

Net installed capacity of electric plants - by type

Megawatts

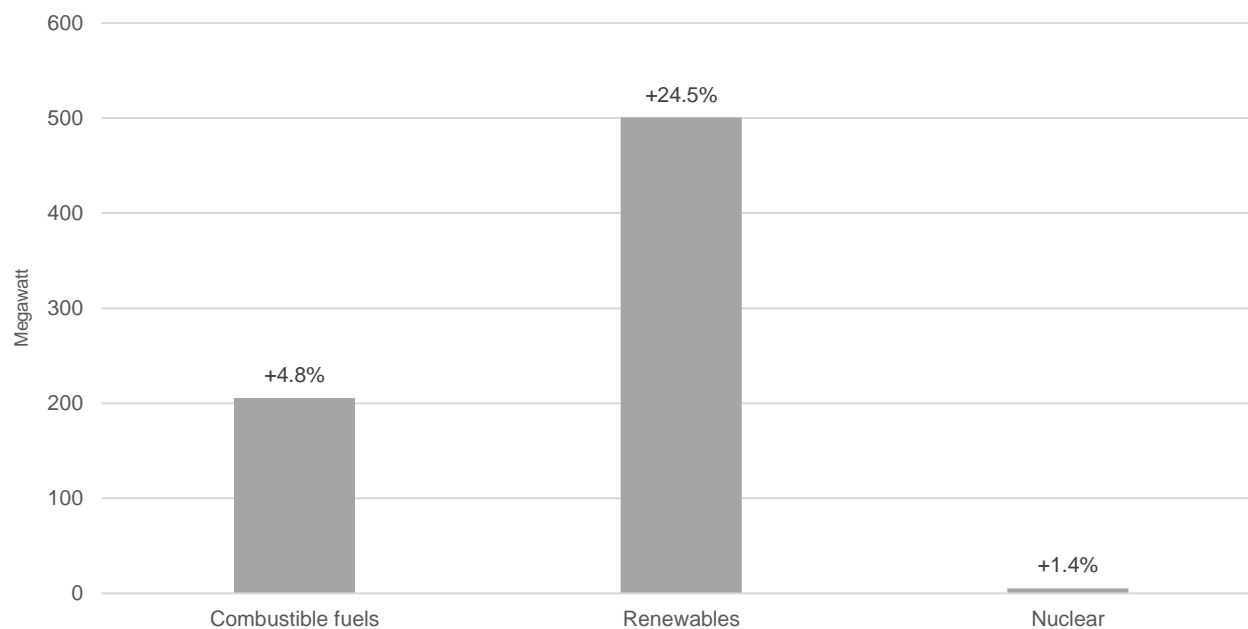
Table Notes

Electricity capacity broken down by source, and main activity producers against autoproducers. For total producers, **Other** refers to geothermal, tide, wave, marine and other non-specified net installed capacity. For autoproducers, **Other** refers to nuclear (if any), wind, solar, geothermal, tide, wave, marine and other non-specified net installed capacity. For main activity producers, **Other** refers to wind, solar, geothermal, tide, wave, marine and other non-specified net installed capacity.

For Austria data are given in gross maximum capacity.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description /classification, and xvi to xvii for the descriptions of relevant flows.

Figure 73: Change in net installed capacity of electricity generating plants* by source, 2016-2019



* Renewable includes capacity from hydro, wind, solar and other sources

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Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
World	2016	6,686,743	4,243,796	1,240,405	399,333	473,794	301,640	27,776
	2017	6,889,456	4,275,751	1,265,367	398,782	519,720	399,730	30,106
	2018	7,173,361	4,393,172	1,285,209	406,291	567,648	486,810	34,231
	2019	7,398,116	4,449,334	1,302,836	404,823	624,429	581,338	35,356
Africa	2016	195,079	152,367	32,630	1,860	4,660	2,880	682
	2017	210,042	163,918	35,159	1,940	4,790	3,545	689
	2018	225,252	176,091	36,204	1,940	5,474	4,879	664
	2019	234,211	183,064	36,528	1,940	5,729	6,040	911
Algeria	2016	19,031	18,549	228	..	10	244	..
	2017	19,555	18,892	228	..	10	425	..
	2018	21,166	20,480	228	..	10	448	..
	2019	*21,653	*20,967	228	..	10	448	..
Angola	2016	*2,886	*1,284	*1,589	..	..	13	..
	2017	*4,422	*2,067	*2,342	..	..	13	..
	2018	5,010	*2,298	2,699	..	..	13	..
	2019	*6,156	*3,444	2,699	..	..	13	..
Benin	2016	*381	*312	*66	..	..	3	..
	2017	*381	*312	*66	..	..	3	..
	2018	*381	*312	*66	..	..	3	..
	2019	*508	*439	*66	..	..	3	..
Botswana	2016	621	620	..	..	..	1	..
	2017	753	752	..	..	..	1	..
	2018	796	795	..	..	..	1	..
	2019	761	760	..	..	..	1	..
Burkina Faso	2016	325	293	32	..	..	..	..
	2017	329	293	32	..	..	*4	..
	2018	349	293	32	..	..	*24	..
	2019	390	295	32	..	..	62	..
Burundi	2016	64	*9	51	..	..	4	..
	2017	70	*17	48	..	..	5	..
	2018	87	34	48	..	..	5	..
	2019	87	*34	48	..	..	5	..
Cabo Verde	2016	*169	*136	..	..	26	8	..
	2017	*200	*166	..	..	27	8	..
	2018	*209	*169	..	..	*31	*9	..
	2019	*221	*181	..	..	*31	*9	..
Cameroon	2016	*1,944	*1,200	*732	..	..	*12	..
	2017	2,054	*1,265	777	..	..	*12	..
	2018	1,669	*918	732	..	..	*19	..
	2019	1,669	*918	732	..	..	*19	..
Central African Rep.	2016	*44	*19	*25	..	..	0	..
	2017	*44	*19	*25	..	..	0	..
	2018	*44	*19	*25	..	..	0	..
	2019	*44	*19	*25	..	..	0	..
Chad	2016	*86	*86	..	..	..	..	..
	2017	*86	*86	..	..	..	..	..
	2018	*86	*86	..	..	..	..	..
	2019	*86	*86	..	..	..	..	..
Comoros	2016	*27	*26	1	..	..	..	..
	2017	*35	*34	1	..	..	..	..
	2018	*35	*34	1	..	..	..	..
	2019	*35	*34	1	..	..	..	..
Congo	2016	*600	*391	*209	0	..
	2017	*606	*391	214	1	..
	2018	*606	*391	214	1	..
	2019	*606	*391	214	1	..

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Total	Autoproducers			Main activity producers				
	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
601,109	472,776	19,421	108,912	6,085,635	3,771,020	1,220,984	399,333	694,298
572,201	430,580	19,243	122,378	6,317,256	3,845,171	1,246,125	398,782	827,178
630,428	471,145	21,137	138,145	6,542,933	3,922,027	1,264,071	406,291	950,544
674,660	494,809	21,295	158,556	6,723,456	3,954,525	1,281,541	404,823	1,082,567
26,267	21,188	700	4,379	168,813	131,179	31,930	1,860	3,844
24,677	19,299	683	4,694	185,365	144,619	34,476	1,940	4,331
28,006	21,642	705	5,659	197,246	154,449	35,499	1,940	5,358
28,160	22,148	750	5,261	206,052	160,915	35,778	1,940	7,418
4,314	4,314	..	..	14,717	14,235	228	..	254
4,314	4,314	..	..	15,241	14,578	228	..	435
6,079	6,079	..	..	15,087	14,401	228	..	458
*6,567	*6,567	..	..	*15,086	*14,400	228	..	458
*217	*217	..	..	*2,669	*1,067	*1,589	..	13
*250	*250	..	..	*4,172	*1,817	*2,342	..	13
*250	*250	..	..	4,760	*2,048	2,699	..	13
*300	*300	..	..	*5,856	*3,144	2,699	..	13
*45	*45	..	..	*336	*267	*66	..	3
*45	*45	..	..	*336	*267	*66	..	3
*45	*45	..	..	*336	*267	*66	..	3
*45	*45	..	..	*463	*394	*66	..	3
20	20	..	..	601	600	..	..	1
20	20	..	..	733	732	..	..	1
..	..	..	..	796	795	..	..	1
..	..	..	..	761	760	..	..	1
..	..	..	..	325	293	32	..	..
..	..	..	..	329	293	32	..	*4
..	..	..	..	349	293	32	..	*24
..	..	..	..	390	295	32	..	62
*2	*2	..	..	62	*7	51	..	4
*3	*3	..	..	67	*14	48	..	5
*3	*3	..	..	84	31	48	..	5
*3	*3	..	..	84	*31	48	..	5
*1	*1	..	..	*168	*135	..	..	33
*1	*1	..	..	*200	*165	..	..	35
*1	*1	..	..	*209	*168	..	..	*40
*1	*1	..	..	*221	*181	..	..	*40
*650	*650	..	..	*1,294	*550	*732	..	*12
*650	*650	..	..	1,404	615	777	..	*12
*650	*650	..	..	1,019	268	732	..	*19
*650	*650	..	..	1,019	268	732	..	*19
..	..	..	..	*44	*19	*25	..	0
..	..	..	..	*44	*19	*25	..	0
..	..	..	..	*44	*19	*25	..	0
..	..	..	..	*44	*19	*25	..	0
..	..	..	..	*86	*86	..	..	..
..	..	..	..	*86	*86	..	..	..
..	..	..	..	*86	*86	..	..	..
..	..	..	..	*86	*86	..	..	..
1	..	1	..	*26	*26	..	..	..
1	..	1	..	*34	*34	..	..	..
1	..	1	..	*34	*34	..	..	..
1	..	1	..	*34	*34	..	..	..
*350	*350	*250	*41	*209	..	0
*350	*350	256	*41	214	..	1
*350	*350	256	*41	214	..	1
*350	*350	256	*41	214	..	1

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Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Côte d'Ivoire	2016	1,914	1,305	604	..	..	5	..
	2017	2,203	1,316	879	..	..	8	..
	2018	2,192	1,305	879	..	..	8	..
	2019	2,233	1,346	879	..	..	8	..
Dem. Rep. of the Congo	2016	*2,677	*135	*2,542	..	..	..	..
	2017	3,120	122	2,998	..	..	..	..
	2018	3,179	155	3,005	..	..	19	..
	2019	*3,190	*155	*3,015	..	..	20	..
Djibouti	2016	130	130	..	..	..	..	..
	2017	130	130	..	..	..	..	..
	2018	*130	*130	..	..	..	..	..
	2019	*130	*130	..	..	..	..	..
Egypt	2016	40,905	37,218	2,800	..	747	140	..
	2017	47,056	43,369	2,800	..	747	140	..
	2018	56,574	52,585	2,832	..	967	190	..
	2019	58,353	53,394	2,832	..	1,127	1,000	..
Equatorial Guinea	2016	349	222	127	..	..	..	..
	2017	554	222	327	..	..	5	..
	2018	*554	*222	*327	..	..	*5	..
	2019	*554	*222	*327	..	..	*5	..
Eritrea	2016	*161	*159	..	..	1	*1	..
	2017	*216	*205	..	..	1	*10	..
	2018	*226	*205	..	..	1	*20	..
	2019	*226	*205	..	..	1	*20	..
Eswatini	2016	*188	*115	73	..	..	..	..
	2017	*188	*115	*73	..	..	0	..
	2018	192	119	*73	..	..	0	..
	2019	193	119	*73	..	..	1	..
Ethiopia	2016	4,289	136	3,808	..	324	14	7
	2017	4,298	141	3,814	..	324	12	7
	2018	4,297	141	3,814	..	324	11	7
	2019	4,300	141	3,817	..	324	11	7
Gabon	2016	523	352	170	..	..	*1	..
	2017	533	359	173	..	..	*1	..
	2018	751	418	332	..	..	*1	..
	2019	*784	*451	332	..	..	*1	..
Gambia	2016	*121	*117	..	..	1	2	..
	2017	*121	*118	..	..	1	2	..
	2018	*126	*123	..	..	1	*2	..
	2019	*137	*134	..	..	1	*2	..
Ghana	2016	4,005	2,402	1,580	..	..	23	0
	2017	4,609	3,006	1,580	..	..	23	0
	2018	5,099	3,476	1,580	..	..	43	0
	2019	5,382	3,759	1,580	..	..	43	0
Guinea	2016	593	226	367	..	..	..	..
	2017	610	*243	367	..	..	..	..
	2018	615	*248	367	..	..	..	..
	2019	621	*254	367	..	..	..	..
Guinea-Bissau	2016	*27	*27	..	..	..	..	..
	2017	*27	*26	..	..	..	1	..
	2018	*27	*26	..	..	..	1	..
	2019	*28	*27	..	..	..	1	..
Kenya	2016	2,255	786	798	..	26	1	644
	2017	2,271	766	826	..	26	1	652
	2018	3,043	1,209	821	..	336	51	627
	2019	3,155	1,113	826	..	336	51	828

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Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
*23	*23	..	..	1,891	1,282	604	..	5
*23	*23	..	..	2,180	1,293	879	..	8
*23	*23	..	..	2,169	1,282	879	..	8
*23	*23	..	..	2,210	1,323	879	..	8
*567	*25	*542	..	*2,110	*110	*2,000	..	..
581	93	488	..	2,539	29	2,510	..	..
601	123	478	..	2,578	32	2,527	..	19
611	*123	488	..	*2,579	*32	*2,527	..	20
..	..	..	..	130	130	..	..	..
..	..	..	..	130	130	..	..	..
..	..	..	..	*130	*130	..	..	..
..	..	..	..	*130	*130	..	..	..
2,048	2,048	..	..	38,857	35,170	2,800	..	887
2,048	2,048	..	..	45,008	41,321	2,800	..	887
2,048	2,048	..	..	54,526	50,537	2,832	..	1,157
2,048	2,048	..	..	56,305	51,346	2,832	..	2,127
..	..	..	..	349	222	127	..	..
..	..	..	..	554	222	327	..	5
..	..	..	..	*554	*222	*327	..	*5
..	..	..	..	*554	*222	*327	..	*5
*10	*10	..	..	*151	*149	..	..	2
*10	*10	..	..	*206	*195	..	..	*11
*10	*10	..	..	*216	*195	..	..	*21
*10	*10	..	..	*216	*195	..	..	*21
*110	*106	*4	..	79	10	69	..	..
*110	*106	*4	0	*79	*10	*69	..	..
113	109	*4	0	*79	*10	*69	..	..
113	109	*4	0	*79	*10	*69	..	1
*37	*37	..	..	4,252	99	3,808	..	345
*37	*37	..	..	4,261	104	3,814	..	343
*37	*37	..	..	4,260	104	3,814	..	342
*37	*37	..	..	4,263	104	3,817	..	342
*71	*70	..	*1	452	282	170	..	..
*73	*70	*2	*1	460	289	171	..	..
88	85	*2	*1	663	333	330	..	..
*88	*85	*2	*1	*696	*366	330	..	..
*35	*35	..	..	*86	*82	..	..	3
*36	*36	..	..	*86	*82	..	..	3
*36	*36	..	..	*90	*87	..	..	*3
*36	*36	..	..	*101	*98	..	..	*3
*210	*210	..	..	3,795	2,192	1,580	..	23
*210	*210	..	..	4,399	2,796	1,580	..	23
*210	*210	..	..	4,889	3,266	1,580	..	43
*210	*210	..	..	5,172	3,549	1,580	..	43
150	150	..	..	444	77	367	..	..
*150	*150	..	..	460	*93	367	..	..
*148	*148	..	..	467	*100	367	..	..
*150	*150	..	..	471	*104	367	..	..
*5	*5	..	..	*21	*21	..	..	..
*6	*6	..	..	*22	*21	..	..	1
*5	*5	..	..	*22	*21	..	..	1
*5	*5	..	..	*22	*21	..	..	1
..	2,255	786	798	..	671
..	2,271	766	826	..	679
364	364	2,679	845	821	..	1,014
364	364	2,791	749	826	..	1,216

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Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Lesotho	2016	81	*1	80	..	..	0	..
	2017	75	*1	74	..	..	0	..
	2018	75	1	74	..	..	0	..
	2019	75	1	74	..	..	0	..
Liberia	2016	*107	*98	*9	..	..	0	..
	2017	*111	*100	*9	..	..	*2	..
	2018	*195	*100	*92	..	..	*3	..
	2019	*195	*100	*92	..	..	*3	..
Libya	2016	10,249	10,244	..	..	..	5	..
	2017	10,243	10,238	..	..	..	5	..
	2018	10,516	10,511	..	..	..	5	..
	2019	10,516	10,511	..	..	..	5	..
Madagascar	2016	536	366	159	..	0	11	..
	2017	675	496	166	..	0	13	..
	2018	658	473	165	..	0	20	..
	2019	546	361	165	..	0	20	..
Malawi	2016	579	*211	356	..	..	12	..
	2017	586	*211	356	..	..	19	..
	2018	601	*211	367	..	..	23	..
	2019	603	*211	369	..	..	23	..
Mali	2016	*941	*490	*450	..	..	*1	..
	2017	*1,012	*560	*450	..	..	*2	..
	2018	*1,012	*560	*450	..	..	*2	..
	2019	*1,015	*560	*450	..	..	*5	..
Mauritania	2016	*461	*392	..	..	34	35	..
	2017	*506	*421	..	..	35	50	..
	2018	*570	*449	..	..	34	87	..
	2019	*608	*486	..	..	34	88	..
Mauritius	2016	847	749	61	..	11	27	..
	2017	836	736	60	..	11	29	..
	2018	873	735	60	..	11	67	..
	2019	844	684	60	..	11	89	..
Morocco	2016	11,561	8,732	1,770	..	898	161	..
	2017	12,120	9,128	1,770	..	1,017	205	..
	2018	12,350	9,151	1,770	..	1,168	261	..
	2019	13,977	10,276	1,770	..	1,220	711	..
Mozambique	2016	2,491	412	2,078	..	..	1	..
	2017	*2,741	*415	*2,311	..	..	*15	..
	2018	*2,744	*440	*2,264	..	..	*40	..
	2019	*2,814	*480	*2,264	..	..	*70	..
Namibia	2016	529	143	350	..	0	36	..
	2017	565	143	347	..	5	70	..
	2018	582	143	347	..	5	88	..
	2019	600	113	347	..	5	135	..
Niger	2016	288	280	..	..	..	8	..
	2017	290	281	..	..	..	9	..
	2018	311	291	..	..	..	20	..
	2019	*324	*297	..	..	..	27	..
Nigeria	2016	*12,535	*10,403	*2,111	..	3	18	..
	2017	*12,275	*10,142	*2,111	..	3	19	..
	2018	*12,275	*10,142	*2,111	..	3	19	..
	2019	11,681	9,539	*2,111	..	3	28	..
Rwanda	2016	193	99	84	9	..
	2017	209	111	86	12	..
	2018	226	121	92	12	..
	2019	228	122	95	12	..

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Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	81	*1	80	..	0
..	..	..	..	75	*1	74	..	0
..	..	..	..	75	1	74	..	0
..	..	..	..	75	1	74	..	0
*70	*70	..	..	37	28	*9	..	0
*70	*70	..	..	*41	*30	*9	..	*2
*70	*70	..	..	*125	*30	*92	..	*3
*70	*70	..	..	*125	*30	*92	..	*3
..	..	..	..	10,249	10,244	..	..	5
..	..	..	..	10,243	10,238	..	..	5
..	..	..	..	10,516	10,511	..	..	5
..	..	..	..	10,516	10,511	..	..	5
*40	*40	..	..	496	326	159	..	11
*60	*60	..	..	615	436	166	..	13
*60	*60	..	..	598	413	165	..	20
*60	*60	..	..	486	301	165	..	20
*215	*210	*5	..	364	*1	351	..	12
*215	*210	*5	..	371	*1	351	..	19
*215	*210	*5	..	386	*1	362	..	23
*215	*210	*5	..	388	*1	364	..	23
*200	*200	..	..	*741	*290	*450	..	*1
*260	*260	..	..	*752	*300	*450	..	*2
*260	*260	..	..	*752	*300	*450	..	*2
*260	*260	..	..	*755	*300	*450	..	*5
*80	*80	..	..	*381	*312	..	..	69
*80	*80	..	..	*426	*341	..	..	85
*85	*85	..	..	*485	*364	..	..	121
*90	*90	..	..	*518	*396	..	..	122
348	312	..	36	499	437	61	..	1
323	285	..	38	513	452	60	..	1
361	285	..	76	512	450	60	..	1
332	234	..	98	512	450	60	..	1
*3,300	*3,300	..	..	8,261	5,432	1,770	..	1,059
*3,300	*3,300	..	..	8,820	5,828	1,770	..	1,222
*3,300	*3,300	..	..	9,050	5,851	1,770	..	1,429
*3,300	*3,300	..	..	10,677	6,976	1,770	..	1,931
*31	*27	*3	1	2,460	385	2,075	..	..
*30	*30	..	..	*2,711	*385	*2,311	..	*15
*30	*30	..	..	*2,714	*410	*2,264	..	*40
*40	*40	..	..	*2,774	*440	*2,264	..	*70
..	..	..	..	529	143	350	..	36
..	..	..	..	565	143	347	..	75
..	..	..	..	582	143	347	..	93
..	..	..	..	600	113	347	..	140
61	53	..	8	226	226	..	..	..
62	53	..	9	228	228	..	..	..
73	53	..	20	238	238	..	..	..
*80	*53	..	27	*244	*244	..	..	..
*3,323	*3,262	*40	21	*9,212	*7,141	*2,071	..	..
*3,242	*3,180	*40	22	*9,033	*6,962	*2,071	..	..
*3,242	*3,180	*40	22	*9,033	*6,962	*2,071	..	..
*3,251	*3,180	*40	31	8,430	6,359	*2,071
*1	*1	192	98	84	..	9
*1	*1	208	110	86	..	12
*1	*1	225	120	92	..	12
*1	*1	227	121	95	..	12

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Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Sao Tome and Principe	2016	*27	*25	2	..	..	0	..
	2017	*29	*26	2	..	..	0	..
	2018	*29	*26	2	..	..	0	..
	2019	*29	*26	2	..	..	0	..
Senegal	2016	*893	*840	..	..	..	22	*31
	2017	1,016	884	..	..	..	102	30
	2018	1,174	1,001	..	..	..	143	*30
	2019	1,432	1,141	..	..	50	*166	*75
Seychelles	2016	*137	*129	..	..	6	2	..
	2017	155	146	..	..	7	3	..
	2018	*155	*146	..	..	6	4	..
	2019	*157	*147	..	..	6	4	..
Sierra Leone	2016	139	78	60	..	..	1	..
	2017	*142	*78	*60	..	..	4	..
	2018	*137	*76	*57	..	..	4	..
	2019	*143	*78	*60	..	..	*4	..
Somalia	2016	87	80	..	..	3	5	..
	2017	90	80	..	..	4	7	..
	2018	91	80	..	..	4	7	..
	2019	91	80	..	..	4	7	..
South Africa	2016	*51,889	*42,581	*3,146	1,860	*2,328	1,974	..
	2017	*55,432	*45,497	3,479	1,940	*2,330	2,186	..
	2018	*56,205	*45,497	3,479	1,940	*2,330	2,959	..
	2019	*58,683	*48,380	*3,479	1,940	*2,323	2,561	..
South Sudan	2016	*84	*80	*3	..	..	*1	..
	2017	*131	*120	*3	..	..	*8	..
	2018	*131	*120	*3	..	..	*8	..
	2019	*131	*120	*3	..	..	*8	..
St. Helena and Depend.	2016	11	8	..	..	2	1	..
	2017	11	8	..	..	*3	1	..
	2018	12	8	..	..	3	2	..
	2019	12	8	..	..	*3	*2	..
Sudan	2016	3,540	1,935	1,593	..	..	12	..
	2017	3,770	2,004	1,753	..	..	13	..
	2018	3,933	2,013	1,907	..	..	13	..
	2019	*4,138	*2,213	1,907	..	..	18	..
Togo	2016	213	158	55	..	..	..	..
	2017	227	158	67	..	..	3	..
	2018	227	157	67	..	..	4	..
	2019	230	158	67	..	..	5	..
Tunisia	2016	5,240	4,901	62	..	240	37	..
	2017	5,085	4,734	62	..	240	49	..
	2018	4,922	4,474	62	..	240	146	..
	2019	5,526	5,068	62	..	240	156	..
Uganda	2016	872	166	695	..	..	11	..
	2017	913	178	712	..	..	22	..
	2018	984	198	744	..	..	42	..
	2019	1,256	199	1,004	..	..	52	..
United Rep. of Tanzania	2016	1,394	808	567	..	..	18	..
	2017	1,412	829	562	..	..	22	..
	2018	1,607	1,015	567	..	..	25	..
	2019	1,530	931	574	..	..	26	..
Zambia	2016	2,827	439	2,388	0	..
	2017	2,897	498	2,398	1	..
	2018	2,898	499	2,398	1	..
	2019	2,981	494	2,399	89	..

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Net installed capacity of electricity plants by type

Megawatts

Total	Autoproducers			Main activity producers				
	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	*27	*25	2	..	0
..	..	..	..	*29	*26	2	..	0
..	..	..	..	*29	*26	2	..	0
..	..	..	..	*29	*26	2	..	0
*383	*330	..	*53	*510	*510	..	..	..
*462	*330	..	132	554	554	..	..	..
503	330	..	173	671	671	..	..	..
461	330	..	*131	971	811	..	..	*160
*28	*28	..	..	*108	*100	..	..	8
*29	*29	..	..	126	116	..	..	10
*29	*29	..	..	*126	*116	..	..	10
*29	*29	..	..	*127	*118	..	..	10
*1	*1	..	..	138	77	60	..	1
*1	*1	..	..	*141	*77	*60	..	4
*1	*1	..	..	*136	*75	*57	..	4
*1	*1	..	..	*142	*77	*60	..	*4
..	..	..	..	87	80	..	..	7
..	..	..	..	90	80	..	..	10
..	..	..	..	91	80	..	..	11
..	..	..	..	91	80	..	..	11
*8,633	*4,391	40	*4,202	*43,256	*38,190	*3,106	1,860	*100
*6,877	*2,400	61	*4,416	*48,555	*43,097	3,418	1,940	100
*7,650	*2,400	*61	5,189	*48,555	*43,097	3,418	1,940	*100
*7,245	*2,400	*61	4,784	*51,438	*45,980	*3,418	1,940	*100
*41	*40	..	*1	*43	*40	*3	..	0
*41	*40	..	*1	*90	*80	*3	..	*7
*41	*40	..	*1	*90	*80	*3	..	*7
*41	*40	..	*1	*90	*80	*3	..	*7
..	..	..	..	11	8	..	..	3
..	..	..	..	11	8	..	..	*3
..	..	..	..	12	8	..	..	4
..	..	..	..	12	8	..	..	*4
190	190	..	..	3,350	1,745	1,593	..	12
190	190	..	..	3,580	1,814	1,753	..	13
199	199	..	..	3,734	1,814	1,907	..	13
*200	*200	..	..	*3,938	*2,013	1,907	..	18
*8	*8	..	..	205	150	55	..	..
*11	*8	..	3	217	150	67	..	..
*12	*8	..	4	216	149	67	..	..
*13	*8	..	5	217	150	67	..	..
*235	*198	..	37	5,005	4,703	62	..	240
*247	*198	..	49	4,838	4,536	62	..	240
*344	*198	..	146	4,578	4,276	62	..	240
*353	*198	..	155	5,173	4,870	62	..	241
130	65	65	..	742	102	630	..	11
160	76	82	2	752	102	630	..	21
212	96	114	*2	772	102	630	..	41
248	97	149	*2	1,007	102	855	..	51
*38	*20	..	18	1,356	788	567	..	..
54	32	..	22	1,358	796	562	..	..
211	186	..	25	1,396	829	567	..	..
*212	*186	..	26	1,318	745	574	..	..
..	..	..	..	2,827	439	2,388	..	0
..	..	..	..	2,897	498	2,398	..	1
..	..	..	..	2,898	499	2,398	..	1
..	..	..	..	2,981	494	2,399	..	89

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Zimbabwe	2016	2,015	1,265	750	..	..	..	..
	2017	2,015	1,265	750	..	..	..	..
	2018	2,315	1,265	1,050	..	..	..	..
	2019	*2,346	*1,265	1,081	..	..	..	..
America, North	2016	1,347,408	885,490	203,516	115,206	99,088	38,703	5,404
	2017	1,363,541	884,428	204,007	115,270	105,610	47,978	6,247
	2018	1,399,114	896,152	204,924	115,100	114,925	58,863	9,148
	2019	1,413,810	890,813	205,560	113,873	125,070	68,935	9,558
Anguilla	2016	35	33	..	..	..	2	..
	2017	26	24	..	..	..	2	..
	2018	25	24	..	..	..	1	..
	2019	26	24	..	..	..	2	..
Antigua and Barbuda	2016	*117	*111	..	..	..	6	..
	2017	*119	*113	..	..	..	6	..
	2018	91	82	..	..	..	9	..
	2019	*118	*109	..	..	..	9	..
Aruba	2016	288	258	..	..	30	..	..
	2017	288	258	..	..	30	..	..
	2018	288	258	..	..	30	..	..
	2019	288	258	..	..	30	..	..
Bahamas	2016	576	576	..	..	..	..	..
	2017	576	576	..	..	..	..	..
	2018	576	576	..	..	..	..	..
	2019	576	576	..	..	..	..	..
Barbados	2016	268	249	..	..	..	19	..
	2017	281	262	..	..	..	19	..
	2018	259	234	..	..	..	25	..
	2019	301	261	..	..	..	40	..
Belize	2016	146	94	51	..	..	0	..
	2017	165	113	51	..	..	0	..
	2018	165	113	51	..	..	0	..
	2019	158	100	55	..	..	3	..
Bermuda	2016	*173	*171	..	..	..	*2	..
	2017	*174	*171	..	..	..	*3	..
	2018	*176	*172	..	..	..	4	..
	2019	*176	*172	..	..	..	4	..
Bonaire, St Eustatius, Saba	2016	33	20	..	..	11	2	..
	2017	*33	*20	..	..	11	2	..
	2018	*37	*20	..	..	11	6	..
	2019	*37	*20	..	..	11	6	..
British Virgin Islands	2016	45	44	..	..	1	1	..
	2017	*32	*31	..	..	*1	*1	..
	2018	*33	*32	..	..	*1	0	..
	2019	*33	*32	..	..	*1	0	..
Canada	2016	146,601	37,557	80,304	14,033	11,973	2,665	*69
	2017	147,449	37,307	80,831	14,033	12,250	2,932	*96
	2018	148,762	37,322	81,396	14,033	12,816	3,095	*100
	2019	149,594	37,322	81,399	14,033	13,413	3,327	*100
Cayman Islands	2016	161	161	..	..	..	..	..
	2017	161	161	..	..	..	..	..
	2018	161	161	..	..	..	..	..
	2019	161	161	..	..	..	..	..
Costa Rica	2016	4,003	617	2,538	..	619	21	207
	2017	3,566	617	2,328	..	378	36	207
	2018	3,648	629	2,360	..	408	44	207
	2019	3,626	550	2,344	..	411	59	262

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
*45	*45	..	..	1,970	1,220	750	..	..
*45	*45	..	..	1,970	1,220	750	..	..
*45	*45	..	..	2,270	1,220	1,050	..	..
*45	*45	..	..	*2,301	*1,220	1,081	..	..
77,644	51,958	6,011	19,675	1,269,764	833,532	197,505	115,206	123,521
80,930	51,684	5,811	23,435	1,282,611	832,744	198,196	115,270	136,401
81,265	47,509	5,774	27,981	1,317,849	848,643	199,150	115,100	154,956
84,412	46,475	5,778	32,159	1,329,397	844,338	199,782	113,873	171,404
..	..	..	..	35	33	..	..	2
..	..	..	..	26	24	..	..	2
..	..	..	..	25	24	..	..	1
..	..	..	..	26	24	..	..	2
*1	*1	..	..	*116	*110	..	..	6
*1	*1	..	..	*118	*112	..	..	6
*1	*1	..	..	90	81	..	..	9
*1	*1	..	..	*117	*108	..	..	9
..	..	..	..	288	258	..	..	30
..	..	..	..	288	258	..	..	30
..	..	..	..	288	258	..	..	30
..	..	..	..	288	258	..	..	30
*39	*39	..	..	537	537	..	..	..
*39	*39	..	..	537	537	..	..	..
*39	*39	..	..	537	537	..	..	..
*39	*39	..	..	537	537	..	..	..
*10	*10	..	..	258	239	..	..	19
*10	*10	..	..	271	252	..	..	19
*10	*10	..	..	249	224	..	..	25
*10	*10	..	..	291	251	..	..	40
*34	*34	..	..	112	60	51	..	0
*45	*45	..	..	120	68	51	..	0
*45	*45	..	..	120	68	51	..	0
*45	*45	..	..	113	55	55	..	3
*6	*4	..	*2	*167	*167	..	..	..
*7	*4	..	*3	*167	*167	..	..	..
9	5	..	4	*167	*167	..	..	..
9	5	..	4	*167	*167	..	..	..
..	..	..	..	33	20	..	..	13
..	..	..	..	*33	*20	..	..	13
..	..	..	..	*37	*20	..	..	17
..	..	..	..	*37	*20	..	..	17
..	..	..	..	45	44	..	..	1
..	..	..	..	*32	*31	..	..	*1
..	..	..	..	*33	*32	..	..	*1
..	..	..	..	*33	*32	..	..	*1
11,947	5,684	5,123	1,140	134,654	31,873	75,181	14,033	13,567
12,071	5,559	5,132	1,380	135,378	31,748	75,699	14,033	13,898
12,412	5,674	5,175	1,563	136,350	31,648	76,221	14,033	14,448
12,525	5,674	5,175	1,676	137,069	31,648	76,224	14,033	15,164
..	..	..	..	161	161	..	..	..
..	..	..	..	161	161	..	..	..
..	..	..	..	161	161	..	..	..
..	..	..	..	161	161	..	..	..
*576	45	210	*320	3,427	572	2,328	..	527
76	45	0	30	3,490	572	2,328	..	590
97	58	0	39	3,551	572	2,359	..	620
130	76	0	54	3,495	474	2,343	..	678

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Cuba	2016	6,454	6,341	66	..	*16	*30	..
	2017	6,476	6,325	66	..	*22	*63	..
	2018	6,661	6,458	64	..	*36	*103	..
	2019	6,508	6,285	64	..	*41	*118	..
Curaçao	2016	*307	*262	..	..	30	*15	..
	2017	*257	*200	..	..	47	11	..
	2018	*257	*200	..	..	45	12	..
	2019	*216	*159	..	..	45	12	..
Dominica	2016	42	35	7	..	0	1	..
	2017	42	35	7	..	0	1	..
	2018	40	35	5	..	0	0	..
	2019	40	35	5	..	0	0	..
Dominican Republic	2016	5,202	4,382	617	..	135	69	..
	2017	5,132	4,276	617	..	135	103	..
	2018	5,275	4,271	617	..	183	203	..
	2019	6,194	4,995	625	..	370	*204	..
El Salvador	2016	*1,748	*1,037	495	..	..	12	204
	2017	1,943	1,055	574	..	..	110	204
	2018	2,025	1,079	575	..	..	167	204
	2019	2,263	1,079	574	..	..	406	204
Greenland	2016	187	*96	91	..	..	..	..
	2017	187	96	91	..	..	..	..
	2018	*187	*96	*91	..	..	..	..
	2019	187	*96	91	..	..	..	..
Grenada	2016	50	48	..	..	..	2	..
	2017	52	50	..	..	..	2	..
	2018	54	52	..	..	..	2	..
	2019	55	52	..	..	..	3	..
Guatemala	2016	3,442	1,942	1,306	..	76	85	34
	2017	3,356	1,845	1,311	..	75	92	34
	2018	3,499	1,770	1,492	..	107	92	39
	2019	4,042	2,234	1,560	..	107	93	49
Haiti	2016	*336	*274	61	..	..	1	..
	2017	*344	*282	61	..	..	1	..
	2018	*352	*290	61	..	..	1	..
	2019	*471	*390	78	..	..	3	..
Honduras	2016	2,456	1,209	663	..	175	409	..
	2017	2,663	1,267	685	..	225	451	35
	2018	2,740	1,254	715	..	225	511	35
	2019	2,770	1,257	730	..	235	513	35
Jamaica	2016	1,031	871	29	..	101	30	..
	2017	1,041	871	29	..	101	40	..
	2018	1,045	874	29	..	102	40	..
	2019	*1,150	*962	29	..	*102	57	..
Mexico	2016	72,574	53,047	12,580	1,608	4,051	362	926
	2017	74,431	54,388	12,628	1,608	4,180	642	985
	2018	89,351	62,010	12,643	1,634	5,887	2,579	4,598
	2019	92,286	63,521	13,301	1,721	6,073	2,838	4,832
Montserrat	2016	5	5	..	..	..	..	..
	2017	5	5	..	..	..	..	..
	2018	5	5	..	..	..	..	..
	2019	6	5	..	..	..	0	..
Nicaragua	2016	1,396	912	142	..	186	1	155
	2017	1,482	985	142	..	186	14	155
	2018	1,482	985	142	..	186	14	155
	2019	1,621	1,107	158	..	186	16	153

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
494	494	..	..	5,960	5,847	66	..	*47
531	531	..	..	5,945	5,794	66	..	*85
553	553	..	..	6,108	5,905	64	..	*139
459	459	..	..	6,049	5,826	64	..	*159
*146	*146	..	..	*161	*116	..	..	45
*84	*84	..	..	*173	*116	..	..	57
*84	*84	..	..	*173	*116	..	..	57
*33	*33	..	..	*183	*126	..	..	57
15	15	..	..	28	20	7	..	1
15	15	..	..	28	20	7	..	1
*15	*15	..	..	25	20	5	..	1
*15	*15	..	..	25	20	5	..	1
1,393	1,353	1	39	3,809	3,028	616	..	165
1,294	1,219	1	73	3,838	3,057	616	..	165
1,306	1,189	2	116	3,969	3,082	616	..	271
1,373	1,255	*2	*116	4,822	3,740	623	..	458
*314	*280	23	12	*1,434	*757	473	..	204
*363	*291	22	50	1,580	764	552	..	264
*451	*322	22	107	1,574	757	553	..	264
*555	*322	21	212	1,708	757	553	..	398
*16	*16	..	..	171	*80	91	..	..
16	16	..	..	171	80	91	..	..
*16	*16	..	..	*171	*80	*91	..	..
*16	*16	..	..	171	*80	91	..	..
0	0	..	..	50	48	..	..	2
0	0	..	..	52	50	..	..	2
0	0	..	..	54	52	..	..	2
0	0	..	..	55	52	..	..	3
705	701	4	..	2,737	1,241	1,302	..	194
679	675	4	..	2,677	1,170	1,307	..	200
652	647	5	..	2,846	1,122	1,487	..	237
*655	*650	*5	..	3,387	1,584	1,555	..	249
*96	*96	..	..	*240	*178	61	..	1
*99	*99	..	..	*245	*183	61	..	1
*102	*102	..	..	*250	*188	61	..	1
*137	*137	..	..	*333	*253	78	..	3
364	364	..	..	2,092	845	663	..	584
394	394	..	..	2,269	873	685	..	711
369	369	..	..	2,371	885	715	..	771
354	354	..	..	2,416	903	730	..	783
370	262	..	108	661	609	29	..	23
380	262	..	118	661	609	29	..	23
380	262	..	118	665	612	29	..	24
*485	*350	..	*135	*665	*612	29	..	*24
16,670	12,767	232	3,671	55,904	40,280	12,348	1,608	1,668
16,895	12,772	233	3,890	57,536	41,616	12,395	1,608	1,917
12,928	8,047	225	4,656	76,423	53,963	12,418	1,634	8,408
11,813	6,698	225	4,890	80,473	56,823	13,076	1,721	8,853
..	..	..	..	5	5	..	..	..
..	..	..	..	5	5	..	..	..
..	..	..	..	5	5	..	..	..
..	..	..	..	6	5	..	..	0
178	177	1	..	1,219	735	142	..	342
178	177	1	..	1,305	809	142	..	355
178	177	1	..	1,305	809	142	..	355
219	218	1	..	1,402	888	157	..	356

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Panama	2016	3,371	1,235	1,769	..	270	89	8
	2017	3,423	1,225	1,777	..	270	143	8
	2018	4,055	1,811	1,777	..	270	189	8
	2019	4,091	1,819	1,796	..	270	198	8
Puerto Rico	2016	6,257	5,900	99	..	125	133	..
	2017	*6,264	*5,900	99	..	101	165	..
	2018	5,830	5,466	99	..	101	165	..
	2019	6,173	5,808	99	..	102	165	..
Sint Maarten (Dutch part)	2016	97	97	..	..	..	..	..
	2017	*88	*88	..	..	..	..	..
	2018	*92	*92	..	..	..	..	..
	2019	*96	*96	..	..	..	..	..
St. Kitts-Nevis	2016	65	60	..	..	2	2	..
	2017	65	60	..	..	2	2	..
	2018	71	67	..	..	2	2	..
	2019	*71	*67	..	..	2	2	..
St. Lucia	2016	88	88	..	..	..	..	..
	2017	88	88	..	..	..	..	..
	2018	91	88	..	..	..	3	..
	2019	91	88	..	..	..	3	..
St. Pierre-Miquelon	2016	25	25	..	..	0	..	..
	2017	25	25	..	..	0	..	..
	2018	26	26	..	..	0	..	..
	2019	26	26	..	..	0	..	..
St. Vincent-Grenadines	2016	53	46	6	..	..	1	..
	2017	48	41	6	..	..	1	..
	2018	46	38	6	..	..	2	..
	2019	48	40	6	..	..	2	..
Trinidad and Tobago	2016	2,505	2,502	..	..	..	3	..
	2017	2,509	2,506	..	..	0	3	..
	2018	2,156	2,153	..	..	0	3	..
	2019	2,118	2,115	..	..	0	3	..
Turks and Caicos Islands	2016	82	82	..	..	..	..	..
	2017	82	82	..	..	..	..	..
	2018	85	84	..	..	..	1	..
	2019	85	84	..	..	..	1	..
United States	2016	1,086,849	764,787	102,692	99,565	81,287	34,716	3,802
	2017	1,100,333	762,765	102,703	99,629	87,597	43,115	4,524
	2018	1,119,131	767,009	102,801	99,433	94,516	51,570	3,802
	2019	1,127,772	758,593	102,649	98,119	103,670	60,827	3,914
United States Virgin Is.	2016	340	316	..	..	0	*24	..
	2017	336	316	..	..	0	*20	..
	2018	336	316	..	..	0	*20	..
	2019	*336	*316	..	..	0	*20	..
America, South	2016	302,343	122,808	161,283	3,753	13,043	1,454	1
	2017	314,718	125,540	166,210	3,745	15,782	3,417	25
	2018	326,986	127,635	171,006	3,745	18,934	5,625	40
	2019	337,663	128,574	175,767	3,745	21,069	8,468	40
Argentina	2016	37,430	25,314	10,127	1,763	217	9	..
	2017	39,764	26,510	11,262	1,755	229	8	..
	2018	42,128	28,122	11,308	1,755	752	191	..
	2019	43,272	28,137	11,330	1,755	1,611	439	..
Bolivia (Plur. State of)	2016	*2,447	*1,919	496	..	27	5	..
	2017	*2,611	*1,953	620	..	27	11	..
	2018	*2,773	*1,983	692	..	27	71	..
	2019	3,692	2,783	761	..	27	121	..

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
232	172	60	..	3,139	1,063	1,709	..	367
232	172	60	..	3,191	1,053	1,717	..	421
232	172	60	..	3,823	1,639	1,717	..	467
522	462	60	..	3,569	1,357	1,736	..	476
*61	*61	..	..	6,196	5,839	99	..	258
*61	*61	..	..	*6,203	*5,839	99	..	266
*60	*60	..	..	5,770	5,406	99	..	266
60	60	..	..	6,113	5,748	99	..	267
..	..	..	..	97	97	..	..	..
..	..	..	..	*88	*88	..	..	..
..	..	..	..	*92	*92	..	..	..
..	..	..	..	*96	*96	..	..	..
*4	*4	..	..	61	56	..	..	4
*4	*4	..	..	61	56	..	..	4
*4	*4	..	..	67	63	..	..	4
*4	*4	..	..	*67	*63	..	..	4
..	..	..	..	88	88	..	..	..
..	..	..	..	88	88	..	..	..
..	..	..	..	91	88	..	..	3
..	..	..	..	91	88	..	..	3
..	..	..	..	25	25	..	..	0
..	..	..	..	25	25	..	..	0
..	..	..	..	26	26	..	..	0
..	..	..	..	26	26	..	..	0
0	..	..	0	53	46	6	..	1
0	..	..	0	48	41	6	..	1
0	..	..	0	45	38	6	..	2
0	..	..	0	48	40	6	..	2
*100	*100	..	..	2,405	2,402	..	..	3
*104	*104	..	..	2,405	2,402	..	..	3
*107	*107	..	..	2,049	2,046	..	..	3
*96	*96	..	..	2,022	2,019	..	..	3
..	..	..	..	82	82	..	..	..
..	..	..	..	82	82	..	..	..
..	..	..	..	85	84	..	..	1
..	..	..	..	85	84	..	..	1
43,858	29,133	357	14,368	1,042,991	735,654	102,335	99,565	105,437
47,338	29,106	357	17,875	1,052,995	733,659	102,346	99,629	117,361
51,200	29,552	284	21,364	1,067,931	737,457	102,517	99,433	128,524
54,842	29,496	289	25,057	1,072,930	729,097	102,360	98,119	143,354
*15	0	..	*15	325	316	..	..	9
*15	0	..	*15	321	316	..	..	5
*15	..	..	*15	321	316	..	..	5
*15	..	..	*15	*321	*316	..	..	5
36,608	30,881	5,533	194	265,735	91,927	155,750	3,753	14,304
38,733	32,741	5,638	354	275,985	92,799	160,572	3,745	18,869
39,933	33,500	5,732	701	287,053	94,136	165,274	3,745	23,898
40,037	32,781	5,739	1,517	297,626	95,794	170,028	3,745	28,060
3,614	3,592	20	2	33,816	21,722	10,107	1,763	224
3,614	3,592	20	2	36,150	22,918	11,242	1,755	235
3,614	3,592	20	2	38,514	24,530	11,288	1,755	941
3,614	3,592	20	2	39,658	24,545	11,310	1,755	2,048
*188	*187	*1	..	*2,259	*1,732	495	..	32
*196	*195	*1	..	*2,415	*1,758	619	..	38
129	128	*2	..	*2,644	*1,856	690	..	98
*155	*153	*2	..	3,537	2,630	759	..	148

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Brazil	2016	150,422	41,286	96,931	1,990	10,129	86	..
	2017	157,579	41,881	100,319	1,990	12,293	1,096	..
	2018	163,509	40,561	104,198	1,990	14,400	2,360	..
	2019	172,280	41,281	109,155	1,990	15,388	4,466	..
Chile	2016	24,530	15,695	6,671	..	1,039	1,125	0
	2017	26,207	16,500	6,656	..	1,302	1,724	24
	2018	27,534	16,877	6,627	..	1,692	2,298	40
	2019	27,644	16,544	6,341	..	1,999	2,720	40
Colombia	2016	17,691	5,972	11,700	..	18	..	0
	2017	17,931	6,084	11,820	..	18	10	0
	2018	18,889	6,854	11,931	..	18	*86	0
	2019	19,009	6,890	12,011	..	18	*90	0
Ecuador	2016	8,697	4,105	4,545	..	21	26	..
	2017	8,644	3,934	4,663	..	21	26	..
	2018	9,365	4,054	5,264	..	21	27	..
	2019	9,418	4,096	5,274	..	21	27	..
Falkland Is. (Malvinas)	2016	11	9	..	..	2	0	..
	2017	11	9	..	..	2	0	..
	2018	11	9	..	..	2	0	..
	2019	11	9	..	..	2	0	..
Guyana	2016	360	356	..	..	0	3	..
	2017	348	343	..	..	0	5	..
	2018	348	340	..	..	0	8	..
	2019	335	327	..	..	0	8	..
Paraguay	2016	8,761	1	8,760	..	..	..	..
	2017	8,761	1	8,760	..	..	..	..
	2018	8,761	1	8,760	..	..	..	..
	2019	8,761	1	8,760	..	..	..	..
Peru	2016	14,517	8,988	5,189	..	240	100	..
	2017	14,775	9,005	5,246	..	240	284	..
	2018	15,214	9,154	5,363	..	372	325	..
	2019	15,162	9,062	5,397	..	372	331	..
Suriname	2016	508	313	189	..	..	6	..
	2017	529	334	189	..	..	6	..
	2018	532	336	189	..	..	7	..
	2019	*539	343	*189	..	..	7	..
Uruguay	2016	3,913	1,075	1,538	..	1,212	89	..
	2017	4,546	1,255	1,538	..	1,511	243	..
	2018	4,912	1,615	1,538	..	1,511	248	..
	2019	4,920	1,615	1,538	..	1,514	254	..
Venezuela (Bolivar. Rep.)	2016	33,058	17,777	15,137	..	138	5	1
	2017	33,013	17,732	15,137	..	138	5	*1
	2018	33,012	17,732	15,137	..	138	4	*1
	2019	32,620	17,487	15,011	..	116	5	*1
Asia	2016	3,359,956	2,327,973	559,878	112,342	196,341	145,690	17,731
	2017	3,502,391	2,354,019	574,928	111,923	217,488	224,968	19,065
	2018	3,688,802	2,435,750	586,682	118,698	240,255	287,195	20,223
	2019	3,855,085	2,504,581	596,916	118,583	269,157	345,132	20,717
Afghanistan	2016	*519	*135	*384	..	..	..	..
	2017	*519	*135	*384	..	..	..	..
	2018	*519	*135	*384	..	..	..	..
	2019	*531	*135	*384	..	..	*12	..
Armenia	2016	3,564	1,840	1,312	408	3	1	..
	2017	3,582	1,840	1,327	408	3	4	..
	2018	3,591	1,827	1,336	408	3	18	..
	2019	3,621	1,827	1,340	408	4	43	..

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
24,199	19,185	4,949	65	126,223	22,101	91,982	1,990	10,150
24,941	19,751	5,019	171	132,638	22,130	95,300	1,990	13,218
25,498	19,925	5,061	512	138,011	20,636	99,137	1,990	16,248
26,482	20,129	5,068	1,285	145,798	21,152	104,087	1,990	18,569
2,486	2,448	36	2	22,044	13,247	6,635	..	2,162
3,669	3,658	8	3	22,538	12,842	6,648	..	3,047
4,241	4,225	9	7	23,293	12,652	6,619	..	4,023
3,357	3,310	9	38	24,288	13,234	6,333	..	4,721
*1,624	*1,530	*94	..	16,067	4,442	11,606	..	18
*1,624	*1,530	*94	..	16,307	4,554	11,726	..	28
1,624	1,530	94	..	17,265	5,324	11,837	..	*104
1,624	1,530	94	..	17,385	5,360	11,917	..	*108
1,090	963	127	..	7,607	3,142	4,418	..	47
1,209	1,033	177	..	7,435	2,902	4,486	..	47
1,317	1,090	227	..	8,048	2,964	5,036	..	48
1,346	1,118	227	..	8,073	2,978	5,047	..	48
*2	*2	..	..	9	7	..	..	2
*2	*2	..	..	9	7	..	..	2
*2	*2	..	..	9	7	..	..	2
*2	*2	..	..	9	7	..	..	2
54	54	..	..	306	302	..	..	3
50	50	..	..	298	293	..	..	5
51	51	..	..	297	289	..	..	8
42	42	..	..	293	285	..	..	8
..	..	..	..	8,761	1	8,760	..	..
..	..	..	..	8,761	1	8,760	..	..
..	..	..	..	8,761	1	8,760	..	..
..	..	..	..	8,761	1	8,760	..	..
1,473	1,356	117	..	13,044	7,632	5,072	..	340
1,536	1,366	130	*40	13,239	7,639	5,116	..	484
1,563	1,392	131	*40	13,651	7,762	5,232	..	657
1,512	1,339	131	*42	13,650	7,723	5,266	..	661
312	*123	189	..	196	190	..	..	6
312	*123	189	..	217	211	..	..	6
312	*123	189	..	220	213	..	..	7
*312	*123	*189	..	227	220	..	..	7
466	432	..	34	3,447	643	1,538	..	1,266
480	432	..	48	4,066	823	1,538	..	1,705
483	433	..	51	4,428	1,182	1,538	..	1,708
491	433	..	59	4,429	1,182	1,538	..	1,709
*1,101	*1,010	..	91	31,957	16,767	15,137	..	53
*1,100	*1,010	..	90	31,913	16,722	15,137	..	54
*1,099	*1,010	..	89	31,913	16,722	15,137	..	54
*1,101	*1,010	..	91	31,519	16,477	15,011	..	31
328,722	273,844	3,645	51,233	3,031,234	2,054,129	556,233	112,342	308,530
292,077	230,519	3,617	57,941	3,210,314	2,123,500	571,311	111,923	403,580
337,704	267,708	5,448	64,547	3,351,099	2,168,042	581,234	118,698	483,126
370,351	291,678	5,529	73,143	3,484,734	2,212,903	591,387	118,583	561,862
*195	*65	*130	..	*324	*70	*254	..	..
*195	*65	*130	..	*324	*70	*254	..	..
*195	*65	*130	..	*324	*70	*254	..	..
*195	*65	*130	..	*336	*70	*254	..	*12
..	..	..	..	3,564	1,840	1,312	408	4
2	..	..	2	3,580	1,840	1,327	408	5
10	..	..	10	3,581	1,827	1,336	408	11
33	..	..	33	3,588	1,827	1,340	408	14

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Azerbaijan	2016	7,910	6,765	1,105	..	16	25	..
	2017	7,942	6,791	1,106	..	16	28	..
	2018	7,829	6,597	1,131	..	66	35	..
	2019	7,642	6,395	1,145	..	66	35	..
Bahrain	2016	6,977	6,971	..	..	1	5	..
	2017	6,977	6,971	..	..	*1	*5	..
	2018	6,977	6,971	..	..	*1	*5	..
	2019	*6,977	*6,971	..	..	*1	*5	..
Bangladesh	2016	11,866	11,495	230	..	*1	140	..
	2017	12,213	11,817	230	..	*1	165	..
	2018	*15,293	*14,927	230	..	*1	135	..
	2019	18,291	17,922	230	..	*1	138	..
Bhutan	2016	1,624	9	1,614	..	1	0	..
	2017	1,623	8	1,614	..	1	0	..
	2018	1,624	8	1,614	..	1	1	..
	2019	2,343	7	2,334	..	1	1	..
Brunei Darussalam	2016	*820	*819	..	..	..	*1	..
	2017	993	992	..	..	..	1	..
	2018	993	992	..	..	..	1	..
	2019	1,109	1,108	..	..	..	1	..
Cambodia	2016	1,683	751	930	..	..	*2	..
	2017	1,878	888	980	..	..	10	..
	2018	2,187	847	1,330	..	..	10	..
	2019	2,443	1,007	1,330	..	..	105	..
China	2016	1,749,872	1,160,274	332,071	33,642	147,472	76,313	*100
	2017	1,824,130	1,149,480	344,110	35,820	164,000	130,420	*300
	2018	1,952,048	1,195,998	352,590	44,660	184,270	174,330	*200
	2019	2,064,680	1,244,540	358,040	48,740	209,150	204,180	*30
China, Hong Kong SAR	2016	12,625	12,625	..	..	..	..	..
	2017	12,492	12,492	..	..	..	..	..
	2018	12,282	12,282	..	..	..	..	..
	2019	12,225	12,225	..	..	..	..	..
China, Macao SAR	2016	501	501	..	..	..	..	..
	2017	437	437	..	..	..	..	..
	2018	437	437	..	..	..	..	..
	2019	437	437	..	..	..	..	..
Cyprus	2016	1,756	1,515	..	..	158	84	..
	2017	1,782	1,515	..	..	158	110	..
	2018	1,794	1,517	..	..	158	119	..
	2019	1,819	1,510	..	..	158	151	..
Georgia	2016	3,299	849	2,430	..	20	..	..
	2017	3,592	849	2,723	..	20	..	..
	2018	3,591	876	2,695	..	20	..	..
	2019	3,712	1,108	2,583	..	21	..	..
India	2016	374,795	267,129	44,597	6,780	35,480	12,514	8,295
	2017	400,455	276,062	45,344	6,780	38,186	24,538	9,545
	2018	427,794	298,316	45,502	6,780	38,825	28,455	9,916
	2019	442,297	305,307	45,807	6,780	40,490	33,912	10,001
Indonesia	2016	59,305	52,622	4,868	..	*7	13	*1,795
	2017	*60,980	*53,517	*5,190	..	*7	*17	*2,249
	2018	64,417	56,383	5,741	..	*143	*24	*2,126
	2019	66,845	58,600	5,858	..	*154	*105	*2,128
Iran (Islamic Rep. of)	2016	74,106	61,262	11,578	1,020	191	43	12
	2017	*76,569	*63,145	11,949	1,020	259	184	12
	2018	*78,794	*65,241	11,953	1,020	282	286	12
	2019	*80,467	*66,740	12,026	1,020	302	367	12

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
744	736	..	8	7,167	6,029	1,105	..	33
770	762	..	8	7,172	6,029	1,106	..	36
852	852	..	0	6,977	5,746	1,131	..	101
848	848	..	0	6,794	5,548	1,145	..	101
*3,050	*3,050	..	..	3,927	3,921	..	..	6
*3,050	*3,050	..	..	3,927	3,921	..	..	*6
*3,050	*3,050	..	..	3,927	3,921	..	..	*6
*3,050	*3,050	..	..	*3,927	*3,921	..	..	*6
2,279	2,279	..	..	9,587	9,216	230	..	141
2,404	2,404	..	..	9,809	9,413	230	..	166
*4,636	*4,636	..	..	*10,657	*10,291	230	..	136
7,332	7,332	..	..	10,959	10,590	230	..	139
..	..	..	..	1,624	9	1,614	..	1
..	..	..	..	1,623	8	1,614	..	1
..	..	..	..	1,624	8	1,614	..	2
..	..	..	..	2,343	7	2,334	..	2
*110	*110	..	..	*709	*708	..	..	*1
117	117	..	..	876	875	..	..	1
117	117	..	..	876	875	..	..	1
*234	*234	..	..	875	874	..	..	1
..	..	..	..	1,683	751	930	..	*2
..	..	..	..	1,878	888	980	..	10
..	..	..	..	2,187	847	1,330	..	10
..	..	..	..	2,443	1,007	1,330	..	105
*99,330	*99,330	..	..	1,650,542	1,060,944	332,071	33,642	223,885
*44,530	*44,530	..	..	1,779,600	1,104,950	344,110	35,820	294,720
*51,190	*51,190	..	..	1,900,858	1,144,808	352,590	44,660	358,800
54,970	54,970	..	..	2,009,710	1,189,570	358,040	48,740	413,360
..	..	..	..	12,625	12,625	..	..	..
..	..	..	..	12,492	12,492	..	..	..
..	..	..	..	12,282	12,282	..	..	..
..	..	..	..	12,225	12,225	..	..	..
29	29	..	..	472	472	..	..	..
29	29	..	..	408	408	..	..	..
29	29	..	..	408	408	..	..	..
29	29	..	..	408	408	..	..	..
67	37	..	30	1,689	1,478	..	..	212
72	37	..	35	1,710	1,478	..	..	233
78	37	..	41	1,716	1,481	..	..	236
93	30	..	63	1,726	1,481	..	..	246
..	..	..	..	3,299	849	2,430	..	20
..	..	..	..	3,592	849	2,723	..	20
..	..	..	..	3,591	876	2,695	..	20
..	..	..	..	3,712	1,108	2,583	..	21
52,289	48,799	65	*3,425	322,506	218,330	44,532	6,780	52,864
56,631	53,155	51	*3,425	343,824	222,907	45,293	6,780	68,844
75,615	72,037	103	*3,475	352,179	226,279	45,399	6,780	73,721
78,000	74,707	108	*3,185	364,297	230,600	45,699	6,780	81,218
*19,325	*17,000	*1,300	*1,025	39,980	35,622	3,568	..	790
*19,881	*17,289	*1,386	*1,206	*41,099	*36,228	*3,804	..	*1,067
21,188	18,863	2,159	*166	43,229	37,520	3,582	..	*2,127
21,455	18,926	2,275	*254	45,390	39,674	3,583	..	*2,133
5,581	5,581	..	..	68,525	55,681	11,578	1,020	246
*5,753	*5,753	..	..	*70,816	*57,392	11,949	1,020	455
*5,905	*5,905	..	..	*72,889	*59,336	11,953	1,020	580
*6,000	*6,000	..	..	*74,467	*60,740	12,026	1,020	681

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Iraq	2016	32,214	29,664	2,513	..	..	37	..
	2017	26,133	24,300	1,796	..	..	37	..
	2018	27,412	25,400	1,796	..	..	216	..
	2019	27,412	25,400	1,796	..	..	216	..
Israel	2016	17,585	16,689	7	..	27	862	..
	2017	17,827	16,813	9	..	27	978	..
	2018	18,019	16,617	9	..	35	1,358	..
	2019	19,493	17,192	9	..	35	2,257	..
Japan	2016	338,210	198,299	50,117	41,482	3,246	42,040	*3,026
	2017	342,197	197,092	50,014	39,132	3,483	49,499	*2,977
	2018	347,178	196,656	50,037	38,042	3,497	56,162	*2,784
	2019	346,474	193,414	50,033	33,083	3,951	63,192	*2,801
Jordan	2016	4,475	3,969	12	..	198	296	..
	2017	4,506	3,890	12	..	198	406	..
	2018	4,846	3,745	12	..	280	809	..
	2019	5,227	3,745	12	..	370	1,101	..
Kazakhstan	2016	*25,452	*22,500	2,696	..	98	158	..
	2017	*25,514	*22,500	2,726	..	112	176	..
	2018	25,270	21,902	2,756	..	121	491	..
	2019	23,965	20,079	2,778	..	284	824	..
Korea, Dem.Ppl's.Rep.	2016	7,671	2,960	4,701	..	..	*10	..
	2017	7,731	2,960	4,761	..	..	*10	..
	2018	8,160	3,360	4,790	..	..	*10	..
	2019	8,160	3,360	4,790	..	..	*10	..
Korea, Republic of	2016	111,203	75,559	6,485	23,116	1,067	4,502	474
	2017	122,950	86,377	6,489	22,529	1,215	5,834	506
	2018	127,475	89,013	6,490	21,850	1,420	8,099	603
	2019	132,104	88,174	6,508	23,250	1,494	11,952	726
Kuwait	2016	18,892	18,890	..	..	..	*2	..
	2017	18,765	18,763	..	..	..	*2	..
	2018	18,867	18,863	..	..	..	*4	..
	2019	19,371	19,266	..	..	12	93	..
Kyrgyzstan	2016	*3,786	*722	*3,064	..	..	..	..
	2017	3,869	*734	3,135	..	..	..	..
	2018	*3,869	*734	*3,135	..	..	..	..
	2019	3,869	734	3,135	..	..	..	..
Lao People's Dem. Rep.	2016	6,460	1,918	4,538	..	..	4	..
	2017	6,931	1,903	5,006	..	..	22	..
	2018	7,187	1,909	5,256	..	..	22	..
	2019	8,014	*1,909	6,083	..	..	22	..
Lebanon	2016	3,662	3,359	280	..	..	23	..
	2017	3,698	3,409	*253	..	..	36	..
	2018	3,704	3,409	*253	..	..	42	..
	2019	3,741	3,409	*253	..	..	79	..
Malaysia	2016	33,090	25,732	6,137	..	..	280	940
	2017	33,334	26,848	6,128	..	..	358	..
	2018	34,389	26,432	6,168	..	..	1,004	786
	2019	*34,153	*26,260	6,245	..	..	882	766
Maldives	2016	274	266	..	..	1	7	..
	2017	*277	*266	..	..	1	10	..
	2018	*376	*365	..	..	1	10	..
	2019	544	529	..	..	1	14	..
Mongolia	2016	*1,199	*1,103	29	..	52	15	..
	2017	1,311	1,132	29	..	102	48	..
	2018	*1,461	*1,210	31	..	156	64	..
	2019	*1,486	*1,210	31	..	156	89	..

Table 30

Net installed capacity of electricity plants by type

Megawatts

Total	Autoproducers			Main activity producers				
	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
37	..	..	37	32,177	29,664	2,513	..	..
37	..	..	37	26,096	24,300	1,796	..	..
216	..	..	216	27,196	25,400	1,796	..	..
216	..	..	216	27,196	25,400	1,796	..	..
1,387	523	2	862	16,198	16,166	5	..	27
1,591	608	5	978	16,236	16,205	4	..	27
2,018	653	7	1,358	16,001	15,964	2	..	35
2,918	654	7	2,257	16,575	16,538	2	..	35
63,756	23,907	596	39,253	274,454	174,392	49,521	41,482	9,059
69,366	23,831	452	45,083	272,831	173,261	49,562	39,132	10,876
75,535	25,187	455	49,893	271,643	171,469	49,582	38,042	12,550
80,404	24,654	398	55,352	266,070	168,760	49,635	33,083	14,592
*199	*199	..	..	4,276	3,770	12	..	494
*199	*199	..	..	4,307	3,691	12	..	604
*199	*199	..	..	4,647	3,546	12	..	1,089
*199	*199	..	..	5,028	3,546	12	..	1,470
*1	..	..	*1	*25,451	*22,500	2,696	..	255
*1	..	..	*1	*25,513	*22,500	2,726	..	287
*1	..	..	*1	25,269	21,902	2,756	..	611
*1	..	..	*1	23,964	20,079	2,778	..	1,107
..	..	..	..	7,671	2,960	4,701	..	*10
..	..	..	..	7,731	2,960	4,761	..	*10
..	..	..	..	8,160	3,360	4,790	..	*10
..	..	..	..	8,160	3,360	4,790	..	*10
7,461	6,656	..	805	103,742	68,903	6,485	23,116	5,238
9,037	8,247	..	790	113,913	78,130	6,489	22,529	6,765
9,862	8,875	..	987	117,613	80,138	6,490	21,850	9,135
9,203	7,963	..	1,240	122,901	80,211	6,508	23,250	12,932
22	20	..	*2	18,870	18,870	..	..	..
22	20	..	*2	18,743	18,743	..	..	..
74	70	..	*4	18,793	18,793	..	..	..
175	*70	..	105	19,196	19,196	..	..	..
*6	*6	..	..	*3,780	*716	*3,064	..	..
*6	*6	..	..	3,863	*728	3,135	..	..
*6	*6	..	..	*3,863	*728	*3,135	..	..
6	6	..	..	3,863	728	3,135	..	..
..	..	..	..	6,460	1,918	4,538	..	4
..	..	..	..	6,931	1,903	5,006	..	22
..	..	..	..	7,187	1,909	5,256	..	22
..	..	..	..	8,014	*1,909	6,083	..	22
*1,073	*1,050	..	23	2,589	2,309	280	..	..
*1,136	*1,100	..	36	2,562	2,309	*253	..	..
*1,142	*1,100	..	42	2,562	2,309	*253	..	..
*1,179	*1,100	..	79	2,562	2,309	*253	..	..
3,301	2,506	2	793	29,789	23,226	6,135	..	427
2,442	2,438	2	2	30,892	24,410	6,126	..	356
2,676	1,952	0	723	31,714	24,479	6,168	..	1,066
2,454	1,762	0	692	*31,699	*24,498	6,245	..	956
125	125	..	..	149	141	..	..	8
*125	*125	..	..	*152	*141	..	..	11
*125	*125	..	..	*251	*240	..	..	11
210	210	..	..	334	319	..	..	15
39	*10	29	..	*1,160	*1,093	..	..	67
39	*10	29	..	1,272	1,122	..	..	150
41	*10	31	..	*1,420	*1,200	..	..	220
41	*10	31	..	*1,445	*1,200	..	..	245

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Myanmar	2016	5,390	2,135	3,255	..	..	..	..
	2017	5,642	2,387	3,255	..	..	..	..
	2018	5,838	2,536	3,262	..	..	40	..
	2019	7,129	3,827	3,262	..	..	40	..
Nepal	2016	979	53	919	..	*6	*1	..
	2017	*1,142	53	*1,081	..	*6	*1	..
	2018	1,190	53	1,129	..	*6	*1	..
	2019	1,198	53	1,129	..	*14	*1	..
Oman	2016	8,165	8,163	..	..	..	2	..
	2017	8,228	8,220	..	..	..	8	..
	2018	8,450	8,442	..	..	..	8	..
	2019	8,501	8,442	..	..	50	9	..
Other Asia	2016	49,618	37,544	4,691	5,144	976	1,263	..
	2017	*51,183	*38,576	4,691	5,144	986	1,786	..
	2018	52,484	39,510	4,694	4,508	1,016	2,756	0
	2019	55,958	41,960	4,695	3,872	1,157	4,274	0
Pakistan	2016	26,698	17,874	7,115	750	340	400	219
	2017	31,246	21,518	7,115	1,090	792	400	331
	2018	34,875	24,325	7,270	1,430	1,042	436	372
	2019	37,681	24,386	9,757	1,430	1,242	436	430
Philippines	2016	21,869	15,127	3,634	..	427	765	1,916
	2017	23,341	16,470	3,643	..	427	885	1,916
	2018	24,464	17,480	3,717	..	427	896	1,944
	2019	26,187	19,135	3,776	..	427	921	1,928
Qatar	2016	*8,559	*8,559	..	..	..	..	..
	2017	*10,170	*10,170	..	..	..	..	..
	2018	*10,590	*10,590	..	..	..	..	..
	2019	*10,590	*10,590	..	..	..	..	..
Saudi Arabia	2016	74,726	74,702	..	..	0	24	..
	2017	80,508	80,471	..	..	3	34	..
	2018	*77,028	*76,941	..	..	3	84	..
	2019	*76,785	*76,373	..	..	3	409	..
Singapore	2016	13,445	13,348	..	..	..	97	..
	2017	13,612	13,500	..	..	..	112	..
	2018	13,614	13,500	..	..	..	115	..
	2019	12,563	12,292	..	..	..	271	..
Sri Lanka	2016	4,010	2,088	1,722	..	129	71	..
	2017	4,094	2,144	1,720	..	128	102	..
	2018	4,124	2,069	1,793	..	128	134	..
	2019	*4,334	*2,182	1,809	..	128	*215	..
State of Palestine	2016	185	160	..	..	..	25	..
	2017	190	160	..	..	..	30	..
	2018	200	160	..	..	..	40	..
	2019	240	160	..	..	..	80	..
Syrian Arab Republic	2016	9,687	8,192	1,494	..	1	..	..
	2017	*9,691	*8,199	1,490	..	1	1	..
	2018	10,059	8,567	1,490	..	1	1	..
	2019	10,060	8,567	1,490	..	1	2	..
Tajikistan	2016	6,577	719	5,858	..	..	..	..
	2017	*6,577	*719	*5,858	..	..	..	..
	2018	*6,577	*719	*5,858	..	..	..	..
	2019	6,451	718	5,733	..	..	..	..
Thailand	2016	43,147	34,721	3,467	..	*507	*4,451	0
	2017	44,024	35,226	3,467	..	*628	*4,702	0
	2018	45,179	35,426	*3,682	..	*1,103	*4,967	0
	2019	45,260	35,082	*3,682	..	*1,507	*4,988	0

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
800	628	172	..	4,590	1,507	3,083	..	..
1,354	1,182	172	..	4,288	1,205	3,083	..	..
2,694	1,543	1,111	40	3,144	993	2,151	..	..
3,719	2,568	1,111	40	3,410	1,259	2,151	..	..
*100	..	*100	..	879	53	819	..	*7
*100	..	*100	0	*1,041	53	*981	..	*7
*124	..	*124	0	1,065	53	1,005	..	*7
*124	..	*124	0	1,074	53	1,005	..	*15
..	..	..	..	8,165	8,163	..	..	2
..	..	..	..	8,228	8,220	..	..	8
..	..	..	..	8,450	8,442	..	..	8
..	..	..	..	8,501	8,442	..	..	59
17,113	15,186	..	1,927	32,505	22,358	4,691	5,144	312
17,536	15,076	..	2,460	*33,647	*23,500	4,691	5,144	312
19,028	15,577	..	3,451	33,456	23,933	4,694	4,508	321
20,529	15,534	..	4,995	35,429	26,426	4,695	3,872	436
686	467	..	219	26,012	17,407	7,115	750	740
812	481	..	331	30,434	21,037	7,115	1,090	1,192
863	491	..	372	34,012	23,834	7,270	1,430	1,478
920	490	..	430	36,761	23,896	9,757	1,430	1,678
*444	*428	*16	..	21,425	14,699	3,618	..	3,108
*613	*597	*16	..	22,728	15,873	3,627	..	3,228
*649	*633	*16	..	23,815	16,847	3,701	..	3,267
*656	*640	*16	..	25,531	18,495	3,760	..	3,276
*7,275	*7,275	..	..	*1,284	*1,284	..	..	..
*8,644	*8,644	..	..	*1,526	*1,526	..	..	..
*9,038	*9,038	..	..	*1,553	*1,553	..	..	..
*9,038	*9,038	..	..	*1,553	*1,553	..	..	..
12,124	12,124	..	..	62,602	62,578	..	..	24
14,626	14,626	..	..	65,882	65,845	..	..	37
*19,235	*19,235	..	..	*57,793	*57,706	..	..	87
*33,600	*33,600	..	..	*43,185	*42,773	..	..	412
418	418	..	..	13,027	12,931	..	..	97
569	569	..	..	13,043	12,931	..	..	112
569	569	..	..	13,046	12,931	..	..	115
552	552	..	..	12,011	11,740	..	..	271
412	24	338	50	3,598	2,064	1,384	..	150
436	29	356	51	3,658	2,115	1,364	..	179
482	*32	394	*56	3,642	2,037	1,399	..	206
534	*34	410	*90	*3,800	*2,148	1,399	..	253
33	20	..	13	153	140	..	..	13
35	20	..	15	155	140	..	..	15
40	20	..	20	160	140	..	..	20
60	20	..	40	180	140	..	..	40
912	912	..	..	8,775	7,280	1,494	..	1
*912	*912	..	..	*8,779	*7,287	1,490	..	2
972	972	..	..	9,087	7,595	1,490	..	2
972	972	..	..	9,088	7,595	1,490	..	3
..	..	..	..	6,577	719	5,858	..	..
..	..	..	..	*6,577	*719	*5,858	..	..
..	..	..	..	*6,577	*719	*5,858	..	..
..	..	..	..	6,451	718	5,733	..	..
*16,964	*14,949	*15	*2,000	26,183	19,772	3,452	..	*2,958
*16,964	*14,949	*15	*2,000	27,060	20,277	3,452	..	*3,330
*16,964	*14,949	*15	*2,000	28,215	20,477	*3,667	..	*4,071
16,964	14,949	*15	*2,000	28,296	20,133	*3,667	..	*4,495

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Timor-Leste	2016	283	283	0	..	..	1	..
	2017	283	283	0	..	..	1	..
	2018	283	283	0	..	..	1	..
	2019	283	283	0	..	..	1	..
Turkey	2016	78,497	44,278	26,681	..	5,751	833	954
	2017	85,201	46,762	27,273	..	6,516	3,421	1,229
	2018	88,551	46,712	28,291	..	7,006	5,062	1,480
	2019	91,267	47,284	28,503	..	7,591	5,995	1,894
Turkmenistan	2016	4,675	4,674	1	..	..	..	..
	2017	5,201	5,200	1	..	..	..	..
	2018	5,201	5,200	1	..	..	..	..
	2019	*5,201	*5,200	1	..	..	..	..
United Arab Emirates	2016	28,761	28,638	..	..	..	123	..
	2017	30,371	30,048	..	..	..	323	..
	2018	*30,934	*30,349	..	..	..	585	..
	2019	*33,042	*31,287	..	..	..	1,755	..
Uzbekistan	2016	14,104	12,222	1,880	..	..	2	..
	2017	14,378	12,516	1,858	..	1	3	..
	2018	14,196	12,276	1,915	..	1	4	..
	2019	15,948	14,032	1,908	..	*5	4	..
Viet Nam	2016	*43,416	*25,783	17,461	..	166	6	..
	2017	*44,334	*25,953	18,161	..	211	9	..
	2018	*44,815	*26,125	18,341	..	243	106	..
	2019	55,187	30,690	18,421	..	381	5,695	..
Yemen	2016	1,769	1,519	..	..	..	*250	..
	2017	*1,769	*1,519	..	..	..	*250	..
	2018	*1,769	*1,519	..	..	..	*250	..
	2019	*1,769	*1,519	..	..	..	250	..
Europe	2016	1,402,025	702,347	268,919	166,172	155,585	106,059	2,943
	2017	1,419,304	696,723	270,875	165,905	170,470	112,267	3,065
	2018	1,451,263	706,203	271,914	166,808	181,849	121,372	3,118
	2019	1,470,652	691,460	273,574	166,682	196,355	139,487	3,094
Albania	2016	1,925	*123	1,801	..	..	1	..
	2017	2,172	123	2,048	..	..	1	..
	2018	2,229	123	2,105	..	..	1	..
	2019	2,361	123	2,223	..	..	15	..
Andorra	2016	51	5	46	..	..	0	..
	2017	52	5	46	..	..	1	..
	2018	53	5	46	..	..	2	..
	2019	53	5	46	..	..	2	..
Austria	2016	25,217	7,273	14,117	..	2,730	1,096	1
	2017	24,920	6,613	14,150	..	2,887	1,269	1
	2018	25,637	6,532	14,516	..	3,133	1,455	1
	2019	25,901	6,377	14,597	..	3,224	1,702	1
Belarus	2016	10,007	9,826	72	..	62	47	..
	2017	10,146	9,884	98	..	84	80	..
	2018	10,151	9,808	97	..	92	154	..
	2019	10,183	9,820	97	..	112	154	..
Belgium	2016	21,670	8,629	1,425	5,913	2,370	3,329	4
	2017	22,226	8,478	1,417	5,918	2,788	3,621	4
	2018	22,805	8,197	1,418	5,918	3,268	4,000	4
	2019	24,061	8,213	1,414	5,930	3,863	4,637	4
Bosnia and Herzegovina	2016	4,364	2,200	2,155	..	..	9	..
	2017	4,522	2,295	2,211	..	..	16	..
	2018	4,440	2,135	2,236	..	51	18	..
	2019	4,485	2,137	2,239	..	87	22	..

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	283	283	0	..	1
..	..	..	..	283	283	0	..	1
..	..	..	..	283	283	0	..	1
..	..	..	..	283	283	0	..	1
5,277	4,223	550	504	73,220	40,055	26,131	..	7,034
6,190	4,417	551	1,222	79,011	42,345	26,722	..	9,944
6,437	4,450	551	1,436	82,114	42,262	27,740	..	12,112
7,588	5,222	552	1,814	83,679	42,062	27,951	..	13,666
..	..	..	..	4,675	4,674	1	..	..
..	..	..	..	5,201	5,200	1	..	..
..	..	..	..	5,201	5,200	1	..	..
..	..	..	..	*5,201	*5,200	1	..	..
..	..	..	..	28,761	28,638	..	..	123
..	..	..	..	30,371	30,048	..	..	323
..	..	..	..	*30,934	*30,349	..	..	585
..	..	..	..	*33,042	*31,287	..	..	1,755
..	..	..	..	14,104	12,222	1,880	..	2
..	..	..	..	14,378	12,516	1,858	..	4
..	..	..	..	14,196	12,276	1,915	..	4
..	..	..	..	15,948	14,032	1,908	..	*9
*5,391	*5,055	*330	*6	*38,025	*20,728	17,131	..	166
*5,483	*5,125	*352	*6	*38,851	*20,828	17,809	..	214
*5,483	*5,125	*352	*6	*39,332	*21,000	17,989	..	343
*5,483	*5,125	*352	*6	49,704	25,565	18,069	..	6,070
*367	*117	..	*250	1,402	1,402	..	..	..
*367	*117	..	*250	*1,402	*1,402	..	..	..
*367	*117	..	*250	*1,402	*1,402	..	..	..
367	*117	..	250	*1,402	*1,402	..	..	..
119,726	89,261	3,426	27,039	1,282,299	613,086	265,493	166,172	237,549
123,132	90,782	3,394	28,956	1,296,172	605,942	267,480	165,905	256,846
130,148	94,932	3,380	31,836	1,321,115	611,270	268,534	166,808	274,503
136,221	95,508	3,400	37,313	1,334,431	595,952	270,174	166,682	301,623
*25	*25	..	..	1,900	*98	1,801	..	1
25	25	..	..	2,147	98	2,048	..	1
25	25	..	..	2,204	98	2,105	..	1
25	25	..	..	2,336	98	2,223	..	15
..	..	..	..	51	5	46	..	0
..	..	..	..	52	5	46	..	1
..	..	..	..	53	5	46	..	2
..	..	..	..	53	5	46	..	2
2,258	1,712	546	..	22,959	5,561	13,571	..	3,827
1,773	1,341	432	..	23,147	5,272	13,718	..	4,157
1,716	1,288	428	..	23,921	5,244	14,088	..	4,589
2,219	1,784	435	..	23,682	4,593	14,162	..	4,927
852	841	4	7	9,155	8,985	68	..	102
817	806	3	8	9,329	9,078	95	..	156
969	899	2	68	9,182	8,909	95	..	178
977	897	2	78	9,206	8,923	95	..	188
4,819	1,467	..	3,352	16,851	7,162	1,425	5,913	2,351
5,109	1,456	..	3,653	17,117	7,022	1,417	5,918	2,760
5,561	1,529	..	4,032	17,244	6,668	1,418	5,918	3,240
6,405	1,735	..	4,670	17,656	6,478	1,414	5,930	3,834
*230	*230	..	..	4,134	1,970	2,155	..	9
*230	*230	..	..	4,292	2,065	2,211	..	16
70	70	..	..	4,370	2,065	2,236	..	69
71	71	..	..	4,414	2,066	2,239	..	109

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Bulgaria	2016	10,904	3,822	3,223	1,967	699	1,028	165
	2017	11,069	3,785	3,372	1,967	698	1,036	211
	2018	11,530	4,220	3,379	2,008	699	1,033	191
	2019	11,433	4,097	3,378	2,006	703	1,048	*200
Croatia	2016	4,794	2,082	2,175	..	482	56	..
	2017	4,970	2,141	2,193	..	576	60	..
	2018	5,006	2,142	2,200	..	586	68	10
	2019	4,712	1,771	2,200	..	646	85	10
Czechia	2016	21,989	13,087	2,262	4,290	282	2,068	..
	2017	22,267	13,334	2,265	4,290	308	2,070	..
	2018	22,295	13,350	2,264	4,290	316	2,075	..
	2019	22,011	13,031	2,265	4,290	339	2,086	..
Denmark	2016	14,226	8,120	9	..	5,246	851	..
	2017	14,318	7,916	7	..	5,489	906	..
	2018	14,984	7,864	7	..	6,115	998	..
	2019	15,166	7,976	7	..	6,103	1,080	..
Estonia	2016	2,577	2,251	6	..	310	10	..
	2017	2,542	2,208	7	..	312	15	..
	2018	2,819	2,470	7	..	310	32	..
	2019	2,746	2,303	6	..	316	121	..
Faeroe Islands	2016	120	67	38	..	14	..	..
	2017	121	69	38	..	14	..	..
	2018	121	69	38	..	14	..	..
	2019	131	78	38	..	14	0	..
Finland	2016	16,289	8,672	3,249	2,764	1,565	39	..
	2017	17,174	8,997	3,272	2,779	2,044	82	..
	2018	17,154	8,902	3,287	2,784	2,041	140	..
	2019	17,472	8,899	3,273	2,794	2,284	222	..
France	2016	133,151	24,895	25,621	63,130	11,567	7,702	236
	2017	133,089	21,907	25,707	63,130	13,499	8,610	235
	2018	135,104	21,422	25,727	63,130	14,900	9,691	234
	2019	136,242	19,791	25,869	63,130	16,427	10,795	230
Germany	2016	208,217	95,716	11,207	10,799	49,435	40,679	381
	2017	215,326	95,134	11,120	10,799	55,580	42,293	400
	2018	228,795	103,030	10,684	10,799	58,721	45,158	403
	2019	231,821	101,389	10,733	9,525	60,721	49,047	406
Gibraltar	2016	*43	*43	..	..	..	..	0
	2017	*43	*43	..	..	..	..	0
	2018	*43	*43	..	..	..	..	0
	2019	*43	*43	..	..	..	..	0
Greece	2016	19,165	10,799	3,392	..	2,370	2,604	..
	2017	19,427	10,805	3,392	..	2,624	2,606	..
	2018	19,582	10,644	3,409	..	2,877	2,652	..
	2019	20,479	10,644	3,412	..	3,589	2,834	..
Guernsey	2016	*115	*115	..	..	..	..	..
	2017	*132	*132	..	..	..	..	..
	2018	*132	*132	..	..	..	0	..
	2019	*132	*132	..	..	..	0	..
Hungary	2016	8,758	6,100	57	2,000	329	235	37
	2017	8,860	6,090	57	2,000	329	344	40
	2018	9,256	6,088	57	2,013	329	728	41
	2019	9,914	6,079	58	2,013	323	1,400	41
Iceland	2016	2,772	117	1,987	..	3	..	665
	2017	2,823	116	1,995	..	2	..	710
	2018	2,973	116	2,099	..	2	..	756
	2019	2,979	116	2,104	..	2	..	756

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
352	187	..	165	10,552	3,635	3,223	1,967	1,727
445	234	..	211	10,624	3,551	3,372	1,967	1,734
425	234	..	191	11,105	3,986	3,379	2,008	1,732
*361	161	..	*200	11,072	3,936	3,378	2,006	1,751
*167	*165	*2	..	4,627	1,917	2,173	..	537
160	157	3	..	4,811	1,984	2,190	..	636
165	162	3	..	4,841	1,980	2,197	..	664
165	162	3	..	4,547	1,609	2,197	..	741
1,893	1,702	191	..	20,096	11,385	2,071	4,290	2,350
1,936	1,752	184	..	20,331	11,582	2,081	4,290	2,378
1,928	1,745	183	..	20,367	11,605	2,081	4,290	2,391
1,925	1,741	184	..	20,086	11,290	2,081	4,290	2,425
1,470	619	..	851	12,756	7,501	9	..	5,246
1,536	630	..	906	12,782	7,286	7	..	5,489
1,639	641	..	998	13,345	7,223	7	..	6,115
1,672	592	..	1,080	13,494	7,384	7	..	6,103
31	25	..	6	2,546	2,226	6	..	314
27	25	..	2	2,515	2,183	7	..	325
26	25	..	1	2,793	2,445	7	..	341
24	23	..	1	2,722	2,280	6	..	436
..	..	..	..	120	67	38	..	14
..	..	..	..	121	69	38	..	14
..	..	..	..	121	69	38	..	14
..	..	..	..	131	78	38	..	14
2,068	1,846	186	36	14,221	6,826	3,063	2,764	1,568
2,306	2,039	188	79	14,868	6,958	3,084	2,779	2,047
2,364	2,038	189	137	14,790	6,864	3,098	2,784	2,044
2,462	2,035	208	219	15,010	6,864	3,065	2,794	2,287
6,314	3,830	186	2,298	126,837	21,065	25,435	63,130	17,207
6,467	3,703	190	2,575	126,622	18,204	25,517	63,130	19,770
7,700	4,587	185	2,929	127,404	16,836	25,542	63,130	21,896
8,206	4,725	194	3,287	128,036	15,066	25,674	63,130	24,166
10,588	10,307	43	238	197,629	85,409	11,164	10,799	90,257
11,579	11,310	42	227	203,747	83,824	11,078	10,799	98,046
11,988	11,729	32	227	216,807	91,301	10,652	10,799	104,055
12,034	11,819	35	180	219,787	89,570	10,698	9,525	109,994
..	..	..	..	*43	*43	..	..	0
..	..	..	..	*43	*43	..	..	0
..	..	..	..	*43	*43	..	..	0
..	..	..	..	*43	*43	..	..	0
568	568	..	..	18,597	10,231	3,392	..	4,974
571	571	..	..	18,856	10,234	3,392	..	5,230
568	568	..	..	19,014	10,076	3,409	..	5,529
568	568	..	..	19,911	10,076	3,412	..	6,423
..	..	..	..	*115	*115	..	..	..
..	..	..	..	*132	*132	..	..	..
..	..	..	..	*132	*132	..	..	0
..	..	..	..	*132	*132	..	..	0
468	222	..	246	8,290	5,878	57	2,000	355
592	253	..	339	8,268	5,837	57	2,000	374
735	251	..	484	8,521	5,837	57	2,013	614
1,025	286	..	739	8,889	5,793	58	2,013	1,025
..	..	..	..	2,772	117	1,987	..	668
..	..	..	..	2,823	116	1,995	..	712
..	..	..	..	2,973	116	2,099	..	758
..	..	..	..	2,979	116	2,104	..	758

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Ireland	2016	10,017	6,696	529	..	2,786	6	..
	2017	10,608	6,745	529	..	3,318	16	..
	2018	10,982	6,752	529	..	3,676	24	..
	2019	11,137	6,417	529	..	4,160	31	..
Isle of Man	2016	184	183	1	..	..	..	..
	2017	187	186	1	..	..	..	..
	2018	187	186	1	..	..	..	..
	2019	187	186	1	..	..	..	..
Italy	2016	114,162	62,096	22,298	..	9,384	19,283	1,101
	2017	114,240	61,289	22,426	..	9,737	19,682	1,106
	2018	115,220	61,276	22,498	..	10,230	20,108	1,108
	2019	116,435	61,284	22,541	..	10,679	20,865	1,066
Jersey	2016	78	78	..	..	..	..	..
	2017	78	78	..	..	..	..	..
	2018	78	78	..	..	..	..	..
	2019	*78	*78	..	..	..	..	..
Kosovo	2016	1,009	915	86	..	1	7	..
	2017	1,409	1,288	80	..	34	7	..
	2018	1,409	1,288	80	..	34	7	..
	2019	*1,602	*1,288	213	..	91	11	..
Latvia	2016	2,927	1,292	1,564	..	70	1	0
	2017	2,941	1,299	1,564	..	77	1	..
	2018	2,915	1,270	1,565	..	78	2	..
	2019	2,938	1,270	1,587	..	78	3	..
Liechtenstein	2016	*23	*1	*10	..	..	*12	..
	2017	*24	*1	*10	..	..	*13	..
	2018	*26	*1	*10	..	..	*15	..
	2019	*27	*1	*10	..	..	*16	..
Lithuania	2016	3,665	2,184	877	..	509	70	25
	2017	3,326	1,832	877	..	518	74	25
	2018	3,354	1,837	877	..	533	82	25
	2019	3,378	1,839	877	..	534	103	25
Luxembourg	2016	1,710	138	1,330	..	120	122	..
	2017	1,709	130	1,331	..	120	128	..
	2018	1,715	131	1,330	..	123	131	..
	2019	1,778	152	1,330	..	136	160	..
Malta	2016	573	480	..	..	0	94	..
	2017	706	595	..	..	0	112	..
	2018	726	595	..	..	0	131	..
	2019	748	595	..	..	0	154	..
Montenegro	2016	870	219	651	..	..	..	..
	2017	949	225	652	..	72	..	..
	2018	999	225	652	..	118	3	..
	2019	1,001	225	652	..	118	5	..
Netherlands	2016	34,262	27,266	37	485	4,257	2,135	82
	2017	33,822	26,105	37	485	4,202	2,911	82
	2018	35,110	25,505	37	485	4,393	4,608	82
	2019	37,086	24,821	37	485	4,484	7,177	82
North Macedonia	2016	1,823	1,109	660	..	37	17	..
	2017	1,836	1,111	671	..	37	17	..
	2018	1,839	1,111	674	..	37	17	..
	2019	1,844	1,112	678	..	37	17	..
Norway	2016	33,810	1,073	31,817	..	883	..	37
	2017	34,230	1,074	31,912	..	1,207	..	37
	2018	35,418	1,073	32,530	..	1,710	68	37
	2019	36,912	1,074	32,797	..	2,914	90	37

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
367	345	..	22	9,650	6,351	529	..	2,770
385	350	..	36	10,222	6,395	529	..	3,298
403	356	..	47	10,578	6,396	529	..	3,653
421	364	..	57	10,716	6,053	529	..	4,134
8	8	..	..	176	175	1	..	..
8	8	..	..	180	179	1	..	..
8	8	..	..	180	179	1	..	..
8	8	..	..	180	179	1	..	..
4,834	4,658	117	59	109,328	57,438	22,181	..	29,709
5,034	4,863	119	52	109,206	56,426	22,307	..	30,473
5,521	5,347	105	69	109,699	55,929	22,393	..	31,377
5,432	5,256	106	70	111,003	56,028	22,435	..	32,540
*28	*28	..	..	50	50	..	..	..
*28	*28	..	..	50	50	..	..	..
*28	*28	..	..	50	50	..	..	..
*28	*28	..	..	*50	*50	..	..	..
..	..	..	..	1,009	915	86	..	8
..	..	..	..	1,409	1,288	80	..	40
..	..	..	..	1,409	1,288	80	..	40
0	..	..	0	*1,602	*1,288	213	..	101
44	41	1	2	2,883	1,251	1,563	..	69
33	31	1	1	2,908	1,268	1,563	..	77
34	30	2	2	2,881	1,239	1,563	..	78
34	29	1	3	2,904	1,241	1,585	..	78
..	..	..	..	*23	*1	*10	..	*12
..	..	..	..	*24	*1	*10	..	*13
..	..	..	..	*26	*1	*10	..	*15
..	..	..	..	*27	*1	*10	..	*16
278	253	..	25	3,387	1,931	877	..	579
280	255	..	25	3,046	1,577	877	..	592
280	255	..	25	3,074	1,582	877	..	615
282	257	..	25	3,096	1,582	877	..	637
201	77	2	122	1,509	61	1,328	..	120
186	55	2	128	1,523	75	1,328	..	120
185	52	2	131	1,530	79	1,328	..	123
215	53	2	160	1,563	99	1,328	..	136
98	5	..	94	475	475	..	..	..
116	5	..	112	590	590	..	..	..
136	5	..	131	590	590	..	..	..
158	5	..	154	590	590	..	..	..
..	..	..	..	870	219	651	..	..
..	..	..	..	949	225	652	..	72
..	..	..	..	999	225	652	..	121
..	..	..	..	1,001	225	652	..	123
7,543	4,920	..	2,623	26,719	22,346	37	485	3,851
8,265	4,919	..	3,346	25,557	21,186	37	485	3,849
10,144	5,444	..	4,700	24,966	20,061	37	485	4,383
12,314	5,405	..	6,909	24,772	19,416	37	485	4,834
0	0	..	..	1,823	1,109	660	..	54
0	0	..	..	1,836	1,111	671	..	54
..	..	..	..	1,839	1,111	674	..	54
..	..	..	..	1,844	1,112	678	..	54
590	553	..	37	33,220	520	31,817	..	883
576	539	..	37	33,654	535	31,912	..	1,207
657	552	..	105	34,761	521	32,530	..	1,710
679	552	..	127	36,233	522	32,797	..	2,914

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Poland	2016	38,105	29,783	2,386	..	5,747	187	2
	2017	42,850	34,412	2,390	..	5,758	287	2
	2018	43,046	34,314	2,391	..	5,766	562	12
	2019	43,440	33,638	2,397	..	5,838	1,539	28
Portugal	2016	20,613	7,990	6,960	..	5,125	513	25
	2017	20,933	7,975	7,226	..	5,124	579	30
	2018	21,186	8,080	7,236	..	5,172	667	30
	2019	21,575	8,160	7,262	..	5,223	901	29
Republic of Moldova	2016	463	443	16	..	2	2	..
	2017	477	450	16	..	9	2	..
	2018	478	425	16	..	34	3	..
	2019	486	430	16	..	35	5	..
Romania	2016	23,580	11,038	6,734	1,411	3,025	1,372	..
	2017	23,572	11,067	6,691	1,411	3,029	1,374	..
	2018	23,553	11,023	6,701	1,411	3,032	1,386	..
	2019	20,908	8,366	6,686	1,411	3,038	1,407	..
Russian Federation	2016	264,730	185,815	51,016	27,189	96	536	78
	2017	267,639	187,701	51,241	27,952	98	574	74
	2018	271,600	190,215	51,333	29,140	161	678	74
	2019	*275,820	*191,946	*51,800	30,300	*600	*1,100	*74
Serbia	2016	7,410	4,352	3,030	..	17	11	..
	2017	7,416	4,343	3,038	..	25	10	..
	2018	8,066	4,851	2,936	..	264	*15	..
	2019	7,896	4,413	3,074	..	398	11	..
Slovakia	2016	7,742	2,710	2,524	1,940	3	533	32
	2017	7,671	2,645	2,523	1,940	4	528	31
	2018	7,625	2,651	2,528	1,940	4	471	31
	2019	7,724	2,639	2,527	1,940	4	590	24
Slovenia	2016	3,536	1,318	1,293	688	5	232	..
	2017	3,619	1,332	1,347	688	5	247	..
	2018	3,798	1,514	1,344	688	5	247	..
	2019	3,820	1,512	1,351	688	5	264	..
Spain	2016	105,945	48,400	20,080	7,399	22,990	7,017	59
	2017	103,863	46,456	20,079	7,117	23,124	7,027	59
	2018	103,737	46,009	20,080	7,117	23,405	7,068	59
	2019	109,970	45,821	20,114	7,117	25,583	11,277	59
Sweden	2016	41,511	8,689	16,466	9,768	6,435	153	..
	2017	39,798	7,442	16,502	8,999	6,611	244	..
	2018	41,223	8,408	16,431	8,656	7,300	428	..
	2019	42,824	8,343	16,462	8,624	8,681	714	..
Switzerland	2016	20,839	961	14,806	3,333	75	1,664	..
	2017	21,614	946	15,354	3,333	75	1,906	..
	2018	22,063	940	15,542	3,333	75	2,173	..
	2019	22,422	942	15,574	3,333	75	2,498	..
Ukraine	2016	57,335	36,475	6,172	13,835	428	425	..
	2017	52,764	31,492	6,213	13,835	465	759	..
	2018	51,508	29,753	6,243	13,835	476	1,201	..
	2019	51,444	28,535	6,325	13,835	796	1,953	..
United Kingdom	2016	98,749	56,702	4,733	9,261	16,126	11,914	13
	2017	104,824	58,430	4,770	9,261	19,585	12,760	18
	2018	108,294	59,400	4,773	9,261	21,767	13,073	20
	2019	104,847	53,350	4,773	9,261	24,095	13,346	22
Oceania	2016	79,932	52,811	14,179	..	5,076	6,853	1,014
	2017	79,460	51,123	14,189	..	5,580	7,555	1,014
	2018	81,944	51,341	14,478	..	6,211	8,876	1,037
	2019	86,695	50,841	14,490	..	7,050	13,277	1,037

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
2,078	1,888	1	189	36,027	27,895	2,385	..	5,747
2,773	2,483	1	289	40,077	31,929	2,390	..	5,758
3,669	3,094	1	574	39,377	31,220	2,391	..	5,766
4,680	3,112	1	1,567	38,760	30,526	2,397	..	5,838
2,043	1,781	6	256	18,570	6,209	6,954	..	5,407
2,084	1,769	6	309	18,849	6,205	7,220	..	5,424
2,236	1,872	6	358	18,950	6,208	7,230	..	5,511
2,409	1,879	6	524	19,166	6,281	7,256	..	5,629
113	113	..	..	350	330	16	..	4
124	120	..	4	353	330	16	..	7
120	95	..	25	358	330	16	..	12
123	100	..	23	363	330	16	..	17
3,164	2,151	90	923	20,416	8,887	6,644	1,411	3,474
3,022	2,159	81	782	20,550	8,908	6,610	1,411	3,621
2,985	2,150	83	752	20,568	8,873	6,618	1,411	3,666
2,270	1,696	83	491	18,638	6,670	6,603	1,411	3,954
24,471	24,021	450	..	240,259	161,794	50,566	27,189	710
25,250	24,789	461	..	242,389	162,912	50,779	27,952	746
25,623	25,161	462	..	245,977	165,054	50,871	29,140	913
*25,622	*25,160	*462	..	*250,198	*166,786	*51,338	30,300	*1,774
129	129	..	..	7,281	4,223	3,030	..	28
120	120	..	..	7,296	4,223	3,038	..	35
118	118	..	..	7,948	4,733	2,936	..	279
152	152	..	..	7,744	4,261	3,074	..	409
1,099	604	31	464	6,643	2,106	2,493	1,940	104
1,076	633	30	413	6,595	2,012	2,493	1,940	150
1,107	769	32	306	6,518	1,882	2,496	1,940	200
1,201	766	33	402	6,523	1,873	2,494	1,940	216
388	46	116	226	3,148	1,272	1,177	688	11
402	46	116	240	3,217	1,286	1,231	688	12
403	47	116	240	3,395	1,467	1,228	688	12
422	44	121	257	3,398	1,468	1,230	688	12
6,589	6,157	369	63	99,356	42,243	19,711	7,399	30,003
6,609	6,157	369	83	97,254	40,299	19,710	7,117	30,127
6,683	6,210	369	104	97,054	39,799	19,711	7,117	30,428
6,501	5,979	369	153	103,469	39,842	19,745	7,117	36,765
*1,206	*1,194	12	..	40,305	7,495	16,454	9,768	6,588
1,285	1,267	18	..	38,513	6,175	16,484	8,999	6,855
1,448	1,430	18	..	39,775	6,978	16,413	8,656	7,728
1,411	1,393	18	..	41,413	6,950	16,444	8,624	9,395
3,103	744	695	1,664	17,736	217	14,111	3,333	75
3,328	689	733	1,906	18,286	257	14,621	3,333	75
3,607	683	751	2,173	18,456	257	14,791	3,333	75
3,910	683	729	2,498	18,512	259	14,845	3,333	75
3,469	3,462	5	2	53,866	33,013	6,167	13,835	851
2,265	2,227	7	31	50,499	29,265	6,206	13,835	1,193
2,139	2,091	5	43	49,369	27,662	6,238	13,835	1,634
2,171	2,071	..	100	49,273	26,464	6,325	13,835	2,649
25,780	12,338	373	13,069	72,969	44,364	4,360	9,261	14,984
26,310	12,739	409	13,163	78,514	45,691	4,361	9,261	19,201
26,735	13,345	407	12,984	81,559	46,055	4,366	9,261	21,877
27,639	13,892	408	13,339	77,208	39,458	4,365	9,261	24,125
12,142	5,644	105	6,392	67,791	47,167	14,073	..	6,551
12,651	5,555	99	6,998	66,809	45,568	14,090	..	7,152
13,373	5,854	98	7,421	68,571	45,487	14,380	..	8,704
15,480	6,219	98	9,163	71,215	44,623	14,392	..	12,200

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
American Samoa	2016	46	42	..	..	..	4	..
	2017	46	42	..	..	..	4	..
	2018	47	42	..	..	..	5	..
	2019	47	42	..	..	..	5	..
Australia	2016	67,142	47,857	8,271	..	4,324	6,689	1
	2017	66,632	46,194	8,271	..	4,812	7,354	1
	2018	68,902	46,311	8,523	..	5,442	8,626	0
	2019	73,528	45,756	8,523	..	6,279	12,970	0
Cook Islands	2016	*15	*11	..	..	..	4	..
	2017	*15	*11	..	..	..	4	..
	2018	*17	*11	..	..	..	6	..
	2019	*18	*11	..	..	..	7	..
Fiji	2016	328	*172	130	..	21	5	..
	2017	*360	*194	138	..	*21	7	..
	2018	*363	*194	138	..	*21	10	..
	2019	*363	*194	138	..	*21	10	..
French Polynesia	2016	258	185	47	..	0	26	..
	2017	268	185	47	..	0	36	..
	2018	271	186	47	..	0	38	..
	2019	277	186	49	..	0	41	..
Guam	2016	498	472	..	..	0	26	..
	2017	446	420	..	..	0	26	..
	2018	446	420	..	..	0	26	..
	2019	445	420	..	..	0	25	..
Kiribati	2016	*11	*8	..	..	..	3	..
	2017	*11	*8	..	..	..	3	..
	2018	*11	*8	..	..	..	3	..
	2019	*11	*8	..	..	..	3	..
Marshall Islands	2016	*38	*36	..	..	..	2	..
	2017	*39	*37	..	..	..	2	..
	2018	*39	*37	..	..	..	2	..
	2019	*39	*37	..	..	..	2	..
Micronesia (Fed. States of)	2016	*34	*32	2	..	..	1	..
	2017	*34	*32	*2	..	..	1	..
	2018	*36	*32	*2	..	1	2	..
	2019	*36	*32	*2	..	1	2	..
Nauru	2016	*7	*6	..	..	..	1	..
	2017	*8	*7	..	..	..	1	..
	2018	*14	*13	..	..	..	1	..
	2019	*14	*13	..	..	..	1	..
New Caledonia	2016	1,001	875	78	..	38	10	..
	2017	*1,020	*875	78	..	54	13	..
	2018	*1,040	*875	78	..	54	*33	..
	2019	*1,066	*875	78	..	54	*59	..
New Zealand	2016	9,290	2,210	5,381	..	689	53	957
	2017	9,311	2,213	5,381	..	689	71	957
	2018	9,358	2,216	5,381	..	689	91	981
	2019	9,391	2,216	5,389	..	689	116	981
Niue	2016	*2	*2	..	..	..	0	..
	2017	*2	*2	..	..	..	0	..
	2018	*2	*2	..	..	..	0	..
	2019	*3	*2	..	..	..	1	..
Northern Mariana Islands	2016	95	95	..	..	..	..	..
	2017	*95	*95	..	..	..	..	..
	2018	*95	*95	..	..	..	..	..
	2019	*98	*98	..	..	..	..	..

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	46	42	..	..	4
..	..	..	..	46	42	..	..	4
..	..	..	..	47	42	..	..	5
..	..	..	..	47	42	..	..	5
11,121	4,863	..	6,258	56,021	42,994	8,271	..	4,756
11,602	4,758	..	6,844	55,030	41,436	8,271	..	5,323
12,299	5,057	..	7,242	56,603	41,254	8,523	..	6,826
14,374	5,422	..	8,952	59,154	40,334	8,523	..	10,297
..	..	..	..	*15	*11	..	..	4
..	..	..	..	*15	*11	..	..	4
..	..	..	..	*17	*11	..	..	6
..	..	..	..	*18	*11	..	..	7
*42	*42	..	..	286	*130	130	..	26
*54	*54	..	..	*306	*140	138	..	*28
54	54	..	..	*309	*140	138	..	*31
*54	*54	..	..	*309	*140	138	..	*31
..	..	..	..	258	185	47	..	27
..	..	..	..	268	185	47	..	36
..	..	..	..	271	186	47	..	38
..	..	..	..	277	186	49	..	41
..	..	..	..	498	472	..	..	26
..	..	..	..	446	420	..	..	26
..	..	..	..	446	420	..	..	26
..	..	..	..	445	420	..	..	25
*1	*1	..	..	*10	*7	..	..	3
*1	*1	..	..	*10	*7	..	..	3
*1	*1	..	..	*10	*7	..	..	3
*1	*1	..	..	*10	*7	..	..	3
..	..	..	..	*38	*36	..	..	2
..	..	..	..	*39	*37	..	..	2
..	..	..	..	*39	*37	..	..	2
..	..	..	..	*39	*37	..	..	2
..	..	..	..	*34	*32	2	..	1
..	..	..	..	*34	*32	*2	..	1
..	..	..	..	*36	*32	*2	..	3
..	..	..	..	*36	*32	*2	..	3
..	..	..	..	*7	*6	..	..	1
..	..	..	..	*8	*7	..	..	1
..	..	..	..	*14	*13	..	..	1
..	..	..	..	*14	*13	..	..	1
*61	*60	..	1	940	815	78	..	46
*63	*60	..	3	*957	*815	78	..	64
*68	*60	..	*8	*972	*815	78	..	79
*75	*60	..	*15	*991	*815	78	..	98
301	221	3	77	8,989	1,989	5,378	..	1,622
323	225	3	95	8,988	1,988	5,378	..	1,622
343	225	3	115	9,015	1,991	5,378	..	1,646
368	225	3	140	9,023	1,991	5,386	..	1,646
..	..	..	..	*2	*2	..	..	0
..	..	..	..	*2	*2	..	..	0
..	..	..	..	*2	*2	..	..	0
..	..	..	..	*3	*2	..	..	1
..	..	..	..	95	95	..	..	..
..	..	..	..	*95	*95	..	..	..
..	..	..	..	*95	*95	..	..	..
..	..	..	..	*98	*98	..	..	..

Table 30

Net installed capacity of electricity plants by type

Megawatts

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Palau	2016	40	39	..	..	..	*1	..
	2017	*40	*39	..	..	..	*1	..
	2018	*40	*39	..	..	..	*2	..
	2019	*41	*39	..	..	..	*2	..
Papua New Guinea	2016	*971	*656	*258	..	..	1	56
	2017	*971	*656	*258	..	..	1	56
	2018	*1,102	*750	295	..	..	1	56
	2019	*1,152	*800	*295	..	..	1	56
Samoa	2016	*52	*23	*11	..	1	17	..
	2017	53	*23	13	..	1	17	..
	2018	*54	*23	13	..	1	*18	..
	2019	*56	*23	14	..	1	*18	..
Solomon Islands	2016	*38	*36	0	..	..	2	..
	2017	*39	*36	0	..	..	3	..
	2018	*39	*36	0	..	..	3	..
	2019	*40	*36	0	..	..	3	..
Tonga	2016	20	17	..	..	0	2	..
	2017	24	18	..	..	0	6	..
	2018	24	18	..	..	0	6	..
	2019	25	18	..	..	1	6	..
Tuvalu	2016	*5	*3	..	..	..	2	..
	2017	*5	*3	..	..	..	2	..
	2018	5	3	..	..	..	2	..
	2019	*5	*3	..	..	..	2	..
Vanuatu	2016	32	26	1	..	4	1	..
	2017	33	26	1	..	3	3	..
	2018	31	24	1	..	3	3	..
	2019	33	25	1	..	3	3	..
Wallis and Futuna Is.	2016	9	9	0	..	..	0	..
	2017	9	9	0	..	..	0	..
	2018	9	9	0	..	..	0	..
	2019	9	9	0	..	..	0	..

Table 30

Net installed capacity of electricity plants by type

Megawatts

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
*2	*2	..	..	38	37	..	..	*1
*2	*2	..	..	*38	*37	..	..	*1
*2	*2	..	..	*38	*37	..	..	*2
*2	*2	..	..	*39	*37	..	..	*2
*608	*450	*102	56	*363	*206	*155	..	1
*602	*450	*96	56	*369	*206	*162	..	1
*601	*450	*95	56	*501	*300	200	..	1
*601	*450	*95	56	*551	*350	*200	..	1
0	..	..	0	*52	*23	*11	..	18
0	..	..	0	53	*23	13	..	18
0	..	..	0	*54	*23	13	..	*19
0	..	..	0	*56	*23	14	..	*19
*5	*5	..	..	*33	*31	0	..	2
*5	*5	..	..	*34	*31	0	..	3
*5	*5	..	..	*34	*31	0	..	3
*5	*5	..	..	*35	*31	0	..	3
..	..	..	..	20	17	..	..	2
..	..	..	..	24	18	..	..	6
..	..	..	..	24	18	..	..	6
..	..	..	..	25	18	..	..	7
..	..	..	..	*5	*3	..	..	2
..	..	..	..	*5	*3	..	..	2
..	..	..	..	5	3	..	..	2
..	..	..	..	*5	*3	..	..	2
..	..	..	..	32	26	1	..	5
..	..	..	..	33	26	1	..	6
..	..	..	..	31	24	1	..	6
..	..	..	..	33	25	1	..	6
..	..	..	..	9	9	0	..	0
..	..	..	..	9	9	0	..	0
..	..	..	..	9	9	0	..	0
..	..	..	..	9	9	0	..	0