

ELECTRICITY PROFILES

Statistics on electricity
Afghanistan

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

Statistics on electricity

Albania

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

Statistics on electricity
Algeria

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

Statistics on electricity

American Samoa

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

Statistics on electricity

Andorra

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

Statistics on electricity
Angola

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

Statistics on electricity
Anguilla

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

Statistics on electricity

Antigua and Barbuda

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

Statistics on electricity
Argentina

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

Statistics on electricity

Armenia

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

Statistics on electricity

Aruba

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

Statistics on electricity

Australia

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

Statistics on electricity

Austria

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

Statistics on electricity

Azerbaijan

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

Statistics on electricity

Bahamas

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

Statistics on electricity

Bahrain

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

Statistics on electricity
Bangladesh

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

Statistics on electricity

Barbados

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

Statistics on electricity

Belarus

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

Statistics on electricity

Belgium

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

Statistics on electricity

Belize

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

Statistics on electricity

Benin

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

Statistics on electricity

Bermuda

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

Statistics on electricity

Bhutan

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

Statistics on electricity
Bolivia (Plur. State of)

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

Statistics on electricity

Bonaire, St Eustatius, Saba

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

Statistics on electricity
Bosnia and Herzegovina

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

Statistics on electricity
Botswana

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

Statistics on electricity

Brazil

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

Statistics on electricity

British Virgin Islands

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

Statistics on electricity
Brunei Darussalam

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

Statistics on electricity
Bulgaria

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

Statistics on electricity

Burkina Faso

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

Statistics on electricity

Burundi

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