electricity

Marshall Islands

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*85	*82	*82	*82	*81	*80
Combustible fuels	*83	*80	*80	*80	*79	*78
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	2	2	2	*2
Main activity	*85	*82	*82	*82	*81	*80
Combustible fuels	*83	*80	*80	*80	*79	*78
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	2	2	2	*2
Own use in electricity, CHP and heat plants	*3	*4	*3	*3	*3	*3
Net production	*82	*79	*79	*79	*78	*77
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*18	*18	*18	*18	*18	*17
Consumption	*64	*61	*61	*61	*60	*60
Energy industries own use	..	..	..	..	..	..
By industry and construction	*4	*4	*4	*4	*4	*4
By transport	..	..	..	..	..	..
By households and other cons.	*60	*57	*57	*57	*56	*56
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*35	32	*32	*32	*32	*32
Combustible fuels	*33	30	*30	*30	*30	*30
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	2	2	2	2
Main activity	*35	32	*32	*32	*32	*32
Combustible fuels	*33	30	*30	*30	*30	*30
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	2	2	2	2	2
Combustible fuel input	Terajoules					
Gas-diesel oil	*817	*817	*826	*826	*839	*839
Total input	*817	*817	*826	*826	*839	*839
Total production	*298	*287	*287	*287	*284	*280
Estimated efficiency (% of production to input)	36	35	35	35	34	33

Statistics on electricity

Mauritania

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1281	1477	1461	1525	1496	1440
Combustible fuels	1023	1216	1178	1241	1263	1198
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	258	*261	283	*284	233	*242
Main activity	925	1102	1081	1141	1167	1047
Combustible fuels	677	854	810	871	946	818
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	248	*248	271	*270	221	*229
Own use in electricity, CHP and heat plants	105	95	72	195	23	*95
Net production	1176	1382	1389	1330	1473	1345
Imports	198	204	*225	*200	394	*382
Exports	..	..	..	..	..	..
Losses	*230	*217	*224	*210	*184	*230
Consumption	1143	1369	1390	1320	1682	*1497
Energy industries own use	..	..	..	..	..	..
By industry and construction	342	372	380	383	274	*275
By transport	..	..	..	..	..	..
By households and other cons.	801	997	1010	937	1408	*1222
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*571	*608	*626	*626	*626	*727
Combustible fuels	*449	*486	*504	*504	*504	*505
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	122	*122	*122	*122	*122	*222
Main activity	*479	*511	*524	*524	*524	*620
Combustible fuels	*364	*396	*409	*409	*409	*405
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	115	*115	*115	*115	*115	*215
Combustible fuel input	Terajoules					
Gas-diesel oil	*8815	*9370	*8905	*8011	*9718	*8944
Fuel oil	*2828	*2828	*2909	*2990	*2990	*3070
Total input	*11643	*12198	*11814	*11001	*12708	*12014
Total production	3683	4376	4240	4467	4547	4312
Estimated efficiency (% of production to input)	32	36	36	41	36	36

Statistics on electricity

Mauritius

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	3131	3237	2883	2992	3119	3265
Combustible fuels	2943	2994	2603	2719	2821	3014
Hydro	125	99	116	107	128	94
Nuclear	..	..	..	..	..	..
Other	64	144	164	167	170	157
Main activity	1373	1482	1201	1226	1691	1715
Combustible fuels	1246	1381	1082	1114	1554	1609
Hydro	125	99	116	107	128	94
Nuclear	..	..	..	..	..	..
Other	3	3	3	5	9	12
Own use in electricity, CHP and heat plants	44	45	47	53	59	66
Net production	3088	3192	2836	2939	3060	3200
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	165	182	143	191	172	*188
Consumption	2918	3001	2683	2748	2887	3012
Energy industries own use	..	..	..	..	..	..
By industry and construction	1002	991	863	898	872	862
By transport	..	..	..	5	8	12
By households and other cons.	1916	2010	1820	1845	2007	2138
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	873	844	862	863	866	884
Combustible fuels	735	684	684	684	684	684
Hydro	60	60	61	61	61	61
Nuclear	..	..	..	..	..	..
Other	78	100	117	119	122	139
Main activity	516	516	516	521	521	534
Combustible fuels	454	454	454	454	454	454
Hydro	60	60	61	61	61	61
Nuclear	..	..	..	..	..	..
Other	1	1	1	7	7	19
Combustible fuel input	Terajoules					
Hard Coal	17916	16464	16139	18046	14352	16056
Biogas	*271	*238	*298	*228	*207	*160
Gas-diesel oil	34	28	35	39	34	42
Fuel oil	9991	11034	8574	8973	12358	12698
Other kerosene	28	162	11	26	35	267
Bagasse	7791	7736	6514	6161	5286	5468
Total input	36032	35662	31571	33473	32272	34691
Total production	10593	10779	9370	9787	10155	10849
Estimated efficiency (% of production to input)	29	30	30	29	31	31

Statistics on electricity

Mexico

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	352214	340043	331494	350364	364709	380359
Combustible fuels	279724	267416	245464	252394	257453	293644
Hydro	32526	23815	27060	35031	35883	20796
Nuclear	13555	11190	11178	11923	10850	12386
Other	26409	37622	47792	51016	60523	53533
Main activity	286813	278758	262697	289580	311782	324326
Combustible fuels	226758	220287	191853	205991	214549	251702
Hydro	31621	23026	26277	34248	35284	20252
Nuclear	13555	11190	11178	11923	10850	12386
Other	14879	24255	33389	37418	51099	39986
Own use in electricity, CHP and heat plants	38247	19348	15130	18853	18590	22613
Net production	313967	320695	316364	331511	346119	357746
Imports	3673	3907	9965	1737	2147	2075
Exports	2426	3084	5955	2693	2421	3112
Losses	42075	40018	36985	42047	41126	42336
Consumption	303881	284167	303740	297771	302834	308321
Energy industries own use	4185	4092	3781	2730	2839	2911
By industry and construction	168392	153433	175159	171470	177040	176376
By transport	1073	1106	945	1582	1634	1653
By households and other cons.	130231	125537	123855	121989	121321	127381
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	87349	95409	96641	106143	119339	119547
Combustible fuels	62010	63521	63521	71083	64326	64326
Hydro	12628	13076	13301	13303	12838	12838
Nuclear	1634	1721	1721	1721	1608	1608
Other	11077	17091	18098	20036	40567	40775
Main activity	75155	83552	84794	92997	100265	100472
Combustible fuels	53963	56823	56823	63452	55762	55762
Hydro	12395	12851	13076	13078	12613	12613
Nuclear	1634	1721	1721	1721	1608	1608
Other	7163	12157	13174	14746	30282	30489
Combustible fuel input	Terajoules					
Hard Coal	183718	201282	137603	138298	193423	248691
Brown Coal	120895	99833	51313	57610	81082	108698
Biogas	2082	2195	2888	2437	1809	1598
Gas-diesel oil	41280	35088	35088	43559	58867	57964
Fuel oil	365418	365862	365862	374670	156025	194526
Petroleum coke	37863	37830	37830	32598	35555	30550
Natural gas	1737265	1666240	1661626	1783232	1844874	2047594
Blast furnace gas	2452	2060	2452	1420	1418	989
Bagasse	*76630	*73843	*69390	*55635	*57316	*46368
Industrial waste	1010	1067	1200	8602	285	2298
Others	*10896	*7215	*6897	117	167	..
Total input	2579508	2492515	2372150	2498177	2430821	2739276
Total production	1007006	962698	883670	908617	926832	1057119
Estimated efficiency (% of production to input)	39	39	37	36	38	39

Statistics on electricity

Micronesia (Fed. States of)

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*73	*81	*92	90	92	90
Combustible fuels	*65	*71	*80	78	80	78
Hydro	1	1	1	1	1	1
Nuclear	..	..	..	..	..	..
Other	7	8	11	11	11	11
Main activity	*73	*81	*92	90	92	90
Combustible fuels	*65	*71	*80	78	80	78
Hydro	1	1	1	1	1	1
Nuclear	..	..	..	..	..	..
Other	7	8	11	11	11	11
Own use in electricity, CHP and heat plants	*5	*3	*6	4	4	2
Net production	*68	*77	*86	86	88	88
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*21	*20	*21	21	*21	*21
Consumption	*47	*57	*65	*65	*67	*68
Energy industries own use	..	..	..	..	..	..
By industry and construction	*14	*12	*15	*15	*16	*16
By transport	..	..	..	..	..	..
By households and other cons.	*33	*45	*50	*50	*52	*52
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*37	*39	47	47	47	47
Combustible fuels	*32	*32	38	38	38	39
Hydro	1	1	1	1	1	1
Nuclear	..	..	..	..	..	..
Other	5	6	8	8	8	8
Main activity	*37	*39	47	47	47	47
Combustible fuels	*32	*32	38	38	38	39
Hydro	1	1	1	1	1	1
Nuclear	..	..	..	..	..	..
Other	5	6	8	8	8	8
Combustible fuel input	Terajoules					
Gas-diesel oil	*830	*826	*830	*820	*834	*841
Total input	*830	*826	*830	*820	*834	*841
Total production	*233	*257	*289	281	287	281
Estimated efficiency (% of production to input)	28	31	35	34	34	33

Statistics on electricity

Mongolia

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	6535	6900	6970	7825	8035	8487
Combustible fuels	6055	6416	6486	7061	7387	7723
Hydro	81	*85	85	138	68	48
Nuclear	..	..	..	..	..	..
Other	399	*399	399	627	580	717
Main activity	6454	6815	6885	7687	7967	8440
Combustible fuels	6055	6416	6486	7061	7387	7723
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	399	*399	399	627	580	717
Own use in electricity, CHP and heat plants	849	861	834	887	930	1059
Net production	5686	6040	6136	6938	7105	7428
Imports	1666	1723	1685	1823	2107	2427
Exports	27	24	42	24	25	37
Losses	875	892	963	1019	1091	1179
Consumption	6450	6847	6817	7755	8095	8639
Energy industries own use	..	..	..	..	..	..
By industry and construction	4003	4249	4231	4791	5024	5362
By transport	268	285	284	321	337	359
By households and other cons.	2178	2313	2302	2644	2734	2918
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*1461	*1486	*1507	*1507	*1507	1557
Combustible fuels	*1210	*1210	*1230	*1230	*1230	1278
Hydro	31	31	31	31	31	29
Nuclear	..	..	..	..	..	..
Other	220	245	246	246	246	250
Main activity	*1420	*1445	*1466	*1466	*1466	1519
Combustible fuels	*1200	*1200	*1220	*1220	*1220	1269
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	220	245	246	246	246	250
Combustible fuel input	Terajoules					
Hard Coal	63440	45811	33124	53598	53601	70769
Brown Coal	79093	87952	90042	92966	100300	99290
Gas-diesel oil	4124	*4356	*4644	4803	4772	6545
Fuel oil	121	121	113	73	101	149
Total input	146777	138240	127923	151439	158774	176753
Total production	21799	23099	23349	25419	26592	27803
Estimated efficiency (% of production to input)	15	17	18	17	17	16

Statistics on electricity

Montenegro

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	3679	3423	3386	3781	3322	4187
Combustible fuels	1444	1506	1615	1444	1551	1637
Hydro	2092	1621	1448	2010	1444	2221
Nuclear	..	..	..	..	..	..
Other	143	296	322	327	328	329
Main activity	3679	3423	3386	3781	3322	4187
Combustible fuels	1444	1506	1615	1444	1551	1637
Hydro	2092	1621	1448	2010	1444	2221
Nuclear	..	..	..	..	..	..
Other	143	296	322	327	328	329
Own use in electricity, CHP and heat plants	134	129	141	129	106	127
Net production	3546	3294	3245	3653	3216	4059
Imports	780	1196	5943	5318	5352	5421
Exports	976	943	5864	5489	5487	6288
Losses	503	493	487	504	477	474
Consumption	2847	3054	2837	2978	2604	2719
Energy industries own use	..	..	..	..	..	..
By industry and construction	737	699	700	678	198	170
By transport	19	21	12	11	12	12
By households and other cons.	2090	2335	2124	2289	2394	2537
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	998	998	1042	1042	1043	1057
Combustible fuels	225	225	225	225	225	225
Hydro	652	652	697	697	697	697
Nuclear	..	..	..	..	..	..
Other	120	120	121	121	121	135
Main activity	998	998	1042	1042	1043	1057
Combustible fuels	225	225	225	225	225	225
Hydro	652	652	697	697	697	697
Nuclear	..	..	..	..	..	..
Other	120	120	121	121	121	135
Combustible fuel input	Terajoules					
Brown Coal	14816	15109	15766	13704	14713	15847
Total input	14816	15109	15766	13704	14713	15847
Total production	5198	5423	5815	5199	5582	5891
Estimated efficiency (% of production to input)	35	36	37	38	38	37

Statistics on electricity

Montserrat

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	14	14	14	14	14	14
Combustible fuels	14	14	14	13	13	13
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	0	0	0	0	2
Main activity	14	14	14	14	14	14
Combustible fuels	14	14	14	13	13	13
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	0	0	0	0	2
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	1	0	0	0	0	*1
Consumption	11	12	12	11	11	11
Energy industries own use	..	..	..	..	..	..
By industry and construction	0	0	0	0	0	0
By transport	..	..	..	..	..	..
By households and other cons.	11	12	12	11	11	11
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	5	6	6	6	*6	*6
Combustible fuels	5	5	5	5	*5	*5
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	0	0	1	1	1
Main activity	5	6	6	6	*6	*6
Combustible fuels	5	5	5	5	*5	*5
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	0	0	1	1	1
Combustible fuel input	Terajoules					
Gas-diesel oil	*186	*168	*172	*181	*146	*142
Total input	*186	*168	*172	*181	*146	*142
Total production	51	51	49	47	48	45
Estimated efficiency (% of production to input)	27	30	28	26	33	32

Statistics on electricity

Morocco

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	35822	41650	40057	42562	42723	43711
Combustible fuels	27708	32390	31353	33120	33937	33237
Hydro	1998	1654	1290	1213	679	516
Nuclear	..	..	..	..	..	..
Other	6116	7607	7414	8229	8106	9958
Main activity	34432	40083	38396	40942	41092	42141
Combustible fuels	27708	32214	31070	32885	33673	33034
Hydro	1998	1654	1290	1213	679	516
Nuclear	..	..	..	..	..	..
Other	4726	6216	6036	6845	6740	8592
Own use in electricity, CHP and heat plants	42	41	38	44	41	38
Net production	35779	41610	40019	42518	42682	43673
Imports	3724	526	856	688	1868	2311
Exports	350	1453	624	851	471	462
Losses	6114	6678	6771	7274	7601	7951
Consumption	33040	34004	33480	35081	36478	37572
Energy industries own use	406	527	577	541	459	229
By industry and construction	12065	12432	11826	12838	13118	13628
By transport	308	330	214	312	319	371
By households and other cons.	20261	20715	20863	21389	22581	23344
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*10938	*10677	*10627	*10968	*11055	*11474
Combustible fuels	*7278	*7017	*6717	*6942	*6943	*6982
Hydro	1306	1306	1306	1306	1306	1306
Nuclear	..	..	..	..	..	..
Other	2354	2354	2604	2720	2806	3186
Main activity	*10538	*10207	*10160	*10499	*10587	*11005
Combustible fuels	*7278	*6947	*6650	*6873	*6874	*6912
Hydro	1306	1306	1306	1306	1306	1306
Nuclear	..	..	..	..	..	..
Other	1954	1954	2204	2320	2407	2787
Combustible fuel input	Terajoules					
Hard Coal	214785	278225	279407	293030	296899	276247
Gas-diesel oil	255	186	159	294	502	231
Fuel oil	12420	8315	6733	14373	46111	20217
Natural gas	39792	37016	27994	27710	6184	33698
Total input	267252	323742	314292	335407	349696	330393
Total production	99749	116602	112870	119233	122175	119654
Estimated efficiency (% of production to input)	37	36	36	36	35	36

Statistics on electricity

Mozambique

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	17140	18593	19148	18996	19627	19781
Combustible fuels	3239	3744	3399	3460	3384	3363
Hydro	13899	14818	15703	15466	16173	16351
Nuclear	..	..	..	..	..	..
Other	1	30	46	69	70	67
Main activity	16927	18370	18938	18785	19403	19628
Combustible fuels	3027	3521	3189	3250	3159	3210
Hydro	13899	14818	15703	15466	16173	16351
Nuclear	..	..	..	..	..	..
Other	1	30	46	69	70	67
Own use in electricity, CHP and heat plants	234	239	418	225	350	255
Net production	16906	18354	18730	18771	19278	19526
Imports	8327	8386	8114	8129	8247	7918
Exports	9738	11061	11489	11174	11457	11392
Losses	2663	2684	3041	2947	2976	3361
Consumption	12437	12994	12314	12779	13092	13279
Energy industries own use	93	116	94	94	97	*98
By industry and construction	10416	10187	10018	10104	10402	11105
By transport	..	..	..	..	..	..
By households and other cons.	1928	2692	2202	2581	2594	2076
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2719	3019	3019	3020	3061	3093
Combustible fuels	*460	785	785	785	785	799
Hydro	2204	2192	2192	2192	2192	2192
Nuclear	..	..	..	..	..	..
Other	55	42	42	43	84	102
Main activity	2669	2969	2969	2970	3011	3043
Combustible fuels	*410	735	735	735	735	749
Hydro	2204	2192	2192	2192	2192	2192
Nuclear	..	..	..	..	..	..
Other	55	42	42	43	84	102
Combustible fuel input	Terajoules					
Gas-diesel oil	47	44	52	63	355	366
Fuel oil	2267	1250	1170	1432	1072	1333
Natural gas	25710	29940	27556	27330	31181	28153
Bagasse	3130	*2471	2412	*1722	*1390	1517
Total input	31154	33705	31190	30547	33998	31369
Total production	11661	13478	12237	12457	12184	12108
Estimated efficiency (% of production to input)	37	40	39	41	36	39

Statistics on electricity

Myanmar

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	22883	23778	23643	22075	21539	20943
Combustible fuels	11641	14328	15194	12350	12275	11284
Hydro	11228	9369	8370	9590	9070	9282
Nuclear	..	..	..	..	..	..
Other	14	81	79	135	194	377
Main activity	10487	9363	7222	7216	6621	6843
Combustible fuels	2862	3399	1951	971	1202	958
Hydro	7625	5964	5271	6245	5418	5884
Nuclear	..	..	..	..	..	..
Other	..	..	..	1	1	1
Own use in electricity, CHP and heat plants	184	205	174	143	182	180
Net production	22699	23573	23469	21931	21357	20762
Imports	152	122	129	140	203	474
Exports	1527	1281	1637	852	1678	1132
Losses	3405	3734	4273	4658	4232	4149
Consumption	17919	18681	19196	17273	17125	16772
Energy industries own use	..	..	..	..	..	..
By industry and construction	4581	5553	4718	5087	4871	4693
By transport	..	..	..	..	..	..
By households and other cons.	13338	13128	14477	12186	12254	12079
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	5838	7129	6830	7174	7291	7330
Combustible fuels	2536	3827	3527	3841	3848	3887
Hydro	3262	3262	3262	3262	3262	3262
Nuclear	..	..	..	..	..	..
Other	40	40	41	71	181	181
Main activity	3144	3410	3234	3236	3236	3236
Combustible fuels	993	1259	1083	1084	1084	1084
Hydro	2151	2151	2151	2151	2151	2151
Nuclear	..	..	..	..	..	..
Other	..	..	..	1	1	1
Combustible fuel input	Terajoules					
Hard Coal	21934	32145	*21097	19422	19724	31238
Biogas	21	21	21	21	21	21
Crude oil	..	..	..	169	..	..
Gas-diesel oil	860	1247	1591	172	86	..
Natural gas	126322	121094	*146908	*112650	131698	118665
Total input	149137	154507	*169617	*132434	151529	149924
Total production	41908	51581	54697	44458	44188	40622
Estimated efficiency (% of production to input)	28	33	32	34	29	27

Statistics on electricity

Namibia

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	1462	1428	2039	1494	1207	1811
Combustible fuels	21	52	65	41	20	36
Hydro	1144	954	1505	968	781	1323
Nuclear	..	..	..	..	..	..
Other	*297	*422	*469	*485	406	451
Main activity	1437	1402	2012	1467	1180	1784
Combustible fuels	21	52	65	41	20	36
Hydro	1144	954	1505	968	781	1323
Nuclear	..	..	..	..	..	..
Other	*272	*396	*442	*458	379	424
Own use in electricity, CHP and heat plants	*170	*149	*160	*143	27	27
Net production	1292	1279	1879	1351	1180	1784
Imports	3337	3161	2785	2825	2917	2483
Exports	114	119	593	382	169	198
Losses	*338	*287	*310	*271	*522	*519
Consumption	*4171	*4040	*3759	*3521	3235	3441
Energy industries own use	..	..	..	..	..	..
By industry and construction	586	537	397	135	1356	1512
By transport	..	..	..	..	..	..
By households and other cons.	*3585	*3503	*3362	*3386	1879	1930
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	596	614	631	642	658	658
Combustible fuels	143	113	113	120	144	144
Hydro	347	347	347	351	347	347
Nuclear	..	..	..	..	..	..
Other	106	154	171	171	167	167
Main activity	582	600	616	628	643	643
Combustible fuels	143	113	113	120	144	144
Hydro	347	347	347	351	347	347
Nuclear	..	..	..	..	..	..
Other	93	140	157	157	152	152
Combustible fuel input	Terajoules					
Hard Coal	302	634	806	576	325	542
Gas-diesel oil	2	104	123	14	27	82
Total input	304	737	929	590	352	623
Total production	76	187	234	148	72	130
Estimated efficiency (% of production to input)	25	25	25	25	20	21

Statistics on electricity

Nauru

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	36	36	38	43	*46	*46
Combustible fuels	35	35	36	39	*41	*41
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	2	4	*5	*5
Main activity	36	36	38	43	*46	*46
Combustible fuels	35	35	36	39	*41	*41
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	2	4	*5	*5
Own use in electricity, CHP and heat plants	1	1	3	3	*1	*1
Net production	36	35	35	41	*44	*45
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	8	*8	*8	*8	*8	*9
Consumption	28	30	30	33	*36	*36
Energy industries own use	..	..	..	..	..	..
By industry and construction	1	2	1	2	*2	*2
By transport	..	..	..	..	..	..
By households and other cons.	27	28	29	31	*34	*34
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*14	*14	18	18	*19	*19
Combustible fuels	*13	*13	16	16	*16	*16
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	2	2	*3	*3
Main activity	*14	*14	18	18	*19	*19
Combustible fuels	*13	*13	16	16	*16	*16
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	1	1	2	2	*3	*3
Combustible fuel input	Terajoules					
Gas-diesel oil	344	343	344	355	*396	*396
Total input	344	343	344	355	*396	*396
Total production	126	126	129	140	*146	*147
Estimated efficiency (% of production to input)	37	37	37	39	37	37

Statistics on electricity

Nepal

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	4829	6134	6189	9668	10827	13034
Combustible fuels	0	0	0	0	0	0
Hydro	4754	6061	6092	9534	10696	12847
Nuclear	..	..	..	..	..	..
Other	75	73	96	134	131	187
Main activity	4666	5942	5966	9441	10589	12796
Combustible fuels	0	0	0	0	0	0
Hydro	4663	5939	5949	9388	10536	12687
Nuclear	..	..	..	..	..	..
Other	3	3	17	53	53	109
Own use in electricity, CHP and heat plants	56	30	34	0	38	38
Net production	4773	6104	6155	9668	10789	12996
Imports	2813	1729	2806	1543	1833	1940
Exports	35	107	38	494	1346	1950
Losses	1149	1186	1504	1709	1693	*1763
Consumption	6396	6536	7415	8935	9100	*10351
Energy industries own use	..	..	..	..	..	..
By industry and construction	2422	2301	2816	3443	3576	3694
By transport	3	3	3	4	4	5
By households and other cons.	3971	4232	4596	5488	5520	*6652
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1224	1224	1382	2193	2687	3701
Combustible fuels	53	53	53	56	59	59
Hydro	1129	1129	1278	2082	2538	3471
Nuclear	..	..	..	..	..	..
Other	*41	*41	*50	55	89	171
Main activity	1060	1060	1174	1679	2141	3154
Combustible fuels	53	53	53	53	53	53
Hydro	1005	1005	1110	1604	2060	2991
Nuclear	..	..	..	..	..	..
Other	*1	*1	*10	22	27	109
Combustible fuel input	Terajoules					
Fuel oil	1	1	0	0	0	..
Total input	1	1	0	0	0	..
Total production	0	0	0	0	0	0
Estimated efficiency (% of production to input)	40	38	37	37	37	..

Statistics on electricity

Netherlands (Kingd. of the)

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	114380	121408	123278	122170	121573	121331
Combustible fuels	95965	99973	94787	88305	78541	67602
Hydro	72	74	46	88	50	69
Nuclear	3515	3910	4087	3828	4156	3985
Other	14828	17451	24357	29949	38825	49674
Main activity	87411	92352	88753	84934	84022	81119
Combustible fuels	73595	77022	69066	61866	56024	45402
Hydro	72	74	46	88	50	69
Nuclear	3515	3910	4087	3828	4156	3985
Other	10228	11346	15554	19151	23792	31662
Own use in electricity, CHP and heat plants	3539	3546	3440	4252	4299	3797
Net production	110841	117862	119838	117919	117274	117534
Imports	26755	20403	19773	20885	18544	19547
Exports	18785	19548	22433	20632	22811	25206
Losses	5334	5059	4744	4797	4869	5028
Consumption	113713	113385	111400	112602	109027	106634
Energy industries own use	6016	5898	5102	5347	5299	4899
By industry and construction	36189	35594	35670	35311	33842	31989
By transport	2164	2349	2300	2697	3344	3883
By households and other cons.	69343	69544	68327	69248	66542	65863
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	35000	37328	43885	48472	53710	60607
Combustible fuels	24848	24177	24261	24306	24385	24386
Hydro	37	37	37	38	38	38
Nuclear	512	512	512	512	512	512
Other	9603	12602	19075	23617	28775	35672
Main activity	24144	23947	26692	28586	30775	33714
Combustible fuels	18858	18167	17770	17772	17724	17712
Hydro	37	37	37	38	38	38
Nuclear	512	512	512	512	512	512
Other	4737	5231	8373	10265	12501	15452
Combustible fuel input	Terajoules					
Hard Coal	230853	155720	69325	126223	128339	77870
Biogas	5459	5386	5046	4985	4993	4490
Refinery gas	16261	17394	14463	14380	15931	15200
Natural gas	435511	512826	514819	404072	345983	331441
Coke-oven gas	2001	2073	1695	1632	1903	1587
Blast furnace gas	22803	21742	21104	22730	21649	16742
Fuelwood	*11563	*24727	*53148	*70588	*58074	*47149
Vegetal waste	*2622	*3385	*8349	*8285	*11628	*11725
Municipal waste	70915	69139	68623	72441	72789	66675
Industrial waste	1387	1459	1209	1190	1083	445
Others	486	775	362	635	512	522
Total input	799861	814625	758144	727161	662885	573845
Total production	345474	359901	341235	317898	282749	243367
Estimated efficiency (% of production to input)	43	44	45	44	43	42

Statistics on electricity

New Caledonia

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	3486	3334	3233	2910	3148	3418
Combustible fuels	3077	2876	2729	2256	2334	2562
Hydro	317	285	305	425	539	421
Nuclear	..	..	..	..	..	..
Other	92	173	199	229	276	435
Main activity	1409	1325	1290	1332	1419	1183
Combustible fuels	1009	887	815	732	677	502
Hydro	317	285	305	425	539	421
Nuclear	..	..	..	..	..	..
Other	83	154	169	175	203	260
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	3486	3334	3233	2910	3148	3418
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	65	61	67	66	56	62
Consumption	3421	3273	3166	2844	3092	3356
Energy industries own use	..	..	..	..	..	..
By industry and construction	2744	2604	2506	2177	2399	2680
By transport	..	..	..	..	..	..
By households and other cons.	677	669	660	667	694	676
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	974	1022	1047	1090	1170	1178
Combustible fuels	811	811	811	810	850	850
Hydro	78	78	78	81	81	81
Nuclear	..	..	..	..	..	..
Other	86	134	158	199	239	247
Main activity	*392	*434	*446	*471	500	500
Combustible fuels	*238	*238	*238	*238	238	238
Hydro	78	78	78	81	81	81
Nuclear	..	..	..	..	..	..
Other	75	117	129	153	181	181
Combustible fuel input	Terajoules					
Hard Coal	19181	21250	19185	15734	18500	17225
Gas-diesel oil	3675	1790	1600	2787	3190	3113
Fuel oil	15754	14445	13096	10296	10673	10642
Other kerosene	401	31	8	249	171	20
Other oil products	*140	*149	*134	*153	*116	*88
Other liquid biofuels	5	4	4	4	3	6
Total input	39157	37671	34026	29222	32652	31094
Total production	11077	10354	9824	8123	8403	9223
Estimated efficiency (% of production to input)	28	27	29	28	26	30

Statistics on electricity

New Zealand

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	44695	45147	44530	44613	44663	44662
Combustible fuels	8029	8859	9454	9035	6683	6223
Hydro	26252	25596	24264	24232	26274	26572
Nuclear	..	..	..	..	..	..
Other	10414	10693	10811	11345	11707	11867
Main activity	43183	43511	42968	42923	43014	43032
Combustible fuels	6731	7462	8158	7657	5413	5050
Hydro	26248	25592	24260	24228	26270	26568
Nuclear	..	..	..	..	..	..
Other	10204	10457	10549	11037	11331	11414
Own use in electricity, CHP and heat plants	1442	1558	1347	1341	1184	1174
Net production	43254	43590	43182	43271	43480	43488
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	2942	3001	2956	2901	3275	2953
Consumption	39968	40319	39441	39568	39038	39062
Energy industries own use	695	724	663	676	481	369
By industry and construction	13927	14105	13373	13082	13095	12534
By transport	94	110	100	98	193	275
By households and other cons.	25252	25381	25305	25712	25269	25884
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	9488	9521	9692	9965	9908	10373
Combustible fuels	2242	2242	2346	2346	2112	2363
Hydro	5435	5443	5443	5443	5502	5501
Nuclear	..	..	..	..	..	..
Other	1811	1836	1903	2176	2294	2508
Main activity	9111	9119	9263	9486	9352	9729
Combustible fuels	1987	1987	2097	2097	1863	2114
Hydro	5432	5440	5440	5440	5499	5499
Nuclear	..	..	..	..	..	..
Other	1692	1692	1726	1949	1990	2116
Combustible fuel input	Terajoules					
Brown Coal	9124	17697	18688	23815	7225	5101
Biogas	3021	3076	3130	3066	3074	3192
Gas-diesel oil	126	41	1434	307	87	54
Natural gas	49174	49552	53732	42911	41928	42892
Coke-oven gas	1941	2626	2454	2595	2326	1941
Blast furnace gas	5314	5492	4888	5593	5083	4813
Fuelwood	4156	3560	3578	3627	3302	*3320
Black liquor	13395	13394	13310	12992	12590	12396
Total input	86251	95438	101214	94906	75615	73708
Total production	28904	31891	34034	32527	24059	22403
Estimated efficiency (% of production to input)	34	33	34	34	32	30

Statistics on electricity

Nicaragua

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	4636	4576	3791	4213	4196	4525
Combustible fuels	2599	2815	1873	2197	2270	2612
Hydro	411	227	574	599	650	470
Nuclear	..	..	..	..	..	..
Other	1626	1534	1343	1417	1275	1444
Main activity	3901	3686	3013	3271	3296	3601
Combustible fuels	1864	1927	1098	1259	1374	1692
Hydro	411	227	574	599	650	470
Nuclear	..	..	..	..	..	..
Other	1626	1533	1340	1414	1272	1440
Own use in electricity, CHP and heat plants	403	479	418	471	525	538
Net production	4233	4096	3373	3742	3671	3988
Imports	201	434	1071	1005	1062	817
Exports	0	0	0	0	..	..
Losses	978	1089	1046	1110	839	972
Consumption	3594	3769	3653	3879	3998	3914
Energy industries own use	..	..	..	..	..	..
By industry and construction	1069	1092	1042	1194	1249	1223
By transport	..	..	..	..	..	..
By households and other cons.	2525	2677	2611	2684	2749	2691
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1482	1624	1626	1623	1638	1642
Combustible fuels	985	1107	1107	1101	1101	1101
Hydro	142	157	157	159	159	158
Nuclear	..	..	..	..	..	..
Other	355	360	362	363	378	383
Main activity	1305	1401	1401	1396	1409	1408
Combustible fuels	809	888	888	883	883	883
Hydro	142	157	157	158	158	157
Nuclear	..	..	..	..	..	..
Other	355	356	356	356	368	368
Combustible fuel input	Terajoules					
Biogas	..	75	71	92	92	84
Gas-diesel oil	516	509	328	495	1279	4635
Fuel oil	16483	17392	10454	11607	12116	13896
Bagasse	*15717	*16287	*14177	*15014	*15814	*14872
Vegetal waste	*348	*272	*306	*381	*515	*644
Total input	33064	34535	*25336	*27589	*29815	34132
Total production	9356	10133	6745	7910	8173	9403
Estimated efficiency (% of production to input)	28	29	27	29	27	28

Statistics on electricity

Niger

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	461	617	635	*636	*669	1110
Combustible fuels	447	593	610	*612	*644	1066
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	13	24	24	24	24	44
Main activity	439	547	477	*562	*552	948
Combustible fuels	437	535	465	*550	*541	916
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	12	12	12	11	32
Own use in electricity, CHP and heat plants	*19	*53	59	*26	*42	71
Net production	442	564	575	*610	*627	1039
Imports	1253	1057	1108	1122	1164	685
Exports	0	..	..	..	..	..
Losses	*238	313	330	*314	*325	287
Consumption	*1457	1307	1410	1417	1465	1425
Energy industries own use	*78	*68	113	*49	*69	60
By industry and construction	*387	219	207	194	163	157
By transport	..	..	..	..	..	..
By households and other cons.	*992	1020	1090	1174	1233	1208
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	305	420	421	421	552	585
Combustible fuels	291	406	406	406	502	502
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	14	14	15	15	50	83
Main activity	245	360	360	360	491	521
Combustible fuels	238	353	353	353	449	449
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	7	7	7	7	42	72
Combustible fuel input	Terajoules					
Brown Coal	2539	2390	2815	652	2515	2175
Crude oil	..	..	..	..	..	2278
Gas-diesel oil	*2064	2322	2468	*2580	*1720	3700
Fuel oil	..	687	*545	*638	*485	..
Liquefied petroleum gas	*572	907	*992	534	*605	442
Refinery gas	..	*731	*544	*594	*446	780
Other oil products	764	*683	*724	*725	*832	924
Natural gas	..	1444	1586	*2365	*1675	1400
Total input	5939	9164	9674	*8089	*8278	11698
Total production	1610	2136	2197	*2203	*2320	3836
Estimated efficiency (% of production to input)	27	23	23	27	28	33

Statistics on electricity

Nigeria

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	36633	36394	39557	36038	38866	40960
Combustible fuels	28899	27992	31184	28046	29511	31641
Hydro	7695	8344	8292	7943	9204	9107
Nuclear	..	..	..	..	..	..
Other	40	57	81	49	151	212
Main activity	19077	18010	17724	29698	15812	15273
Combustible fuels	11536	9833	9599	21917	6781	6322
Hydro	7538	8174	8123	7781	9017	8922
Nuclear	..	..	..	..	..	..
Other	2	2	2	..	14	29
Own use in electricity, CHP and heat plants	968	981	1052	1033	1049	1109
Net production	35665	35413	38505	35005	37817	39850
Imports	..	..	..	..	..	..
Exports	3003	2327	3009	2433	2317	2317
Losses	5044	5110	5482	5406	5482	5796
Consumption	30040	30763	31726	28526	33310	33954
Energy industries own use	229	242	239	191	165	151
By industry and construction	7138	7286	7679	3946	8168	8225
By transport	..	..	..	..	..	..
By households and other cons.	22673	23235	23809	24389	24976	25578
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*12321	11745	12094	13364	*13412	*14203
Combustible fuels	*10142	9539	9862	11103	*11121	*11121
Hydro	2151	2150	2150	2150	2150	2900
Nuclear	..	..	..	..	..	..
Other	28	55	81	111	140	181
Main activity	*9073	8486	8819	9925	*9929	*10689
Combustible fuels	*6962	6359	6682	7771	*7771	*7771
Hydro	2111	2110	2110	2110	2110	2860
Nuclear	..	..	..	..	..	..
Other	..	17	27	44	48	58
Combustible fuel input	Terajoules					
Natural gas	303600	290513	323344	290131	305484	327326
Total input	303600	290513	323344	290131	305484	327326
Total production	104035	100772	112264	100965	106238	113907
Estimated efficiency (% of production to input)	34	35	35	35	35	35

Statistics on electricity

Niue

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*4	*4	*4	*4	*4	*4
Combustible fuels	*3	*3	*3	*3	*4	*4
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Main activity	*4	*4	*4	*4	*4	*4
Combustible fuels	*3	*3	*3	*3	*4	*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	*4	*4	*4	*4	*4	*4
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	0	*1	0	0	0	0
Consumption	*3	*3	*3	*3	*4	*4
Energy industries own use	..	..	..	..	..	..
By industry and construction	*1	*1	*1	*1	*1	*1
By transport	..	..	..	..	..	..
By households and other cons.	*3	*3	*3	*3	*3	*3
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	2	3	3	3	3	3
Combustible fuels	2	2	2	2	2	2
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	1	1	1	1	1
Main activity	2	3	3	3	3	3
Combustible fuels	2	2	2	2	2	2
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	0	1	1	1	1	1
Combustible fuel input	Terajoules					
Gas-diesel oil	*34	*34	*34	*34	*36	*36
Total input	*34	*34	*34	*34	*36	*36
Total production	*12	*12	*12	*12	*13	*13
Estimated efficiency (% of production to input)	36	36	36	36	35	36

Statistics on electricity

North Macedonia

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	5607	5870	5347	5532	5933	6774
Combustible fuels	3696	4581	3929	3926	4389	4739
Hydro	1791	1164	1277	1452	1345	1623
Nuclear	..	..	..	..	..	..
Other	120	125	141	154	200	412
Main activity	5607	5870	5347	5532	5933	6774
Combustible fuels	3696	4581	3929	3926	4389	4739
Hydro	1791	1164	1277	1452	1345	1623
Nuclear	..	..	..	..	..	..
Other	120	125	141	154	200	412
Own use in electricity, CHP and heat plants	324	369	314	304	383	293
Net production	5283	5501	5033	5228	5551	6481
Imports	2297	6882	6734	7407	7074	1470
Exports	377	5054	4408	4930	5662	1319
Losses	995	979	1027	1041	972	956
Consumption	6208	6350	6333	6665	5991	5675
Energy industries own use	102	109	108	100	101	89
By industry and construction	1560	1620	1642	1715	1412	1335
By transport	12	14	13	14	12	0
By households and other cons.	4534	4606	4570	4835	4466	4250
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	1839	1851	1868	2093	2196	2520
Combustible fuels	1111	1112	1112	1322	1322	1326
Hydro	674	678	687	689	693	720
Nuclear	..	..	..	..	..	..
Other	54	61	69	82	181	474
Main activity	1839	1851	1868	2093	2196	2520
Combustible fuels	1111	1112	1112	1322	1322	1326
Hydro	674	678	687	689	693	720
Nuclear	..	..	..	..	..	..
Other	54	61	69	82	181	474
Combustible fuel input	Terajoules					
Brown Coal	32774	39673	35350	25034	34740	31555
Biogas	778	793	825	775	740	940
Fuel oil	548	690	1084	1544	6128	5452
Natural gas	6558	8034	9668	12928	8342	10764
Total input	40658	49190	46926	40280	49950	48711
Total production	13304	16492	14144	14132	15799	17061
Estimated efficiency (% of production to input)	33	34	30	35	32	35

Statistics on electricity

Northern Mariana Islands

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*390	*392	*293	*305	*308	*311
Combustible fuels	*390	*392	*290	*300	*303	*306
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	*3	*5	*5	*5
Main activity	*390	*392	*293	*305	*308	*311
Combustible fuels	*390	*392	*290	*300	*303	*306
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	*3	*5	*5	*5
Own use in electricity, CHP and heat plants	0	0	0	0	0	0
Net production	*390	*392	*293	*305	*308	*311
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*86	*86	*63	*66	*63	*68
Consumption	*304	*306	*230	*239	*245	*243
Energy industries own use	..	..	..	..	..	..
By industry and construction	..	..	..	..	..	..
By transport	..	..	..	..	..	..
By households and other cons.	*304	*306	*230	*239	*245	*243
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*63	*63	*65	68	68	68
Combustible fuels	*63	*63	*63	63	63	63
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	*2	*5	5	*6
Main activity	*63	*63	*65	68	68	68
Combustible fuels	*63	*63	*63	63	63	63
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	*2	*5	5	*6
Combustible fuel input	Terajoules					
Gas-diesel oil	*3900	*3920	*2900	*3000	*3030	*3060
Total input	*3900	*3920	*2900	*3000	*3030	*3060
Total production	*1404	*1411	*1044	*1080	*1091	*1102
Estimated efficiency (% of production to input)	36	36	36	36	36	36

Statistics on electricity

Norway

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	147097	134907	155196	157922	146731	154895
Combustible fuels	3169	3011	2441	1292	1918	2138
Hydro	139714	126030	142471	144368	129366	137975
Nuclear	..	..	..	..	..	..
Other	4214	5866	10284	12262	15447	14782
Main activity	144175	132185	153018	156739	144769	152548
Combustible fuels	584	631	635	600	593	608
Hydro	139714	126030	142471	144368	129366	137975
Nuclear	..	..	..	..	..	..
Other	3877	5525	9913	11770	14810	13965
Own use in electricity, CHP and heat plants	751	831	946	719	654	689
Net production	146346	134076	154249	157203	146077	154206
Imports	8340	12353	4496	8235	13271	13240
Exports	18489	12309	24968	25819	25792	30978
Losses	7564	6996	6351	7022	6658	7335
Consumption	127686	126269	126497	131616	126080	128007
Energy industries own use	10620	10062	10307	9361	11127	12684
By industry and construction	46757	46320	46841	49122	47893	45647
By transport	1207	1424	1767	2228	2914	3369
By households and other cons.	69102	68464	67582	70905	64146	66308
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	35416	36940	38880	40269	40479	40566
Combustible fuels	1073	1074	959	889	739	476
Hydro	32530	32797	33732	34075	34269	34291
Nuclear	..	..	..	..	..	..
Other	1813	3069	4189	5306	5471	5799
Main activity	34796	36268	38199	39652	39701	39630
Combustible fuels	521	522	402	439	289	186
Hydro	32530	32797	33732	34075	34269	34291
Nuclear	..	..	..	..	..	..
Other	1745	2949	4065	5138	5143	5153
Combustible fuel input	Terajoules					
Hard Coal	865	853	819	762	837	643
Biogas	130	134	57	17	12	10
Gas-diesel oil	232	171	174	150	77	130
Liquefied petroleum gas	12	12	10	39	22	27
Refinery gas	4507	3752	1639	5206	2337	..
Natural gas	15198	13988	10588	4067	7767	8883
Blast furnace gas	1247	1251	867	1019	1194	812
Fuelwood	*1550	*1847	*1750	*2383	*2452	*2945
Municipal waste	8861	9158	8867	8049	8117	8829
Other liquid biofuels	8	7	4	32	21	23
Others	..	..	..	1	3	..
Total input	32609	31173	24776	21725	22839	22300
Total production	11410	10840	8787	4651	6903	7696
Estimated efficiency (% of production to input)	35	35	35	21	30	35

Statistics on electricity

Oman

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	37718	37543	38429	41718	44472	47049
Combustible fuels	37702	37534	38322	40992	42511	45013
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	16	9	107	726	1962	2036
Main activity	37718	37543	38429	41718	44472	47049
Combustible fuels	37702	37534	38322	40992	42511	45013
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	16	9	107	726	1962	2036
Own use in electricity, CHP and heat plants	497	159	1326	1478	1335	1333
Net production	37221	37384	37103	40241	43137	45716
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	3674	3562	4005	4092	3724	3351
Consumption	33547	33796	33169	36148	39413	42365
Energy industries own use	..	..	..	..	..	..
By industry and construction	5169	5092	4975	6282	6094	6039
By transport	..	..	..	..	..	..
By households and other cons.	28379	28704	28194	29866	33320	36327
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	8450	11567	11960	11920	11571	11589
Combustible fuels	8442	11508	11798	11733	10867	10867
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	8	59	162	187	704	722
Main activity	8450	11567	11960	11920	11571	11589
Combustible fuels	8442	11508	11798	11733	10867	10867
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	8	59	162	187	704	722
Combustible fuel input	Terajoules					
Gas-diesel oil	11542	12308	12308	*12900	*13115	7988
Natural gas	316552	286348	277564	300178	295890	333928
Total input	328094	298657	289872	313078	309005	341916
Total production	135728	135121	137957	147572	153038	162046
Estimated efficiency (% of production to input)	41	45	48	47	50	47

Statistics on electricity

Pakistan

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	134818	144049	144435	128521	130525	137812
Combustible fuels	82533	90212	86550	64213	65445	68847
Hydro	38802	38936	35069	35273	35549	40017
Nuclear	9861	11090	17045	23857	24055	23155
Other	3622	3811	5771	5178	5476	5793
Main activity	132384	142511	141369	126948	127724	136665
Combustible fuels	80099	88674	83484	62640	62644	67700
Hydro	38802	38936	35069	35273	35549	40017
Nuclear	9861	11090	17045	23857	24055	23155
Other	3622	3811	5771	5178	5476	5793
Own use in electricity, CHP and heat plants	4147	13484	7275	5365	3188	3265
Net production	130671	130565	137160	123156	127337	134547
Imports	441	499	547	706	505	341
Exports	..	..	..	..	..	..
Losses	16765	23132	20281	23702	21873	23177
Consumption	109459	113546	116095	121298	110300	117071
Energy industries own use	..	..	..	..	..	..
By industry and construction	28760	29834	29954	31600	31138	31893
By transport	..	..	..	..	..	..
By households and other cons.	80699	83712	86141	89698	79162	85178
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	39885	40606	42166	40707	44824	46117
Combustible fuels	26800	27127	26316	24784	27979	29011
Hydro	9858	9912	10733	10756	10654	10654
Nuclear	1430	1770	2870	2870	3620	3620
Other	1797	1797	2247	2297	2571	2832
Main activity	38861	39629	41438	40075	44337	45646
Combustible fuels	25776	26150	25588	24152	27492	28540
Hydro	9858	9912	10733	10756	10654	10654
Nuclear	1430	1770	2870	2870	3620	3620
Other	1797	1797	2247	2297	2571	2832
Combustible fuel input	Terajoules					
Hard Coal	153818	280729	237867	333149	351257	*386611
Gas-diesel oil	1118	519	4230	10579	2649	2262
Fuel oil	*111948	*91800	93578	139689	*103334	*102254
Natural gas	*544249	*457492	*436277	*432333	311148	323008
Bagasse	*23208	*13464	*17064	*19776	*20155	*16989
Total input	*834341	*844003	*789017	935526	788543	*831124
Total production	297119	324763	311580	231167	235602	247849
Estimated efficiency (% of production to input)	36	38	39	25	30	30

Statistics on electricity

Palau

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*96	95	*96	*97	*97	*99
Combustible fuels	*92	91	*92	*93	*93	*95
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	*4	*4	*4	*4	*4	*4
Main activity	*86	83	*84	*85	*85	*87
Combustible fuels	*82	79	*80	*81	*81	*83
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	*91	90	*91	*92	*92	*94
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	*5	*5	*5	*5	*5	*5
Consumption	*86	*85	*86	*87	*87	*89
Energy industries own use	..	..	..	..	..	..
By industry and construction	*6	*6	*6	*6	*6	*6
By transport	..	..	..	..	..	..
By households and other cons.	*80	*79	*80	*81	*81	*83
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*40	*41	*41	*41	*41	*44
Combustible fuels	*39	*39	*39	*39	*39	*39
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	3	*3	*3	*3	*5
Main activity	*38	*39	*39	*39	*39	*42
Combustible fuels	*37	*37	*37	*37	*37	*37
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	2	3	*3	*3	*3	*5
Combustible fuel input	Terajoules					
Gas-diesel oil	*961	*939	*946	*968	*989	*1081
Total input	*961	*939	*946	*968	*989	*1081
Total production	*330	326	*331	*335	*335	*341
Estimated efficiency (% of production to input)	34	35	35	35	34	32

Statistics on electricity

Panama

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	11625	13667	13394	14289	14166	14625
Combustible fuels	2716	7423	4963	4522	4743	6632
Hydro	8065	5196	7502	8625	8116	6141
Nuclear	..	..	..	..	..	..
Other	844	1048	930	1142	1306	1852
Main activity	11189	11642	10936	11670	11516	12268
Combustible fuels	2513	5527	2685	2213	2396	4466
Hydro	7855	5096	7349	8342	7838	6043
Nuclear	..	..	..	..	..	..
Other	821	1019	901	1115	1282	1758
Own use in electricity, CHP and heat plants	580	1031	847	630	98	450
Net production	11046	12635	12547	13660	14068	14175
Imports	13	77	117	63	235	127
Exports	326	427	567	502	392	270
Losses	1404	1199	1165	1152	879	705
Consumption	9390	11073	11071	12193	12660	13389
Energy industries own use	8	8	7	7	6	8
By industry and construction	660	1885	2293	2802	2589	3254
By transport	41	54	70	80	82	83
By households and other cons.	8681	9127	8701	9304	9985	10045
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	4179	4140	4165	4108	4207	4140
Combustible fuels	1941	1851	1860	1575	1603	1407
Hydro	1779	1821	1822	1822	1821	1845
Nuclear	..	..	..	..	..	..
Other	459	468	483	711	783	889
Main activity	3795	3756	3771	3680	3740	3668
Combustible fuels	1617	1527	1527	1208	1207	1006
Hydro	1719	1761	1761	1761	1761	1784
Nuclear	..	..	..	..	..	..
Other	459	468	483	711	773	879
Combustible fuel input	Terajoules					
Hard Coal	4863	23137	24894	23906	23896	21300
Gas-diesel oil	877	925	464	1049	2838	3849
Fuel oil	6343	7191	1656	2222	4808	10254
Natural gas	10878	33835	18243	21785	10298	20468
Bagasse	3402	2573	2785	2682	2699	2432
Municipal waste	*270	*302	*447	*331	*326	*3
Total input	26633	67963	48491	51975	44864	58307
Total production	9779	26721	17865	16280	17076	23876
Estimated efficiency (% of production to input)	37	39	37	31	38	41

Statistics on electricity

Papua New Guinea

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	*4037	*4215	*4207	*4456	*4887	*4956
Combustible fuels	*3079	*3104	*3096	*3344	*3939	*3950
Hydro	830	1011	1011	1011	847	*900
Nuclear	..	..	..	..	..	..
Other	128	100	101	101	102	*106
Main activity	1374	1463	1473	1555	1838	*1851
Combustible fuels	753	752	763	844	1239	*1250
Hydro	621	711	711	711	598	*600
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	1	*1
Own use in electricity, CHP and heat plants	*1	*5	*7	*11	*17	*21
Net production	*4036	*4210	*4200	*4445	*4870	*4935
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	384	372	361	361	361	*361
Consumption	3652	3837	3844	4084	4509	*4574
Energy industries own use	..	..	..	..	..	..
By industry and construction	2778	3056	2650	2890	3315	*3294
By transport	..	..	..	..	..	..
By households and other cons.	*874	*781	1194	1194	1194	*1280
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	977	983	1010	1056	1059	1131
Combustible fuels	645	656	701	746	746	752
Hydro	275	275	256	256	259	325
Nuclear	..	..	..	..	..	..
Other	57	52	52	54	54	54
Main activity	479	490	517	562	565	636
Combustible fuels	279	290	335	380	380	386
Hydro	200	200	181	181	184	250
Nuclear	..	..	..	..	..	..
Other	0	0	0	0	0	0
Combustible fuel input	Terajoules					
Biogas	*300	*270	*275	*285	*285	*285
Gas-diesel oil	6824	6155	6500	6400	6200	*6800
Fuel oil	27047	24535	20000	21000	21000	*21500
Natural gas	7443	6885	11222	10200	*10700	*11500
Bagasse	*62	*62	*62	*62	*62	*62
Total input	41676	37906	38059	37947	38247	*40147
Total production	*11083	*11173	*11145	*12039	*14180	*14220
Estimated efficiency (% of production to input)	27	29	29	32	37	35

Statistics on electricity

Paraguay

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	59212	49448	46602	40805	44110	53042
Combustible fuels	2	2	231	231	230	230
Hydro	59211	49446	46371	40574	43879	52812
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	59212	49448	46373	40576	43881	52813
Combustible fuels	2	2	2	2	1	1
Hydro	59211	49446	46371	40574	43879	52812
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	483	390	422	280	300	355
Net production	58730	49058	46180	40525	43810	52687
Imports	..	..	..	..	..	..
Exports	42205	31748	28005	21719	23955	30390
Losses	4021	4470	4227	4871	5193	6303
Consumption	12504	12840	13948	13935	14662	15994
Energy industries own use	..	..	..	..	..	..
By industry and construction	2436	2391	2608	2680	2690	2766
By transport	..	..	..	..	..	..
By households and other cons.	10068	10449	11340	11255	11972	13228
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	8761	8761	8841	8841	8842	8875
Combustible fuels	1	1	81	81	81	114
Hydro	8760	8760	8760	8760	8760	8760
Nuclear	..	..	..	..	..	..
Other	..	..	0	0	1	1
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	21	24	22	23	15	13
Fuelwood	..	..	723	723	723	723
Bagasse	..	..	556	556	556	556
Vegetal waste	..	..	68	68	68	68
Total input	21	24	1368	1369	1361	1359
Total production	6	7	831	831	829	828
Estimated efficiency (% of production to input)	27	31	61	61	61	61

Statistics on electricity

Peru

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	54982	57038	52803	57483	59807	62193
Combustible fuels	21946	23088	19624	22847	27216	29669
Hydro	30737	31462	30510	31926	29744	29088
Nuclear	..	..	..	..	..	..
Other	2299	2488	2670	2710	2847	3436
Main activity	52368	54464	50673	55554	57830	60179
Combustible fuels	20125	21261	18169	21620	25897	28324
Hydro	29989	30769	29895	31294	29164	28510
Nuclear	..	..	..	..	..	..
Other	2253	2434	2608	2640	2769	3345
Own use in electricity, CHP and heat plants	743	857	780	1024	1037	981
Net production	54239	56182	52024	56459	58770	61212
Imports	21	60	37	43	32	13
Exports	..	..	..	..	..	..
Losses	5969	6411	6414	6718	6639	6791
Consumption	48292	49831	45647	49784	52159	54410
Energy industries own use	..	..	..	..	..	..
By industry and construction	27832	28695	25596	28934	30595	31636
By transport	60	75	77	78	80	84
By households and other cons.	20401	21061	19974	20772	21484	22689
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	15214	15162	15229	15340	15760	16362
Combustible fuels	9154	9062	9072	9131	9420	9401
Hydro	5363	5397	5417	5514	5514	5544
Nuclear	..	..	..	..	..	..
Other	697	703	740	696	826	1417
Main activity	13651	13650	13790	13861	14248	14842
Combustible fuels	7762	7723	7807	7782	8039	8010
Hydro	5232	5266	5286	5384	5384	5414
Nuclear	..	..	..	..	..	..
Other	657	661	698	696	826	1417
Combustible fuel input	Terajoules					
Hard Coal	4735	5662	5075	4623	4121	3757
Biogas	484	576	504	700	667	604
Gas-diesel oil	7825	6518	1815	1391	3995	9102
Fuel oil	5821	6198	3625	3311	3371	3723
Natural gas	168231	177697	150433	178087	208340	224560
Bagasse	13390	14490	14183	14496	15207	16899
Biodiesel	391	343	96	73	210	479
Total input	200877	211485	175730	202680	235911	259125
Total production	79005	83119	70645	82249	97977	106810
Estimated efficiency (% of production to input)	39	39	40	41	42	41

Statistics on electricity

Philippines

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	99782	106057	101773	106131	111533	118004
Combustible fuels	77544	85036	81408	84173	88154	93134
Hydro	9401	8043	7209	9202	10102	10287
Nuclear	..	..	..	..	..	..
Other	12837	12979	13156	12756	13277	14582
Main activity	98682	105025	100513	104684	110218	116624
Combustible fuels	76461	84021	80166	82743	86856	91754
Hydro	9384	8026	7192	9185	10085	10287
Nuclear	..	..	..	..	..	..
Other	12837	12979	13156	12756	13277	14582
Own use in electricity, CHP and heat plants	8148	8874	8788	8746	9507	10403
Net production	91634	97184	92985	97386	102026	107601
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	9007	9994	9742	9969	10693	11793
Consumption	82618	87118	83243	88636	91333	95808
Energy industries own use	..	..	..	..	..	..
By industry and construction	27587	28194	25566	27623	28844	29493
By transport	105	106	76	108	118	145
By households and other cons.	54925	58818	57601	60905	62371	66170
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	24464	26187	26899	24639	28259	28892
Combustible fuels	17480	19135	19713	17893	20605	21045
Hydro	3717	3776	3795	3532	3745	3815
Nuclear	..	..	..	..	..	..
Other	3267	3276	3390	3214	3909	4032
Main activity	23815	25531	26250	23990	27632	28291
Combustible fuels	16847	18495	19080	17260	19994	20460
Hydro	3701	3760	3779	3516	3729	3799
Nuclear	..	..	..	..	..	..
Other	3267	3276	3390	3214	3909	4032
Combustible fuel input	Terajoules					
Brown Coal	575508	632054	657530	701340	717166	862043
Gas-diesel oil	16473	17931	12780	9576	27232	17037
Fuel oil	15013	16148	9223	7825	8751	13150
Natural gas	157703	161726	145863	128016	119962	117024
Bagasse	15094	14144	17311	16077	18084	19232
Municipal waste	543	634	467	274	609	720
Biodiesel	321	346	226	391	548	342
Total input	780654	842984	843401	863499	892353	1029548
Total production	279158	306131	293069	303024	317355	335284
Estimated efficiency (% of production to input)	36	36	35	35	36	33

Statistics on electricity

Poland

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	170039	163989	158043	179631	179748	167362
Combustible fuels	154428	145269	137254	156279	148579	127848
Hydro	2387	2665	2937	3101	3018	3734
Nuclear	..	..	..	..	..	..
Other	13224	16055	17852	20252	28151	35780
Main activity	155193	146774	139247	160634	157686	142448
Combustible fuels	140010	129006	120513	141302	134657	113086
Hydro	2384	2662	2934	3099	3017	3733
Nuclear	..	..	..	..	..	..
Other	12799	15107	15800	16234	20012	25629
Own use in electricity, CHP and heat plants	14780	12626	11892	12830	12656	10695
Net production	155260	151363	146151	166801	167092	156667
Imports	13816	17868	20624	15100	15238	15140
Exports	8121	7245	7357	14212	16915	11403
Losses	8894	8951	9995	9250	10427	10340
Consumption	152060	153035	149422	158438	154987	150064
Energy industries own use	11591	12623	12101	14750	15131	16736
By industry and construction	56424	56675	55272	56307	53184	42082
By transport	3469	3413	3174	3392	3502	3729
By households and other cons.	80575	80323	78876	83989	83169	87517
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	43046	43440	49368	52834	55835	61263
Combustible fuels	34314	33638	36715	36053	33092	33038
Hydro	2391	2397	2400	2398	2407	2410
Nuclear	..	..	..	..	..	..
Other	6340	7405	10254	14383	20337	25815
Main activity	39377	38760	42336	42302	40666	42589
Combustible fuels	31220	30526	33638	32937	29780	29709
Hydro	2391	2397	2399	2397	2406	2410
Nuclear	..	..	..	..	..	..
Other	5766	5838	6298	6967	8479	10470
Combustible fuel input	Terajoules					
Hard Coal	944114	875581	788395	926272	872891	717153
Brown Coal	483381	395678	368363	433426	442510	326428
Biogas	8582	8623	9597	9655	10246	11241
Fuel oil	12711	12489	13487	14571	16923	14743
Natural gas	102753	117539	135750	131214	96168	137039
Coke-oven gas	23502	22651	18713	22250	19369	17089
Blast furnace gas	16215	13887	11370	11756	11235	9600
Fuelwood	*6820	*6683	*5333	*24336	*31126	*21371
Vegetal waste	*48202	*60495	*68433	*43429	*31368	*45428
Municipal waste	8918	11039	12170	12037	12891	12171
Others	5168	4612	4961	4856	5079	4168
Total input	1660366	1529276	1436573	1633800	1549805	1316431
Total production	555940	522968	494115	562603	534885	460253
Estimated efficiency (% of production to input)	33	34	34	34	35	35

Statistics on electricity

Portugal

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	59636	53154	53078	50980	48808	49043
Combustible fuels	32155	27687	25214	21894	23011	15662
Hydro	13628	10243	13633	13455	8839	14868
Nuclear	..	..	..	..	..	..
Other	13853	15225	14231	15631	16958	18513
Main activity	51312	44477	44201	42485	41133	41908
Combustible fuels	24341	19689	17319	14461	16822	10674
Hydro	13610	10225	13615	13440	8829	14854
Nuclear	..	..	..	..	..	..
Other	13362	14563	13267	14584	15482	16380
Own use in electricity, CHP and heat plants	1439	969	800	617	647	579
Net production	58197	52185	52278	50362	48161	48465
Imports	5668	8099	7553	9544	12315	13656
Exports	8325	4700	6097	4791	3061	3423
Losses	5060	4948	4501	4942	5000	4839
Consumption	50480	50637	49166	50100	52414	53858
Energy industries own use	2521	2758	2912	2779	3750	4318
By industry and construction	16397	16696	16067	16629	17014	16661
By transport	491	494	430	472	498	584
By households and other cons.	31071	30690	29757	30220	31152	32295
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	21233	21665	21783	21596	23020	24402
Combustible fuels	8080	8160	8163	6987	6186	6121
Hydro	7236	7262	7241	7255	8189	8187
Nuclear	..	..	..	..	..	..
Other	5917	6243	6379	7355	8645	10095
Main activity	18972	19204	19213	18854	19882	20509
Combustible fuels	6208	6281	6278	5098	4525	4525
Hydro	7230	7256	7235	7249	8183	8180
Nuclear	..	..	..	..	..	..
Other	5534	5667	5700	6507	7175	7804
Combustible fuel input	Terajoules					
Biogas	3127	3068	3168	3349	3105	3043
Gas-diesel oil	740	697	698	687	729	683
Fuel oil	8647	9279	8660	8246	8815	9439
Refinery gas	525	628	797	1764	1128	686
Natural gas	133961	146170	147715	130247	135975	85216
Fuelwood	*18083	*21304	*25863	*28563	*30214	*30475
Municipal waste	8120	8666	8341	8867	8513	7796
Industrial waste	128	124	122	170	119	81
Biodiesel	41	40	40	49	47	42
Black liquor	*9138	*8413	*8761	*9793	*10163	*7997
Others	112417	52058	28657	9427	..	..
Total input	294928	250447	232823	201161	198807	145458
Total production	115758	99674	90772	78817	82839	56384
Estimated efficiency (% of production to input)	39	40	39	39	42	39

Statistics on electricity

Puerto Rico

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	..	..	..	..	..	..
Combustible fuels	..	..	..	..	..	..
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Main activity	..	..	..	..	..	..
Combustible fuels	..	..	..	..	..	..
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	..
Own use in electricity, CHP and heat plants	..	..	..	..	..	..
Net production	..	..	..	..	..	..
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	..	..	..	..	..	..
Consumption	16375	16077	16035	16269	15683	16654
Energy industries own use	..	..	..	..	..	..
By industry and construction	2128	2048	1910	1853	1768	1684
By transport	..	..	..	..	..	..
By households and other cons.	14246	14029	14126	14416	13915	14970
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	5830	6173	6107	6107	*6106	*6104
Combustible fuels	5466	5808	5742	5742	*5742	*5742
Hydro	99	99	99	98	98	98
Nuclear	..	..	..	..	..	..
Other	266	267	267	*267	*266	*264
Main activity	5770	6113	6047	6047	*6046	*6044
Combustible fuels	5406	5748	5682	5682	*5682	*5682
Hydro	99	99	99	98	98	98
Nuclear	..	..	..	..	..	..
Other	266	267	267	*267	*266	*264
Combustible fuel input	Terajoules					
Total input	..	..	..	..	..	..
Total production	..	..	..	..	..	..
Estimated efficiency (% of production to input)	..	..	..	..	..	..

Statistics on electricity

Qatar

Item	2018	2019	2020	2021	2022	2023
Production, trade and consumption	Million kilowatt-hours					
Total main activity and autoproducer	47913	49873	49259	51641	54623	56249
Combustible fuels	47913	49873	49259	51641	54029	54367
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	594	1882
Main activity	1533	1930	2759	1637	2706	3646
Combustible fuels	1533	1930	2759	1637	2112	1764
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	594	1882
Own use in electricity, CHP and heat plants	3259	3440	3434	3312	3298	3351
Net production	44654	46432	45825	48329	51325	52898
Imports	..	..	..	..	..	..
Exports	..	..	..	..	..	..
Losses	2786	2772	2774	2925	3121	3226
Consumption	*41868	*43660	43051	45404	48204	49669
Energy industries own use	..	..	..	..	..	..
By industry and construction	12197	12124	10465	10967	11818	12118
By transport	..	..	..	..	4	4
By households and other cons.	*29671	*31536	32586	34437	36382	37546
Net installed capacity	Thousand kilowatts					
Total main activity and autoproducer	*10590	*10590	*10590	10576	10574	*11396
Combustible fuels	*10590	*10590	*10590	10576	10574	*10591
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	805
Main activity	*1553	*1553	*1553	1553	1553	*2358
Combustible fuels	*1553	*1553	*1553	1553	1553	*1553
Hydro	..	..	..	..	..	..
Nuclear	..	..	..	..	..	..
Other	..	..	..	..	..	805
Combustible fuel input	Terajoules					
Natural gas	452056	472908	473104	487126	512466	513125
Total input	452056	472908	473104	487126	512466	513125
Total production	172487	179542	177332	185909	194505	195721
Estimated efficiency (% of production to input)	38	38	37	38	38	38