

Table 33

Production of electricity - by type

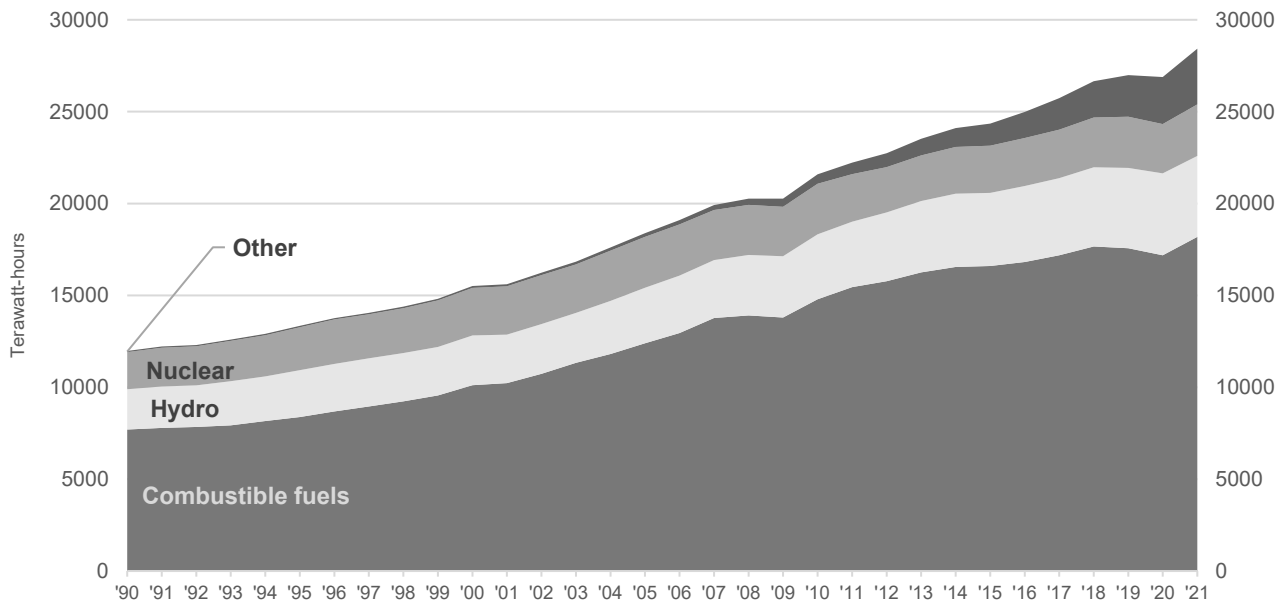
Gigawatt-hours

Table Notes

For this table, **Other** under total producers refers to geothermal, tide, wave, marine, electricity from chemical heat, and other non-specified sources. **Other** under autoproducers refers to nuclear (if any), wind, solar, tide, wave, marine, electricity from chemical heat, and other non-specified sources. **Other** under main activity producers refers to wind, solar, tide, wave, marine, electricity from chemical heat, and other non-specified sources.

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 78: World electricity generation by source, 1990-2021



"Other" refers to wind, solar, geothermal, and other sources

Figure 79: World production of electricity by source and region, 2021

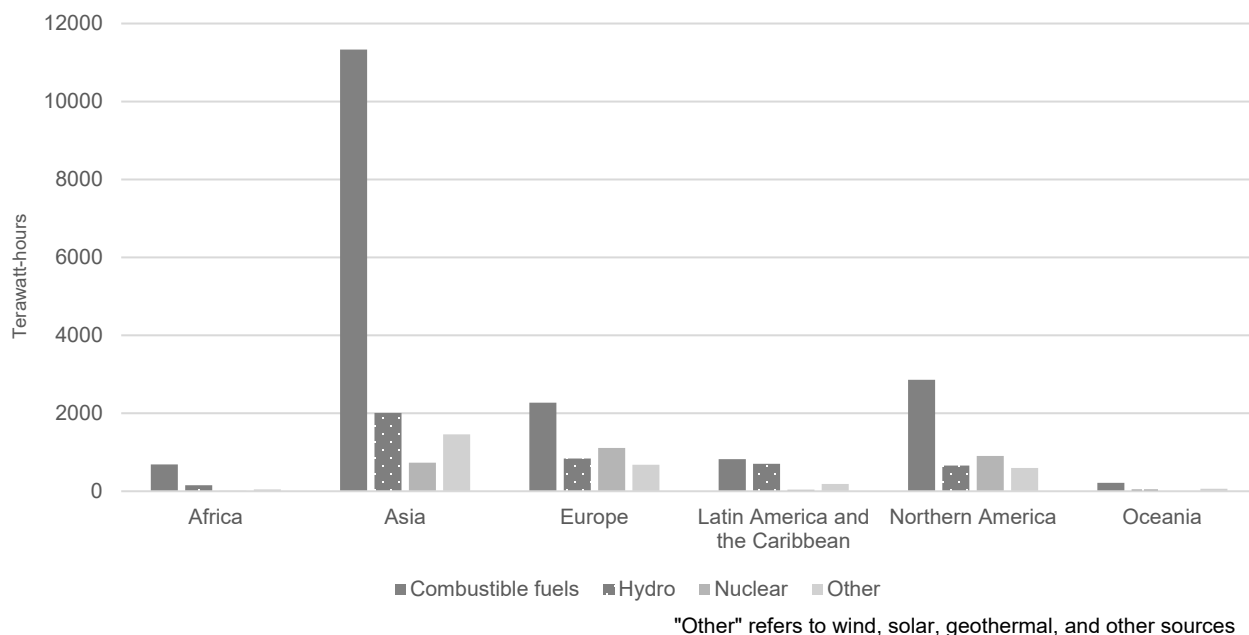


Figure 80: Major countries producing electricity from combustible fuels, 2021

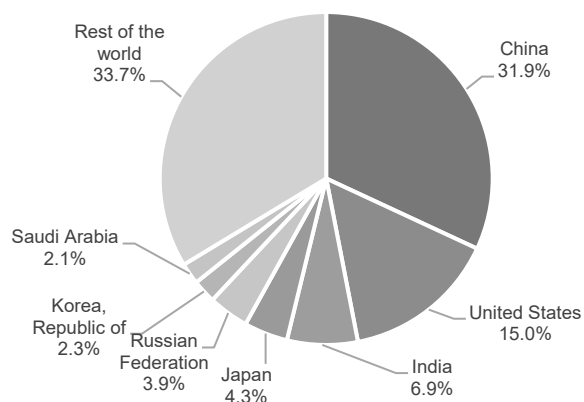


Figure 81: Major countries producing hydro electricity, 2021

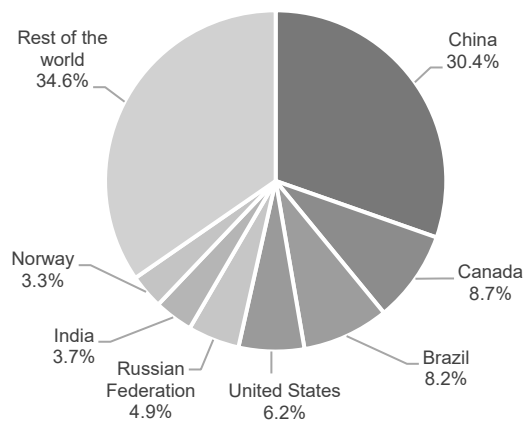


Figure 82: Major countries producing nuclear electricity, 2021

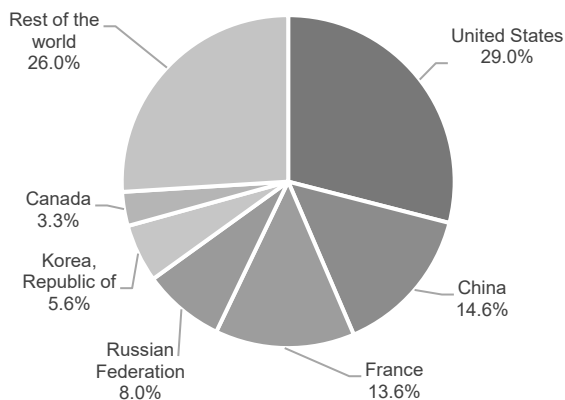


Figure 83: Major countries producing electricity from other sources, 2021

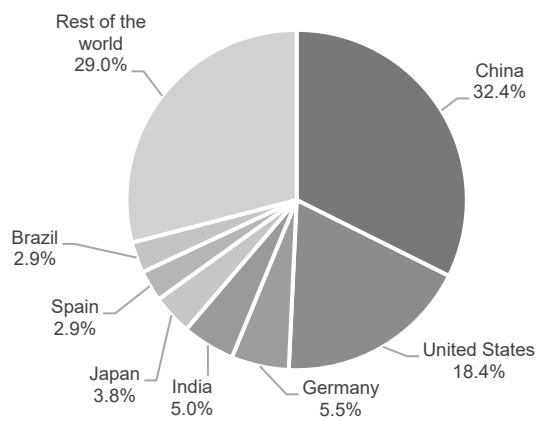


Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
World	2018	26,661,706	17,662,670	4,315,606	2,707,874	1,274,159	564,892	136,506
	2019	26,985,732	17,565,625	4,370,409	2,788,601	1,426,384	694,665	140,048
	2020	26,888,335	17,183,112	4,463,418	2,676,398	1,598,649	837,759	128,999
	2021	28,428,472	18,186,994	4,408,347	2,798,855	1,865,520	1,032,607	136,149
Africa	2018	854,068	673,820	139,686	11,580	14,511	7,669	6,802
	2019	861,842	668,983	143,915	13,252	17,993	10,813	6,885
	2020	850,719	649,536	152,218	9,903	17,874	14,567	6,621
	2021	901,998	686,015	156,231	12,355	23,371	17,427	6,598
Algeria	2018	76,662	75,880	117	..	10	655	..
	2019	81,531	80,691	152	..	10	678	..
	2020	79,154	78,432	50	..	8	*664	..
	2021	85,391	84,729	9	..	11	*642	..
Angola	2018	13,513	3,123	10,372	..	..	18	..
	2019	14,247	3,383	10,826	..	..	38	..
	2020	14,488	1,967	12,478	..	..	43	..
	2021	14,741	3,498	11,203	..	..	39	..
Benin	2018	202	197	0	..	..	5	..
	2019	529	521	0	..	..	8	..
	2020	989	982	0	..	..	7	..
	2021	1,127	1,110	..	..	..	17	..
Botswana	2018	3,105	3,100	..	..	..	5	..
	2019	2,508	2,504	..	..	..	5	..
	2020	2,182	2,176	..	..	..	6	..
	2021	2,486	2,480	..	..	..	6	..
Burkina Faso	2018	*1,728	*1,543	129	..	..	56	..
	2019	*1,554	*1,367	105	..	..	82	..
	2020	*1,427	*1,228	*112	..	..	*87	..
	2021	*1,659	*1,442	*128	..	..	*89	..
Burundi	2018	246	105	133	..	..	8	..
	2019	269	129	132	..	..	8	..
	2020	276	92	176	..	..	8	..
	2021	262	124	131	..	..	*8	..
Cabo Verde	2018	431	341	..	..	80	10	..
	2019	444	362	..	..	74	9	..
	2020	420	350	..	..	64	7	..
	2021	442	362	..	..	74	7	..
Cameroon	2018	8,590	3,547	5,023	..	..	20	..
	2019	8,483	3,234	5,229	..	..	20	..
	2020	8,650	3,660	4,945	..	..	45	..
	2021	7,940	2,987	4,907	..	..	46	..
Central African Rep.	2018	147	*1	146	..	..	0	..
	2019	149	*1	148	..	..	0	..
	2020	*146	*1	*145	..	..	0	..
	2021	*145	*1	*143	..	..	*1	..
Chad	2018	312	303	..	..	9	0	..
	2019	317	308	..	..	9	0	..
	2020	335	326	..	..	9	0	..
	2021	335	326	..	..	9	0	..
Comoros	2018	*98	*98	..	..	..	..	..
	2019	*108	*108	..	..	..	..	..
	2020	*130	*130	..	..	..	..	..
	2021	*136	*132	..	..	..	*4	..
Congo	2018	3,096	2,001	1,094	..	..	1	..
	2019	3,655	2,807	847	..	..	1	..
	2020	3,833	2,931	900	..	..	1	..
	2021	4,021	3,031	989	..	..	1	..

Table 33

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
2,196,523	1,929,937	76,166	190,420	24,465,183	15,732,733	4,239,440	2,707,874	1,785,137
2,297,366	2,003,405	76,036	217,925	24,688,366	15,562,220	4,294,374	2,788,601	2,043,172
2,204,492	1,889,879	72,953	241,660	24,683,843	15,293,233	4,390,465	2,676,398	2,323,747
2,282,275	1,921,083	68,741	292,451	26,146,197	16,265,911	4,339,605	2,798,855	2,741,825
58,278	45,284	688	12,305	795,790	628,536	138,998	11,580	16,676
65,312	51,416	706	13,189	796,530	617,567	143,209	13,252	22,502
66,214	52,394	849	12,970	784,505	597,141	151,369	9,903	26,092
68,153	50,496	926	16,731	833,845	635,519	155,305	12,355	30,666
5,437	5,437	..	..	71,225	70,443	117	..	665
5,508	5,508	..	..	76,023	75,183	152	..	688
5,317	5,317	..	..	73,837	73,115	50	..	*672
5,488	5,488	..	..	79,903	79,241	9	..	*653
421	421	..	..	13,092	2,702	10,372	..	18
418	418	..	..	13,829	2,965	10,826	..	38
395	395	..	..	14,093	1,572	12,478	..	43
*400	*400	..	..	14,341	3,098	11,203	..	39
114	114	..	..	88	83	0	..	5
163	162	..	1	366	359	0	..	6
166	165	..	1	823	817	0	..	6
196	193	..	3	931	917	..	..	14
..	..	..	..	3,105	3,100	..	..	5
..	..	..	..	2,508	2,504	..	..	5
..	..	..	..	2,182	2,176	..	..	6
..	..	..	..	2,486	2,480	..	..	6
*672	*672	..	..	*1,056	*871	129	..	56
*677	*677	..	..	*877	*689	105	..	82
*608	*608	..	..	*819	*619	*112	..	*87
*715	*715	..	..	*944	*727	*128	..	*89
6	6	..	..	240	99	133	..	8
5	5	..	..	264	124	132	..	8
6	6	..	..	270	87	176	..	8
*6	*6	..	..	257	118	131	..	*8
*1	*1	..	..	430	340	..	..	90
*1	*1	..	..	444	361	..	..	83
*1	*1	..	..	419	349	..	..	70
*1	*1	..	..	442	361	..	..	81
3,252	3,252	..	..	5,337	295	5,023	..	20
2,996	2,996	..	..	5,487	238	5,229	..	20
3,478	3,478	..	..	5,173	182	4,945	..	45
2,862	2,862	..	..	5,078	126	4,907	..	46
..	..	..	..	147	*1	146	..	0
..	..	..	..	149	*1	148	..	0
..	..	..	..	*146	*1	*145	..	0
..	..	..	..	*145	*1	*143	..	*1
..	..	..	..	312	303	..	..	9
..	..	..	..	317	308	..	..	9
..	..	..	..	335	326	..	..	9
..	..	..	..	335	326	..	..	9
..	..	..	..	*98	*98	..	..	..
..	..	..	..	*108	*108	..	..	..
..	..	..	..	*130	*130	..	..	..
..	..	..	..	*136	*132	..	..	*4
2,001	2,001	..	..	1,095	..	1,094	..	1
2,807	2,807	..	..	848	..	847	..	1
2,931	2,931	..	..	901	..	900	..	1
3,031	3,031	..	..	990	..	989	..	1

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Côte d'Ivoire	2018	10,058	7,096	2,962	..	..	..	..
	2019	10,697	7,197	3,481	..	..	18	..
	2020	11,274	7,887	3,376	..	..	11	..
	2021	11,579	8,935	2,626	..	..	18	..
Dem. Rep. of the Congo	2018	10,556	39	10,516	..	..	0	..
	2019	11,491	8	11,483	..	..	0	..
	2020	12,460	7	12,453	..	..	0	..
	2021	13,135	3	13,131	..	..	1	..
Djibouti	2018	55	55	..	..	..	1	..
	2019	92	91	..	..	..	1	..
	2020	126	125	..	..	..	*1	..
	2021	*126	*125	..	..	..	*1	..
Egypt	2018	202,838	187,341	12,726	..	2,234	537	..
	2019	194,279	175,998	13,121	..	3,689	1,471	..
	2020	197,201	173,500	15,038	..	4,233	4,430	..
	2021	222,544	196,649	14,769	..	6,251	4,875	..
Equatorial Guinea	2018	1,355	912	443	..	..	..	..
	2019	*1,912	*1,292	*620	..	..	..	..
	2020	*2,038	*1,418	*620	..	..	..	..
	2021	*1,770	*1,150	*620	..	..	..	..
Eritrea	2018	352	340	..	..	2	10	..
	2019	363	350	..	..	2	11	..
	2020	375	361	..	..	2	13	..
	2021	385	371	..	..	2	12	..
Eswatini	2018	520	311	209	..	..	0	..
	2019	585	313	270	..	..	2	..
	2020	541	310	229	..	..	*2	..
	2021	581	313	258	..	..	10	..
Ethiopia	2018	14,554	31	13,655	..	848	20	..
	2019	15,068	35	14,404	..	609	20	..
	2020	15,829	35	14,943	..	818	32	..
	2021	15,538	29	14,914	..	561	34	..
Gabon	2018	2,295	1,307	987	..	..	2	..
	2019	2,306	1,318	987	..	..	2	..
	2020	2,423	1,434	987	..	..	2	..
	2021	2,344	1,356	987	..	..	2	..
Gambia	2018	394	388	..	..	2	*4	..
	2019	462	456	..	..	2	4	..
	2020	485	478	..	..	2	4	..
	2021	516	510	..	..	2	4	..
Ghana	2018	16,425	10,375	6,017	..	..	33	..
	2019	18,368	11,065	7,252	..	..	52	..
	2020	20,170	12,820	7,293	..	..	57	..
	2021	22,051	14,408	7,521	..	..	122	..
Guinea	2018	1,884	*702	1,182	..	..	..	..
	2019	2,020	*740	1,280	..	..	..	..
	2020	2,420	*935	1,484	..	..	..	..
	2021	2,995	*359	2,635	..	..	..	..
Guinea-Bissau	2018	*82	*80	..	..	..	2	..
	2019	*82	*80	..	..	..	2	..
	2020	*82	*80	..	..	..	2	..
	2021	*82	*80	..	..	..	2	..
Kenya	2018	11,182	1,679	3,986	..	376	14	5,128
	2019	11,621	1,526	3,205	..	1,563	92	5,235
	2020	11,604	891	4,233	..	1,331	88	5,060
	2021	12,377	1,512	3,675	..	1,985	167	5,037

Table 33

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
61	61	..	..	9,997	7,035	2,962	..	..
65	65	..	..	10,631	7,132	3,481	..	18
72	72	..	..	11,202	7,815	3,376	..	11
137	137	..	..	11,442	8,798	2,626	..	18
33	33	..	..	10,523	7	10,516	..	0
..	..	..	..	11,491	8	11,483	..	0
..	..	..	..	12,460	7	12,453	..	0
..	..	..	..	13,135	3	13,131	..	1
..	..	..	..	55	55	..	..	1
..	..	..	..	92	91	..	..	1
..	..	..	..	126	125	..	..	*1
..	..	..	..	*126	*125	..	..	*1
6,078	6,078	..	..	196,760	181,263	12,726	..	2,771
11,554	11,554	..	..	182,725	164,444	13,121	..	5,160
11,408	11,408	..	..	185,793	162,092	15,038	..	8,663
11,188	11,188	..	..	211,356	185,461	14,769	..	11,126
..	..	..	..	1,355	912	443	..	..
..	..	..	..	*1,912	*1,292	*620	..	..
..	..	..	..	*2,038	*1,418	*620	..	..
..	..	..	..	*1,770	*1,150	*620	..	..
19	19	..	..	333	321	..	..	12
19	19	..	..	344	331	..	..	13
19	19	..	..	357	342	..	..	15
19	19	..	..	366	352	..	..	14
312	311	*1	0	208	..	208	..	..
316	313	*1	2	269	..	269	..	..
313	310	*1	*2	227	..	227	..	..
317	313	*1	*2	264	..	256	..	8
26	26	..	..	14,528	5	13,655	..	868
30	30	..	..	15,038	5	14,404	..	629
30	30	..	..	15,799	5	14,943	..	850
23	23	..	..	15,515	6	14,914	..	594
226	218	6	2	2,069	1,088	981	..	..
222	214	6	2	2,085	1,104	981	..	..
243	236	6	2	2,179	1,198	981	..	..
210	202	6	2	2,135	1,154	981	..	..
*37	*37	..	..	356	351	..	..	*6
*38	*38	..	..	425	418	..	..	6
*38	*38	..	..	447	440	..	..	6
*38	*38	..	..	478	472	..	..	6
*180	*180	..	..	16,245	10,195	6,017	..	33
*180	*180	..	..	18,188	10,885	7,252	..	52
..	..	..	..	20,170	12,820	7,293	..	57
..	..	..	..	22,051	14,408	7,521	..	122
*593	*593	..	..	1,290	*109	1,182	..	..
*625	*625	..	..	1,394	*115	1,280	..	..
*819	*819	..	..	1,600	*116	1,484	..	..
*233	*233	..	..	2,761	*126	2,635	..	..
*19	*19	..	..	*63	*61	..	..	2
*19	*19	..	..	*63	*61	..	..	2
*19	*19	..	..	*63	*61	..	..	2
*19	*19	..	..	*63	*61	..	..	2
133	133	..	..	11,049	1,546	3,986	..	5,517
212	212	..	..	11,408	1,313	3,205	..	6,890
137	137	..	..	11,467	755	4,233	..	6,480
274	250	24	..	12,103	1,262	3,651	..	7,189

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Lesotho	2018	517	1	517	..	..	..	..
	2019	393	1	392	..	..	..	..
	2020	427	*1	426	..	..	..	..
	2021	532	*1	531	..	..	..	..
Liberia	2018	*405	*277	*124	..	..	*4	..
	2019	*418	*290	*124	..	..	*4	..
	2020	*446	*318	*124	..	..	*4	..
	2021	478	*249	223	..	..	*5	..
Libya	2018	34,171	34,164	..	..	..	8	..
	2019	34,629	34,621	..	..	..	8	..
	2020	29,499	29,491	..	..	..	8	..
	2021	31,020	31,011	..	..	..	9	..
Madagascar	2018	2,099	1,107	968	..	0	*23	..
	2019	2,178	1,259	886	..	0	32	..
	2020	2,167	1,317	818	..	0	32	..
	2021	2,273	1,477	767	..	0	28	..
Malawi	2018	1,803	*385	1,365	..	..	53	..
	2019	1,937	*125	1,647	..	..	165	..
	2020	*1,882	*68	*1,647	..	..	168	..
	2021	*1,955	*130	*1,655	..	..	*170	..
Mali	2018	*3,289	*1,991	*1,267	..	..	31	..
	2019	3,535	*2,137	1,365	..	..	33	..
	2020	3,728	*2,191	1,444	..	..	93	..
	2021	*3,969	*2,381	*1,473	..	..	115	..
Mauritania	2018	1,281	1,023	..	..	110	148	..
	2019	1,477	1,216	..	..	*112	*149	..
	2020	*1,461	*1,178	..	..	138	145	..
	2021	*1,364	*1,080	..	..	*139	*145	..
Mauritius	2018	3,131	2,943	125	..	15	49	..
	2019	3,237	2,994	99	..	15	128	..
	2020	2,883	2,603	116	..	18	146	..
	2021	2,992	2,719	107	..	15	151	..
Morocco	2018	35,822	27,708	1,998	..	3,863	950	1,302
	2019	41,650	32,390	1,654	..	4,723	1,581	1,302
	2020	40,057	31,353	1,290	..	4,592	1,520	1,302
	2021	42,562	33,120	1,213	..	5,107	1,820	1,302
Mozambique	2018	17,140	3,239	13,899	..	..	1	..
	2019	18,981	4,021	14,930	..	..	31	..
	2020	19,026	3,253	15,703	..	..	70	..
	2021	18,863	3,326	15,468	..	..	69	..
Namibia	2018	1,437	21	1,144	..	22	250	..
	2019	1,402	52	954	..	22	375	..
	2020	2,012	65	1,505	..	22	421	..
	2021	1,467	41	968	..	22	437	..
Niger	2018	480	447	..	..	..	33	..
	2019	626	593	..	..	..	33	..
	2020	635	610	..	..	..	24	..
	2021	*658	*612	..	..	..	*46	..
Nigeria	2018	33,384	25,657	7,695	..	3	28	..
	2019	33,110	24,633	8,433	..	3	41	..
	2020	35,059	27,324	7,690	..	*3	42	..
	2021	36,038	28,046	7,943	..	..	49	..
Rwanda	2018	759	403	338	18	..
	2019	798	393	387	18	..
	2020	838	326	494	18	..
	2021	976	414	545	18	..

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Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	517	1	517	..	..
..	..	..	..	393	1	392	..	..
..	..	..	..	427	*1	426	..	..
..	..	..	..	532	*1	531	..	..
*204	*200	..	*4	*201	*77	*124	..	..
*204	*200	..	*4	*214	*90	*124	..	..
*204	*200	..	*4	*242	*118	*124	..	..
*205	*200	..	*5	273	49	223	..	0
..	..	..	..	34,171	34,164	..	..	8
..	..	..	..	34,629	34,621	..	..	8
..	..	..	..	29,499	29,491	..	..	8
..	..	..	..	31,020	31,011	..	..	9
*279	*279	..	..	1,820	829	968	..	*23
*285	*285	..	..	1,892	974	886	..	32
*298	*298	..	..	1,869	1,018	818	..	32
*334	*334	..	..	1,940	1,143	767	..	29
*385	*380	*5	..	1,418	*5	1,360	..	53
*125	*120	*5	..	1,812	*5	1,642	..	165
*68	*63	*5	..	*1,814	*5	*1,642	..	168
*130	*125	*5	..	*1,825	*5	*1,650	..	*170
*1,070	*1,042	..	28	*2,218	949	*1,267	..	3
*1,124	*1,093	..	31	2,411	1,044	1,365	..	2
*1,133	*1,101	..	32	2,595	1,090	1,444	..	61
*1,163	*1,131	..	*32	*2,806	*1,250	*1,473	..	83
*356	*346	..	*10	925	677	..	..	248
375	362	..	13	1,102	854	..	..	*248
379	368	..	12	*1,081	*810	..	..	271
384	370	..	14	*980	*710	..	..	*270
1,758	1,697	..	62	1,373	1,246	125	..	3
1,755	1,614	..	141	1,482	1,381	99	..	3
1,682	1,521	..	161	1,201	1,082	116	..	3
1,766	1,604	..	162	1,226	1,114	107	..	5
1,389	..	..	1,389	34,432	27,708	1,998	..	4,726
1,567	176	..	1,391	40,083	32,214	1,654	..	6,216
1,660	283	..	1,378	38,396	31,070	1,290	..	6,036
1,620	235	..	1,385	40,942	32,885	1,213	..	6,845
213	213	..	..	16,927	3,027	13,899	..	1
222	222	..	..	18,759	3,799	14,930	..	31
210	210	..	..	18,816	3,043	15,703	..	70
210	210	..	..	18,653	3,116	15,468	..	69
..	..	..	..	1,437	21	1,144	..	272
..	..	..	..	1,402	52	954	..	396
..	..	..	..	2,012	65	1,505	..	442
..	..	..	..	1,467	41	968	..	458
43	*11	..	33	437	437	..	..	..
*91	*58	..	33	535	535	..	..	..
157	145	..	13	477	465	..	..	12
*108	*62	..	*46	*550	*550	..	..	..
5,795	5,607	157	31	27,589	20,051	7,538	..	..
5,599	5,383	172	44	27,511	19,250	8,261	..	..
6,173	5,971	157	45	28,886	21,353	7,533	..	..
6,339	6,129	162	49	29,698	21,917	7,781
*2	*2	757	401	338	..	18
*2	*2	796	391	387	..	18
*2	*2	836	324	494	..	18
*2	*2	974	412	545	..	18

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Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Sao Tome and Principe	2018	*110	*103	6	..	..	0	..
	2019	110	103	6	..	..	0	..
	2020	*110	*103	*6	..	..	0	..
	2021	*109	*103	*6	..	..	0	..
Senegal	2018	4,502	4,333	..	..	..	80	89
	2019	*4,453	*4,081	..	..	23	*291	58
	2020	5,804	5,159	..	..	217	*385	43
	2021	6,515	5,410	..	..	400	670	36
Seychelles	2018	518	507	..	..	7	4	..
	2019	540	531	..	..	5	4	..
	2020	535	523	..	..	6	6	..
	2021	536	517	..	..	5	14	..
Sierra Leone	2018	320	91	223	..	..	6	..
	2019	260	17	237	..	..	6	..
	2020	253	11	236	..	..	6	..
	2021	251	15	230	..	..	6	..
Somalia	2018	367	350	..	..	6	11	..
	2019	367	350	..	..	6	11	..
	2020	370	340	..	..	6	24	..
	2021	383	340	..	..	6	37	..
South Africa	2018	256,064	228,082	5,694	11,580	6,467	4,241	..
	2019	252,639	222,163	5,791	13,252	6,624	4,809	..
	2020	239,715	212,410	6,239	9,903	5,937	5,226	..
	2021	244,383	210,235	6,784	12,355	8,356	6,653	..
South Sudan	2018	548	538	..	..	..	10	..
	2019	557	546	..	..	..	11	..
	2020	558	547	..	..	..	11	..
	2021	583	566	..	..	..	17	..
St. Helena and Depend.	2018	12	8	..	..	3	2	..
	2019	12	9	..	..	2	1	..
	2020	11	8	..	..	2	1	..
	2021	11	8	..	..	1	1	..
Sudan	2018	16,398	6,721	9,657	..	..	21	..
	2019	16,814	6,583	10,210	..	..	21	..
	2020	17,642	6,613	11,008	..	..	*21	..
	2021	*16,775	*6,693	*10,061	..	..	*21	..
Togo	2018	588	389	196	..	..	3	..
	2019	718	476	236	..	..	6	..
	2020	699	547	144	..	..	8	..
	2021	848	627	163	..	..	57	..
Tunisia	2018	21,012	20,085	17	..	453	174	283
	2019	22,140	21,038	66	..	500	245	291
	2020	21,633	20,572	46	..	465	333	216
	2021	22,143	20,999	28	..	425	467	223
Uganda	2018	4,040	405	3,602	..	..	32	..
	2019	4,364	300	3,986	..	..	78	..
	2020	4,447	246	4,083	..	..	118	..
	2021	4,769	334	4,334	..	..	101	..
United Rep. of Tanzania	2018	7,543	5,055	*2,400	..	..	88	..
	2019	7,837	5,270	2,477	..	..	89	..
	2020	7,855	4,664	3,139	..	..	51	..
	2021	8,667	5,533	3,086	..	..	47	..
Zambia	2018	16,282	2,574	13,706	..	..	1	..
	2019	15,115	2,669	12,329	..	..	118	..
	2020	15,237	2,294	12,793	..	..	150	..
	2021	17,718	1,498	16,073	..	..	148	..

Table 33

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	*110	*103	6	..	0
..	..	..	..	110	103	6	..	0
..	..	..	..	*110	*103	*6	..	0
..	..	..	..	*109	*103	*6	..	0
1,134	965	..	169	3,368	3,368	..	..	..
1,026	869	..	*158	*3,427	*3,212	..	..	*214
805	631	..	*174	4,999	4,528	..	..	*472
930	763	..	*167	5,586	4,647	..	..	939
*90	*90	..	..	428	417	..	..	11
*92	*92	..	..	448	439	..	..	9
*93	*93	..	..	442	430	..	..	12
*93	*93	..	..	443	424	..	..	19
4	4	..	..	316	87	223	..	6
4	4	..	..	256	13	237	..	6
*4	*4	..	..	249	7	236	..	6
*4	*4	..	..	247	11	230	..	6
..	..	..	..	367	350	..	..	17
..	..	..	..	367	350	..	..	17
..	..	..	..	370	340	..	..	30
..	..	..	..	383	340	..	..	43
23,261	13,163	75	10,023	232,803	214,919	5,619	11,580	685
24,159	13,385	43	10,731	228,480	208,778	5,748	13,252	702
24,523	13,932	57	10,534	215,192	198,478	6,182	9,903	629
26,733	12,512	98	14,124	217,650	197,724	6,686	12,355	885
48	43	..	5	500	495	..	..	5
49	43	..	6	508	503	..	..	5
50	44	..	6	508	503	..	..	5
55	46	..	9	528	520	..	..	8
..	..	..	..	12	8	..	..	4
..	..	..	..	12	9	..	..	3
..	..	..	..	11	8	..	..	3
..	..	..	..	11	8	..	..	2
122	122	..	..	16,277	6,599	9,657	..	21
109	109	..	..	16,705	6,474	10,210	..	21
*108	*108	..	..	17,534	6,505	11,008	..	*21
*107	*107	..	..	*16,667	*6,585	*10,061	..	*21
7	4	..	3	581	385	196	..	..
12	7	..	5	706	469	236	..	0
10	4	..	7	688	543	144	..	1
10	4	..	6	837	624	163	..	51
1,467	1,010	..	457	19,545	19,075	17	..	453
1,591	1,055	..	536	20,549	19,983	66	..	500
1,594	1,045	..	549	20,039	19,527	46	..	465
1,752	1,074	..	678	20,391	19,925	28	..	437
651	207	444	..	3,389	199	3,158	..	32
677	197	480	..	3,687	103	3,506	..	78
812	188	624	..	3,635	58	3,459	..	118
913	282	631	..	3,856	52	3,703	..	101
95	7	..	88	7,447	5,047	*2,400	..	..
98	8	..	89	7,739	5,262	2,477	..	..
59	8	..	51	7,795	4,656	3,139	..	..
55	8	..	47	8,612	5,525	3,086	..	..
78	78	..	..	16,203	2,496	13,706	..	1
78	78	..	..	15,037	2,591	12,329	..	118
78	78	..	..	15,159	2,216	12,793	..	150
*83	*83	..	..	17,636	1,415	16,073	..	148

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Zimbabwe	2018	9,369	4,320	5,049	..	..	..	..
	2019	8,402	4,236	4,166	..	..	..	..
	2020	6,673	2,843	3,805	..	..	24	..
	2021	8,454	2,508	5,928	..	..	18	..
Asia	2018	13,795,921	10,512,898	1,864,499	576,945	471,187	314,112	56,279
	2019	14,235,508	10,614,589	1,987,136	655,650	521,416	398,053	58,665
	2020	14,481,297	10,678,151	2,024,052	659,028	585,745	473,740	60,582
	2021	15,533,270	11,331,663	2,010,548	733,376	798,740	592,875	66,067
Afghanistan	2018	1,301	200	1,066	..	..	35	..
	2019	1,626	183	1,388	..	..	55	..
	2020	1,371	124	1,181	..	..	66	..
	2021	*1,409	*130	*1,215	..	..	*64	..
Armenia	2018	7,791	3,376	2,318	2,076	2	19	..
	2019	7,680	3,047	2,371	2,198	3	61	..
	2020	7,839	3,166	1,778	2,756	2	137	..
	2021	7,879	3,384	2,202	1,998	1	294	..
Azerbaijan	2018	25,229	23,339	1,768	..	83	39	..
	2019	26,073	24,359	1,565	..	105	44	..
	2020	25,839	24,627	1,070	..	96	47	..
	2021	27,889	26,464	1,277	..	91	56	..
Bahrain	2018	29,516	29,506	..	..	*1	*9	..
	2019	33,453	33,442	..	..	*1	*10	..
	2020	33,374	33,363	..	..	*1	*10	..
	2021	33,887	33,874	..	..	1	12	..
Bangladesh	2018	*77,935	*76,552	1,086	..	6	291	..
	2019	85,046	83,925	769	..	6	347	..
	2020	85,500	84,207	875	..	6	413	..
	2021	95,481	94,303	694	..	6	477	..
Bhutan	2018	6,960	0	6,959	..	1	0	..
	2019	8,858	0	8,857	..	*1	0	..
	2020	11,371	0	11,370	..	1	0	..
	2021	11,371	0	11,370	..	0	0	..
Brunei Darussalam	2018	4,294	4,292	..	..	..	2	..
	2019	4,933	4,931	..	..	..	2	..
	2020	5,736	5,734	..	..	..	2	..
	2021	5,700	5,695	..	..	..	4	..
Cambodia	2018	8,328	3,575	4,737	..	..	17	..
	2019	8,995	4,872	4,025	..	..	98	..
	2020	8,982	4,604	4,073	..	..	306	..
	2021	10,159	4,193	5,322	..	..	643	..
China	2018	7,166,133	5,096,318	1,231,787	294,359	365,971	177,517	181
	2019	7,503,458	5,220,150	1,304,440	348,350	406,030	224,460	28
	2020	7,779,060	5,330,250	1,355,210	366,250	466,470	260,857	23
	2021	8,534,273	5,805,870	1,339,000	407,520	656,100	325,760	*23
China, Hong Kong SAR	2018	36,565	36,565	..	..	..	..	..
	2019	36,911	36,911	..	..	..	..	..
	2020	35,189	35,189	..	..	..	..	..
	2021	37,071	37,071	..	..	..	..	..
China, Macao SAR	2018	653	653	..	..	..	0	..
	2019	830	830	..	..	..	0	..
	2020	562	562	..	..	..	0	..
	2021	496	496	..	..	..	0	..
Cyprus	2018	5,061	4,640	..	..	221	199	..
	2019	5,141	4,685	..	..	239	218	..
	2020	4,849	4,313	..	..	240	296	..
	2021	5,119	4,405	..	..	246	468	..

Table 33

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
206	206	..	..	9,163	4,114	5,049	..	..
210	210	..	..	8,192	4,026	4,166	..	..
109	109	..	..	6,564	2,734	3,805	..	24
0	0	..	..	8,454	2,508	5,928	..	18
1,217,765	1,118,728	10,054	88,983	12,578,155	9,394,170	1,854,445	576,945	752,596
1,288,951	1,176,856	10,631	101,463	12,946,557	9,437,732	1,976,504	655,650	876,671
1,188,343	1,071,488	9,970	106,884	13,292,954	9,606,663	2,014,081	659,028	1,013,183
1,228,878	1,096,172	13,663	119,043	14,304,392	10,235,491	1,996,885	733,376	1,338,640
*322	*7	*280	35	979	193	786	..	..
*340	*6	*300	34	1,286	177	1,088	..	21
*340	*6	*300	34	1,031	118	881	..	32
*335	*6	*295	*34	*1,074	*124	*920	..	*30
14	..	..	14	7,777	3,376	2,318	2,076	7
47	..	..	47	7,632	3,047	2,371	2,198	17
115	..	..	115	7,723	3,166	1,778	2,756	23
204	..	..	204	7,675	3,384	2,202	1,998	91
2,096	2,096	..	0	23,133	21,243	1,768	..	122
2,069	2,069	..	0	24,004	22,290	1,565	..	150
2,158	2,155	3	0	23,681	22,471	1,067	..	143
2,158	2,155	2	*1	25,731	24,309	1,276	..	147
11,683	11,683	..	..	17,833	17,823	..	..	*10
15,236	15,236	..	..	18,217	18,206	..	..	*11
15,427	15,427	..	..	17,947	17,936	..	..	*11
15,538	15,538	..	..	18,349	18,336	..	..	13
17,475	17,475	..	..	*60,460	*59,077	1,086	..	297
17,161	17,161	..	..	67,885	66,764	769	..	353
16,517	16,517	..	..	68,983	67,690	875	..	419
18,507	18,507	..	..	76,974	75,797	694	..	483
..	..	..	..	6,960	0	6,959	..	2
..	..	..	..	8,858	0	8,857	..	*2
..	..	..	..	11,371	0	11,370	..	2
..	..	..	..	11,371	0	11,370	..	1
440	440	..	..	3,853	3,852	..	..	2
912	912	..	..	4,021	4,019	..	..	2
1,662	1,662	..	..	4,074	4,073	..	..	2
1,652	1,648	..	4	4,048	4,047	..	..	1
..	..	..	..	8,328	3,575	4,737	..	17
..	..	..	..	8,995	4,872	4,025	..	98
..	..	..	..	8,982	4,604	4,073	..	306
..	..	..	..	10,159	4,193	5,322	..	643
413,311	413,311	..	..	6,752,822	4,683,007	1,231,787	294,359	543,669
423,354	423,354	..	..	7,080,104	4,796,796	1,304,440	348,350	630,518
432,283	432,283	..	..	7,346,777	4,897,967	1,355,210	366,250	727,350
470,856	470,856	..	..	8,063,417	5,335,014	1,339,000	407,520	981,883
..	..	..	..	36,565	36,565	..	..	..
..	..	..	..	36,911	36,911	..	..	..
..	..	..	..	35,189	35,189	..	..	..
..	..	..	..	37,071	37,071	..	..	..
179	179	..	0	474	474	..	..	..
217	217	..	0	613	613	..	..	..
189	189	..	0	373	373	..	..	..
209	209	..	0	287	287	..	..	..
122	51	..	71	4,938	4,589	..	..	349
138	51	..	87	5,003	4,633	..	..	370
150	52	..	98	4,699	4,261	..	..	438
225	53	..	172	4,894	4,352	..	..	542

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Georgia	2018	12,149	2,115	9,949	..	84	..	..
	2019	11,857	2,840	8,932	..	85	..	..
	2020	11,160	2,821	8,248	..	91	..	..
	2021	12,645	2,380	10,182	..	83	..	..
India	2018	1,521,958	1,244,959	135,164	37,813	*64,294	*39,728	..
	2019	1,576,740	1,253,707	156,049	46,472	*69,949	*50,563	..
	2020	*1,533,307	*1,200,660	*160,909	*43,029	*67,418	*61,291	..
	2021	*1,610,082	*1,247,823	*162,441	*47,112	77,140	*75,566	..
Indonesia	2018	275,657	242,665	19,774	..	..	7	13,212
	2019	281,248	247,723	20,435	..	..	10	13,080
	2020	276,504	240,582	21,624	..	..	9	14,289
	2021	289,471	252,870	19,580	..	..	120	16,901
Iran (Islamic Rep. of)	2018	309,642	285,569	15,765	7,450	518	340	..
	2019	311,458	287,539	15,873	6,757	616	673	..
	2020	336,239	313,487	15,887	5,527	754	584	..
	2021	344,161	323,803	15,887	3,093	759	619	..
Iraq	2018	81,292	79,417	1,818	..	..	57	..
	2019	87,370	82,350	4,963	..	..	57	..
	2020	85,433	81,214	4,162	..	..	57	..
	2021	86,164	82,761	3,346	..	..	57	..
Israel	2018	68,894	66,978	0	..	183	1,574	159
	2019	72,351	68,796	..	..	190	3,115	250
	2020	72,285	67,702	..	..	204	4,163	216
	2021	73,796	68,054	..	..	178	5,351	214
Japan	2018	1,067,252	822,287	88,348	64,929	7,481	62,668	21,539
	2019	1,039,148	789,025	87,653	63,779	7,617	69,382	21,692
	2020	1,017,285	783,015	87,548	38,752	8,970	79,087	19,913
	2021	1,049,910	773,762	88,825	70,805	9,428	86,094	20,995
Jordan	2018	20,476	18,332	23	..	707	1,415	..
	2019	20,995	18,016	18	..	875	2,086	..
	2020	20,952	16,675	18	..	1,407	2,852	..
	2021	21,289	16,168	19	..	1,596	3,507	..
Kazakhstan	2018	107,605	96,364	10,395	..	461	384	..
	2019	106,878	95,346	9,994	..	707	831	..
	2020	110,890	98,711	9,660	..	1,029	1,490	..
	2021	115,078	102,493	9,208	..	1,747	1,629	..
Korea, Dem.Ppl's.Rep.	2018	24,949	12,100	12,800	..	..	49	..
	2019	23,853	12,800	11,000	..	..	53	..
	2020	24,053	11,200	12,800	..	..	53	..
	2021	25,566	9,400	16,100	..	..	66	..
Korea, Republic of	2018	590,129	435,310	7,270	133,505	2,465	9,208	2,370
	2019	581,492	410,786	6,249	145,910	2,681	12,996	2,870
	2020	578,595	386,067	7,148	160,184	3,151	17,967	4,077
	2021	611,759	415,291	6,737	158,015	3,182	23,395	5,138
Kuwait	2018	74,157	74,099	..	..	38	20	..
	2019	75,203	75,071	..	..	36	96	..
	2020	74,956	74,743	..	..	33	180	..
	2021	80,757	80,569	..	..	29	159	..
Kyrgyzstan	2018	15,728	1,410	14,318	..	..	..	..
	2019	15,100	1,256	13,844	..	..	..	..
	2020	15,404	1,425	13,979	..	..	..	..
	2021	14,815	1,858	12,957	..	..	..	..
Lao People's Dem. Rep.	2018	36,762	13,703	22,999	..	..	60	..
	2019	31,133	12,194	18,899	..	..	40	..
	2020	*39,967	*13,665	*26,262	..	..	*41	..
	2021	*44,931	*13,798	*31,072	..	..	61	..

Table 33

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	12,149	2,115	9,949	..	84
..	..	..	..	11,857	2,840	8,932	..	85
..	..	..	..	11,160	2,821	8,248	..	91
..	..	..	..	12,645	2,380	10,182	..	83
175,633	172,645	270	*2,718	1,346,325	1,072,314	134,894	37,813	*101,304
217,942	210,869	280	*6,793	1,358,798	1,042,838	155,769	46,472	*113,719
*182,041	*173,533	*351	*8,157	*1,351,266	*1,027,127	*160,558	*43,029	*120,552
*136,055	*125,123	*350	*10,582	*1,474,027	*1,122,700	*162,091	*47,112	*142,124
47,059	47,059	..	..	228,599	195,606	19,774	..	13,218
44,799	44,113	686	..	236,449	203,610	19,749	..	13,089
37,555	36,735	820	..	238,950	203,848	20,804	..	14,298
39,805	37,975	1,830	..	249,666	214,895	17,750	..	17,021
5,258	5,258	..	..	304,384	280,311	15,765	7,450	858
5,879	5,879	..	..	305,578	281,660	15,873	6,757	1,288
6,120	6,120	..	..	330,119	307,367	15,887	5,527	1,338
6,337	6,337	..	..	337,824	317,466	15,887	3,093	1,379
57	..	..	57	81,235	79,417	1,818	..	..
57	..	..	57	87,313	82,350	4,963	..	..
57	..	..	57	85,376	81,214	4,162	..	..
57	..	..	57	86,107	82,761	3,346	..	..
5,047	3,131	0	1,916	63,847	63,847	0	..	0
6,845	3,796	..	3,049	65,506	65,000	..	..	505
8,072	4,128	..	3,945	64,212	63,574	..	..	638
9,322	4,355	..	4,966	64,475	63,698	..	..	776
160,738	85,142	3,290	72,306	906,514	737,145	85,058	64,929	19,382
160,849	80,989	3,328	76,532	878,298	708,036	84,325	63,779	22,158
159,422	74,957	2,999	81,466	857,863	708,059	84,549	38,752	26,504
173,374	83,187	2,838	87,349	876,536	690,575	85,988	70,805	29,169
1,740	1,178	..	562	18,737	17,154	23	..	1,560
1,940	1,222	..	718	19,056	16,794	18	..	2,244
2,114	907	..	1,207	18,838	15,768	18	..	3,052
2,251	907	..	1,344	19,038	15,261	19	..	3,758
3,151	2,908	..	243	104,453	93,456	10,395	..	602
1,148	708	..	440	105,730	94,638	9,994	..	1,098
2,261	2,008	..	253	108,629	96,703	9,660	..	2,266
16,248	13,217	3,016	16	98,830	89,276	6,193	..	3,361
..	..	..	..	24,949	12,100	12,800	..	49
..	..	..	..	23,853	12,800	11,000	..	53
..	..	..	..	24,053	11,200	12,800	..	53
..	..	..	..	25,566	9,400	16,100	..	66
35,726	34,603	..	1,123	554,403	400,707	7,270	133,505	12,921
31,840	30,495	..	1,345	549,652	380,291	6,249	145,910	17,202
30,615	29,107	..	1,507	547,980	356,960	7,148	160,184	23,688
31,045	29,322	..	1,723	580,714	385,969	6,737	158,015	29,992
..	..	..	..	74,157	74,099	..	..	58
..	..	..	..	75,203	75,071	..	..	132
..	..	..	..	74,956	74,743	..	..	213
..	..	..	..	80,757	80,569	..	..	188
39	39	..	..	15,689	1,371	14,318	..	..
32	32	..	..	15,068	1,224	13,844	..	..
26	26	..	..	15,378	1,399	13,979	..	..
23	23	..	..	14,792	1,835	12,957	..	..
..	..	..	..	36,762	13,703	22,999	..	60
..	..	..	..	31,133	12,194	18,899	..	40
..	..	..	..	*39,967	*13,665	*26,262	..	*41
..	..	..	..	*44,931	*13,798	*31,072	..	61

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						Other
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	
Lebanon	2018	23,150	22,754	348	..	..	48	..
	2019	23,819	22,736	965	..	..	118	..
	2020	18,306	17,161	1,025	..	..	*120	..
	2021	*13,631	*12,655	*670	..	..	306	..
Malaysia	2018	170,578	143,621	26,325	..	..	632	..
	2019	178,440	150,783	26,167	..	..	1,490	..
	2020	174,224	144,794	27,295	..	..	2,136	..
	2021	180,070	146,849	31,101	..	..	2,120	..
Maldives	2018	*773	*745	..	..	2	25	..
	2019	*847	*813	..	..	2	31	..
	2020	*853	*810	..	..	2	40	..
	2021	*857	*812	..	..	*3	*42	..
Mongolia	2018	6,535	6,055	81	..	340	59	..
	2019	6,900	6,416	*85	..	*340	*59	..
	2020	6,970	6,486	85	..	340	59	..
	2021	7,825	7,061	138	..	568	59	..
Myanmar	2018	22,883	11,641	11,228	..	..	14	..
	2019	23,778	14,328	9,369	..	..	81	..
	2020	23,643	15,194	8,370	..	..	79	..
	2021	22,075	12,350	9,590	..	..	135	..
Nepal	2018	4,829	0	4,754	..	0	75	..
	2019	6,134	0	6,061	..	0	73	..
	2020	6,189	0	6,092	..	1	96	..
	2021	9,668	0	9,534	..	1	133	..
Oman	2018	37,718	37,702	..	..	..	16	..
	2019	38,337	38,320	..	..	..	17	..
	2020	38,173	38,045	..	..	..	128	..
	2021	41,122	40,992	..	..	..	*130	..
Other Asia	2018	275,545	235,595	7,852	27,678	1,707	2,712	0
	2019	274,179	227,194	8,753	32,323	1,892	4,016	1
	2020	279,974	233,970	6,178	31,440	2,309	6,075	2
	2021	290,936	246,308	6,653	27,788	2,209	7,969	9
Pakistan	2018	136,461	90,588	32,789	9,134	3,234	716	..
	2019	134,818	82,533	38,802	9,861	2,914	708	..
	2020	144,049	90,212	38,936	11,090	2,900	911	..
	2021	144,435	86,550	35,069	17,045	4,800	971	..
Philippines	2018	101,223	78,985	9,401	..	1,153	1,249	10,435
	2019	107,517	86,496	8,043	..	1,042	1,246	10,691
	2020	103,215	82,851	7,209	..	1,026	1,373	10,757
	2021	107,574	84,952	9,202	..	1,270	1,470	10,681
Qatar	2018	47,913	47,913	..	..	..	..	..
	2019	49,873	49,873	..	..	..	..	..
	2020	49,259	49,259	..	..	..	..	..
	2021	51,641	51,641	..	..	..	..	..
Saudi Arabia	2018	359,257	359,038	..	..	5	*214	..
	2019	367,816	367,341	..	..	6	*469	..
	2020	367,498	366,563	..	..	*6	*929	..
	2021	379,045	377,682	..	..	409	*954	..
Singapore	2018	53,142	52,905	..	..	..	237	..
	2019	54,552	54,142	..	..	..	410	..
	2020	53,582	53,080	..	..	..	502	..
	2021	56,524	55,789	..	..	..	735	..
Sri Lanka	2018	15,985	9,072	6,401	..	326	186	..
	2019	16,630	11,102	4,812	..	350	366	..
	2020	15,801	10,260	4,976	..	344	221	..
	2021	16,716	8,306	7,208	..	645	557	..

Table 33

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
7,916	7,868	..	48	15,234	14,886	348	..	..
9,117	8,999	..	118	14,702	13,737	965	..	..
*5,980	*5,860	..	*120	12,326	11,301	1,025	..	..
*5,776	*5,470	..	306	*7,855	*7,185	*670	..	..
7,163	7,104	0	59	163,415	136,517	26,325	..	573
7,170	7,084	..	*86	171,270	143,699	26,167	..	1,404
6,758	6,666	..	*92	167,466	138,128	27,295	..	2,044
6,769	6,676	..	*93	173,301	140,173	31,101	..	2,027
*280	*280	..	..	*493	*465	..	..	27
*300	*300	..	..	*547	*513	..	..	33
*300	*300	..	..	*553	*510	..	..	43
*300	*300	..	..	*557	*512	..	..	*45
81	..	81	..	6,454	6,055	..	..	399
*85	..	*85	..	6,815	6,416	..	..	*399
85	..	85	..	6,885	6,486	..	..	399
138	..	138	..	7,687	7,061	..	..	627
12,396	8,779	3,602	14	10,487	2,862	7,625	..	..
14,415	10,929	3,405	81	9,363	3,399	5,964	..	..
16,421	13,243	3,099	79	7,222	1,951	5,271	..	..
14,859	11,379	3,345	134	7,216	971	6,245	..	1
163	..	91	73	4,666	0	4,663	..	3
191	..	121	70	5,942	0	5,939	..	3
222	..	143	79	5,966	0	5,949	..	17
227	..	146	81	9,441	0	9,388	..	53
..	..	..	..	37,718	37,702	..	..	16
..	..	..	..	38,337	38,320	..	..	17
..	..	..	..	38,173	38,045	..	..	128
..	..	..	..	41,122	40,992	..	..	*130
41,734	39,108	..	2,626	233,811	196,487	7,852	27,678	1,794
42,082	38,319	..	3,763	232,097	188,875	8,753	32,323	2,146
42,351	37,169	0	5,181	237,623	196,801	6,178	31,440	3,204
45,399	39,037	1	6,361	245,537	207,271	6,652	27,788	3,826
2,980	2,980	..	..	133,481	87,608	32,789	9,134	3,950
2,434	2,434	..	..	132,384	80,099	38,802	9,861	3,622
1,538	1,538	..	..	142,511	88,674	38,936	11,090	3,811
3,066	3,066	..	..	141,369	83,484	35,069	17,045	5,771
*1,458	*1,441	*17	..	99,765	77,544	9,384	..	12,837
*1,475	*1,458	*17	..	106,042	85,038	8,026	..	12,979
*1,460	*1,443	*17	..	101,756	81,408	7,192	..	13,156
*1,460	*1,443	*17	..	106,115	83,509	9,185	..	13,421
46,380	46,380	..	..	1,533	1,533	..	..	..
47,942	47,942	..	..	1,930	1,930	..	..	..
46,500	46,500	..	..	2,759	2,759	..	..	..
50,005	50,005	..	..	1,637	1,637	..	..	..
*121,161	*121,161	..	..	238,096	237,877	..	..	*219
*129,601	*129,601	..	..	238,215	237,740	..	..	*475
*127,936	*127,936	..	..	239,562	238,627	..	..	*935
*129,546	*129,546	..	..	249,499	248,136	..	..	*1,363
4,733	4,733	..	..	48,409	48,172	..	..	237
4,497	4,497	..	..	50,055	49,645	..	..	410
4,661	4,661	..	..	48,921	48,419	..	..	502
4,599	4,599	..	..	51,925	51,190	..	..	735
1,409	87	1,232	89	14,577	8,985	5,169	..	423
1,233	118	1,011	105	15,396	10,984	3,801	..	611
1,269	*118	1,047	*105	14,532	10,142	3,929	..	460
1,987	*156	1,568	263	14,729	8,150	5,640	..	939

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
State of Palestine	2018	420	360	..	..	..	60	..
	2019	811	691	..	..	..	120	..
	2020	840	662	..	..	..	178	..
	2021	917	693	..	..	..	224	..
Syrian Arab Republic	2018	18,164	17,410	754	..	..	..	..
	2019	17,568	16,814	754	..	..	..	..
	2020	16,365	15,611	754	..	..	..	..
	2021	16,916	16,162	754	..	..	..	..
Tajikistan	2018	19,743	1,348	18,395	..	..	..	..
	2019	20,676	1,507	19,169	..	..	..	..
	2020	19,734	1,620	18,114	..	..	..	..
	2021	20,624	1,657	18,967	..	..	..	..
Thailand	2018	182,288	168,326	7,783	..	1,641	4,537	1
	2019	190,681	175,418	6,446	..	3,670	5,146	1
	2020	188,870	176,452	4,656	..	3,124	4,636	1
	2021	*186,889	*174,097	4,687	..	3,462	4,641	1
Timor-Leste	2018	453	450	2	..	..	1	..
	2019	518	515	2	..	..	2	..
	2020	506	503	2	..	..	2	..
	2021	511	508	*2	..	..	*2	..
Türkiye	2018	304,802	208,733	59,938	..	19,949	7,800	8,381
	2019	303,898	174,041	88,823	..	21,731	9,250	10,053
	2020	306,703	181,526	78,094	..	24,828	10,950	11,304
	2021	334,723	221,312	55,927	..	31,437	13,943	12,105
Turkmenistan	2018	22,534	22,531	3	..	..	..	..
	2019	22,534	22,531	3	..	..	..	..
	2020	22,534	22,531	3	..	..	..	..
	2021	22,534	22,528	6	..	..	..	..
United Arab Emirates	2018	*136,014	*134,711	..	..	..	1,303	..
	2019	*138,454	*134,674	..	..	..	3,780	..
	2020	*137,310	*131,835	..	..	..	5,475	..
	2021	149,053	143,301	..	..	..	5,752	..
Uzbekistan	2018	62,408	56,510	5,897	..	..	0	..
	2019	63,021	56,544	6,462	..	16	0	..
	2020	66,516	61,502	4,999	..	16	0	..
	2021	71,414	66,391	4,972	..	1	49	..
Viet Nam	2018	213,199	128,576	84,205	..	312	106	..
	2019	*232,602	*142,200	85,097	..	312	4,993	..
	2020	240,543	156,672	73,461	..	976	9,434	..
	2021	253,498	143,728	78,633	..	3,346	27,791	..
Yemen	2018	3,487	3,003	..	..	..	484	..
	2019	3,277	2,792	..	..	..	484	..
	2020	2,939	2,449	..	..	..	490	..
	2021	2,915	2,425	..	..	..	490	..
Europe	2018	4,902,887	2,424,454	805,188	1,141,487	383,215	129,570	18,974
	2019	4,847,750	2,341,988	763,381	1,139,926	440,654	142,800	19,001
	2020	4,696,299	2,142,817	825,927	1,050,101	489,807	168,790	18,858
	2021	4,900,459	2,271,919	838,910	1,111,485	471,662	187,650	18,833
Albania	2018	8,552	..	8,552	..	..	..	..
	2019	5,206	..	5,184	..	..	22	..
	2020	5,313	..	5,281	..	..	32	..
	2021	8,963	..	8,922	..	..	41	..
Andorra	2018	145	31	114	..	..	1	..
	2019	118	32	85	..	..	1	..
	2020	153	29	124	..	..	1	..
	2021	109	29	79	..	..	1	..

Table 33

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
137	107	..	30	284	254	..	..	30
160	100	..	60	651	591	..	..	60
163	74	..	89	677	588	..	..	89
183	71	..	112	733	621	..	..	112
626	626	..	..	17,538	16,784	754	..	..
562	562	..	..	17,006	16,252	754	..	..
586	586	..	..	15,779	15,025	754	..	..
567	567	..	..	16,349	15,595	754	..	..
..	..	..	..	19,743	1,348	18,395	..	..
..	..	..	..	20,676	1,507	19,169	..	..
..	..	..	..	19,734	1,620	18,114	..	..
..	..	..	..	20,624	1,657	18,967	..	..
64,128	60,089	38	4,001	118,161	108,237	7,745	..	2,178
68,932	64,358	35	4,538	121,749	111,059	6,411	..	4,279
..	..	..	..	188,870	176,452	4,656	..	7,761
..	..	..	..	*186,889	*174,097	4,687	..	8,105
..	..	..	..	453	450	2	..	1
..	..	..	..	518	515	2	..	2
..	..	..	..	506	503	2	..	2
..	..	..	..	511	508	*2	..	*2
19,918	16,334	1,073	2,510	284,884	192,399	58,865	..	33,620
22,934	18,598	1,282	3,053	280,964	155,443	87,540	..	37,980
25,677	20,842	1,026	3,808	281,027	160,684	77,068	..	43,274
30,106	25,321	37	4,748	304,617	195,992	55,889	..	52,736
..	..	..	..	22,534	22,531	3	..	..
..	..	..	..	22,534	22,531	3	..	..
..	..	..	..	22,534	22,531	3	..	..
..	..	..	..	22,534	22,528	6	..	..
..	..	..	..	*136,014	*134,711	..	..	1,303
..	..	..	..	*138,454	*134,674	..	..	3,780
..	..	..	..	*137,310	*131,835	..	..	5,475
..	..	..	..	149,053	143,301	..	..	5,752
..	..	..	..	62,408	56,510	5,897	..	0
..	..	..	..	63,021	56,544	6,462	..	16
..	..	..	..	66,516	61,502	4,999	..	16
297	297	..	..	71,117	66,094	4,972	..	50
*4,282	*4,200	*80	*2	208,917	124,376	84,125	..	416
*4,282	*4,200	*80	*2	*228,320	*138,000	85,017	..	5,303
8,596	8,514	*80	*2	231,947	148,158	73,381	..	10,408
8,679	8,597	*80	*2	244,820	135,132	78,553	..	31,135
729	245	..	484	2,758	2,758	..	..	..
733	248	..	484	2,544	2,544	..	..	..
717	227	..	490	2,222	2,222	..	..	..
715	225	..	490	2,200	2,200	..	..	..
406,101	356,473	10,293	39,335	4,496,785	2,067,982	794,894	1,141,487	492,423
418,170	365,305	10,403	42,462	4,429,580	1,976,683	752,979	1,139,926	559,992
417,626	355,940	10,970	50,716	4,278,674	1,786,877	814,957	1,050,101	626,739
451,857	370,064	10,905	70,888	4,448,602	1,901,855	828,005	1,111,485	607,257
..	..	..	..	8,552	..	8,552	..	..
..	..	..	..	5,206	..	5,184	..	22
..	..	..	..	5,313	..	5,281	..	32
..	..	..	..	8,963	..	8,922	..	41
26	26	..	..	120	5	114	..	1
27	27	..	..	91	6	85	..	1
25	25	..	..	128	4	124	..	1
22	22	..	..	87	7	79	..	1

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Austria	2018	68,618	19,900	41,219	..	6,030	1,455	13
	2019	74,234	20,865	44,204	..	7,450	1,702	13
	2020	72,556	18,368	45,344	..	6,792	2,043	10
	2021	70,752	18,678	42,540	..	6,740	2,783	12
Belarus	2018	38,986	38,386	324	..	99	177	..
	2019	40,465	39,756	350	..	178	181	..
	2020	38,548	37,441	399	338	194	176	..
	2021	41,240	34,749	371	5,780	168	172	..
Belgium	2018	75,040	33,171	1,308	28,597	7,574	3,903	487
	2019	93,646	34,497	1,181	43,524	9,755	4,253	436
	2020	89,455	35,277	1,315	34,435	12,819	5,112	498
	2021	100,465	30,667	1,350	50,326	11,998	5,618	507
Bosnia and Herzegovina	2018	19,160	12,517	6,519	..	103	21	..
	2019	17,493	11,037	6,172	..	254	30	..
	2020	16,874	11,904	4,663	..	262	45	..
	2021	18,536	11,286	6,796	..	382	72	..
Bulgaria	2018	46,838	22,606	5,423	16,125	1,318	1,343	22
	2019	44,277	21,573	3,383	16,555	1,317	1,417	31
	2020	40,754	17,827	3,320	16,626	1,477	1,469	36
	2021	47,568	23,079	5,067	16,487	1,434	1,467	35
Croatia	2018	13,632	4,435	7,785	..	1,335	75	2
	2019	12,760	5,185	5,933	..	1,467	83	92
	2020	13,385	5,665	5,810	..	1,721	96	94
	2021	15,210	5,681	7,229	..	2,062	149	90
Czechia	2018	88,038	52,338	2,679	29,921	609	2,365	125
	2019	87,056	50,474	3,175	30,246	700	2,337	124
	2020	81,568	44,933	3,437	30,043	699	2,338	118
	2021	85,082	47,677	3,620	30,731	602	2,316	136
Denmark	2018	30,370	15,500	15	..	13,902	953	..
	2019	29,517	12,387	17	..	16,150	963	..
	2020	28,729	11,201	17	..	16,330	1,181	..
	2021	33,049	15,669	16	..	16,054	1,309	..
Estonia	2018	12,364	11,682	15	..	636	31	..
	2019	7,616	6,836	19	..	687	74	..
	2020	6,078	4,959	30	..	844	245	..
	2021	7,204	6,095	23	..	733	354	..
Faeroe Islands	2018	352	180	108	..	64	..	..
	2019	386	230	104	..	53	..	..
	2020	407	251	109	..	47	0	..
	2021	424	269	100	..	54	0	0
Finland	2018	70,263	27,959	13,301	22,793	5,839	90	281
	2019	68,650	25,923	12,421	23,870	6,025	147	264
	2020	69,268	21,392	15,883	23,291	8,256	218	227
	2021	72,121	23,671	15,792	23,598	8,507	298	255
France	2018	581,819	57,647	70,472	412,942	28,599	10,925	1,235
	2019	570,949	62,148	61,572	399,012	34,722	12,330	1,166
	2020	532,386	56,901	67,095	353,833	39,861	13,459	1,237
	2021	555,283	58,263	63,956	379,361	36,831	15,732	1,139
Germany	2018	640,468	385,445	23,863	76,005	109,951	43,459	1,745
	2019	606,917	334,214	25,671	75,071	125,894	44,383	1,684
	2020	575,462	302,330	25,275	64,382	132,102	49,496	1,877
	2021	588,343	328,342	24,973	69,130	114,647	49,340	1,911
Gibraltar	2018	215	215	..	..	..	..	0
	2019	220	220	..	..	..	..	0
	2020	215	215	..	..	..	..	0
	2021	233	233	..	..	..	..	0

Table 33

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
7,987	7,500	474	13	60,631	12,400	40,745	..	7,486
7,966	7,419	535	13	66,268	13,446	43,669	..	9,152
7,837	7,371	456	10	64,719	10,997	44,888	..	8,835
8,088	7,669	407	12	62,664	11,009	42,133	..	9,523
3,960	3,876	8	76	35,026	34,510	316	..	200
4,263	4,160	7	96	36,202	35,596	343	..	263
4,072	3,974	8	90	34,476	33,467	391	338	280
3,782	3,688	7	86	37,458	31,061	364	5,780	254
12,158	7,745	..	4,414	62,882	25,426	1,308	28,597	7,551
13,893	9,159	..	4,734	79,753	25,339	1,181	43,524	9,710
15,119	9,453	..	5,666	74,336	25,824	1,315	34,435	12,763
15,644	9,511	..	6,133	84,822	21,156	1,350	50,326	11,989
438	438	..	..	18,722	12,079	6,519	..	124
412	412	..	..	17,081	10,625	6,172	..	284
347	347	..	..	16,527	11,557	4,663	..	307
414	414	..	..	18,122	10,872	6,796	..	454
708	686	..	22	46,130	21,921	5,423	16,125	2,661
721	690	..	31	43,555	20,883	3,383	16,555	2,734
737	702	..	36	40,017	17,125	3,320	16,626	2,946
926	891	..	35	46,642	22,188	5,067	16,487	2,900
373	367	6	..	13,259	4,068	7,779	..	1,412
375	370	6	..	12,385	4,816	5,927	..	1,642
405	399	6	..	12,980	5,266	5,805	..	1,910
346	340	6	..	14,865	5,341	7,223	..	2,300
8,785	8,191	494	99	79,253	44,147	2,185	29,921	3,000
8,737	8,065	575	98	78,318	42,409	2,600	30,246	3,063
9,066	8,333	644	89	72,502	36,600	2,793	30,043	3,066
9,177	8,375	693	110	75,905	39,302	2,927	30,731	2,944
3,097	2,144	..	953	27,273	13,356	15	..	13,902
3,202	2,239	..	963	26,315	10,148	17	..	16,150
3,419	2,238	..	1,181	25,310	8,963	17	..	16,330
3,564	2,255	..	1,309	29,485	13,414	16	..	16,054
124	123	..	1	12,241	11,560	15	..	666
94	91	1	2	7,521	6,745	18	..	759
183	177	4	2	5,896	4,782	26	..	1,087
176	172	2	2	7,029	5,923	21	..	1,085
..	..	..	..	352	180	108	..	64
..	..	..	..	386	230	104	..	53
..	..	..	..	407	251	109	..	47
..	..	..	..	424	269	100	..	54
10,711	9,474	944	292	59,552	18,484	12,357	22,793	5,918
10,819	9,713	760	346	57,831	16,210	11,661	23,870	6,090
10,079	8,602	1,094	383	59,189	12,790	14,789	23,291	8,319
10,585	9,013	1,084	488	61,536	14,658	14,708	23,598	8,572
20,654	16,242	609	3,804	561,165	41,405	69,863	412,942	36,955
22,316	17,405	595	4,315	548,633	44,742	60,977	399,012	43,902
21,679	16,208	589	4,881	510,708	40,693	66,506	353,833	49,676
21,578	15,798	561	5,220	533,705	42,465	63,395	379,361	48,484
54,957	53,785	87	1,085	585,511	331,660	23,776	76,005	154,070
53,336	52,318	98	920	553,581	281,896	25,573	75,071	171,041
53,010	51,839	84	1,087	522,452	250,491	25,191	64,382	182,388
54,791	53,605	100	1,086	533,552	274,737	24,873	69,130	164,812
..	..	..	..	215	215	..	..	0
..	..	..	..	220	220	..	..	0
..	..	..	..	215	215	..	..	0
..	..	..	..	233	233	..	..	0

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Greece	2018	53,263	37,412	5,760	..	6,300	3,791	..
	2019	48,626	32,880	4,051	..	7,266	4,429	..
	2020	48,252	31,055	3,440	..	9,310	4,447	..
	2021	54,715	33,020	5,961	..	10,483	5,251	..
Guernsey	2018	54	54	..	..	..	0	..
	2019	165	164	..	..	..	0	..
	2020	23	23	..	..	..	0	..
	2021	27	27	..	..	..	0	..
Hungary	2018	32,067	14,725	222	15,733	607	629	151
	2019	34,291	15,429	219	16,288	729	1,497	129
	2020	34,930	15,358	244	16,055	655	2,459	159
	2021	36,120	15,301	212	15,990	664	3,796	157
Iceland	2018	19,830	2	13,814	..	4	..	6,010
	2019	19,489	3	13,461	..	7	..	6,018
	2020	19,127	3	13,157	..	7	..	5,961
	2021	19,614	2	13,804	..	6	..	5,802
Ireland	2018	31,139	21,546	932	..	8,640	22	..
	2019	30,962	19,771	1,132	..	10,019	40	..
	2020	32,276	19,440	1,224	..	11,549	62	..
	2021	31,872	20,968	1,036	..	9,776	93	..
Isle of Man	2018	493	490	*2	..	..	..	..
	2019	581	578	3	..	..	..	..
	2020	552	548	4	..	..	..	..
	2021	360	356	4	..	..	..	..
Italy	2018	289,708	192,129	50,503	..	17,716	22,654	6,707
	2019	293,853	195,084	48,154	..	20,202	23,689	6,725
	2020	280,531	180,805	49,495	..	18,762	24,942	6,528
	2021	289,070	189,132	47,478	..	20,927	25,039	6,493
Jersey	2018	45	45	..	..	..	..	..
	2019	44	44	..	..	..	..	..
	2020	43	43	..	..	..	..	..
	2021	33	33	..	..	..	..	..
Kosovo	2018	5,915	5,611	273	..	30	2	..
	2019	6,348	6,037	210	..	91	11	..
	2020	6,713	6,348	263	..	90	12	..
	2021	6,892	6,453	297	..	126	16	..
Latvia	2018	6,725	4,170	2,432	..	122	1	..
	2019	6,438	4,174	2,108	..	154	3	..
	2020	5,725	2,940	2,603	..	177	5	..
	2021	5,846	2,990	2,708	..	141	7	..
Liechtenstein	2018	89	2	62	..	..	25	..
	2019	103	2	75	..	..	26	..
	2020	104	2	72	..	..	30	..
	2021	107	3	74	..	..	31	..
Lithuania	2018	3,511	1,089	960	..	1,144	87	232
	2019	3,972	1,210	948	..	1,499	91	223
	2020	5,518	2,550	1,080	..	1,552	129	207
	2021	5,079	2,240	1,094	..	1,362	191	193
Luxembourg	2018	2,200	490	1,337	..	255	119	..
	2019	1,908	547	949	..	281	130	..
	2020	2,234	628	1,094	..	351	161	..
	2021	2,211	632	1,085	..	314	180	..
Malta	2018	1,962	1,772	..	..	0	190	..
	2019	2,060	1,864	..	..	0	195	..
	2020	2,143	1,906	..	..	0	237	..
	2021	2,215	1,959	..	..	0	256	..

Table 33

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
2,215	2,215	..	..	51,048	35,197	5,760	..	10,091
2,480	2,480	..	..	46,146	30,400	4,051	..	11,695
2,712	2,712	..	..	45,539	28,342	3,440	..	13,757
2,795	2,795	..	..	51,920	30,225	5,961	..	15,734
..	..	..	..	54	54	..	..	0
..	..	..	..	165	164	..	..	0
..	..	..	..	23	23	..	..	0
..	..	..	..	27	27	..	..	0
1,577	982	..	595	30,490	13,743	222	15,733	792
1,978	1,056	..	922	32,313	14,373	219	16,288	1,433
2,352	1,017	..	1,335	32,578	14,341	244	16,055	1,938
2,850	957	..	1,893	33,270	14,344	212	15,990	2,724
..	..	..	..	19,830	2	13,814	..	6,014
..	..	..	..	19,489	3	13,461	..	6,025
..	..	..	..	19,127	3	13,157	..	5,967
..	..	..	..	19,614	2	13,804	..	5,808
2,215	2,153	..	62	28,925	19,393	932	..	8,600
2,176	2,084	..	92	28,786	17,687	1,132	..	9,967
2,203	2,088	..	115	30,073	17,352	1,224	..	11,496
2,215	2,064	..	151	29,658	18,904	1,036	..	9,718
*33	*33	..	..	460	457	*2	..	..
*33	*33	..	..	548	545	3	..	..
*33	*33	..	..	518	515	4	..	..
*32	*32	..	..	328	324	4	..	..
22,784	22,114	466	204	266,925	170,015	50,037	..	46,873
22,340	21,695	492	153	271,513	173,389	47,661	..	50,463
20,335	19,658	465	212	260,196	161,147	49,030	..	50,019
38,151	22,200	469	15,482	250,918	166,932	47,009	..	36,977
43	43	..	..	2	2	..	..	..
42	42	..	..	2	2	..	..	..
42	42	..	..	1	1	..	..	..
32	32	..	..	1	1	..	..	..
..	..	..	..	5,915	5,611	273	..	32
0	..	..	0	6,348	6,037	210	..	101
..	..	..	..	6,713	6,348	263	..	102
..	..	..	..	6,892	6,453	297	..	142
190	186	2	2	6,535	3,984	2,430	..	121
187	180	2	5	6,251	3,994	2,106	..	152
182	173	2	7	5,543	2,767	2,601	..	175
168	157	2	9	5,678	2,833	2,706	..	140
..	..	..	..	89	2	62	..	25
..	..	..	..	103	2	75	..	26
..	..	..	..	104	2	72	..	30
..	..	..	..	107	3	74	..	31
647	416	..	232	2,864	674	960	..	1,231
821	598	..	223	3,151	612	948	..	1,591
816	609	..	207	4,702	1,941	1,080	..	1,681
697	505	..	193	4,382	1,735	1,094	..	1,553
282	159	4	119	1,918	331	1,332	..	255
285	150	5	130	1,623	398	944	..	281
309	143	5	161	1,926	485	1,090	..	351
292	128	5	160	1,919	504	1,080	..	335
199	9	..	190	1,763	1,763	..	..	..
202	6	..	195	1,858	1,858	..	..	..
243	6	..	237	1,900	1,900	..	..	..
263	7	..	256	1,952	1,952	..	..	..

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Montenegro	2018	3,679	1,444	2,092	..	141	2	..
	2019	3,423	1,506	1,621	..	293	2	..
	2020	3,386	1,615	1,448	..	320	2	..
	2021	3,777	1,444	2,010	..	320	3	..
Netherlands (Kingd. of the)	2018	114,264	95,830	72	3,515	10,549	3,708	591
	2019	121,355	99,917	74	3,910	11,508	5,399	547
	2020	123,287	94,795	46	4,087	15,278	8,568	512
	2021	122,132	88,194	88	3,828	18,005	11,495	522
North Macedonia	2018	5,870	4,581	1,164	..	102	23	..
	2019	5,870	4,581	1,164	..	102	23	..
	2020	5,347	3,929	1,277	..	117	24	..
	2021	5,532	3,926	1,452	..	103	51	..
Norway	2018	147,097	3,169	139,714	..	3,877	2	334
	2019	134,907	3,011	126,030	..	5,525	13	328
	2020	155,249	2,441	142,471	..	9,913	136	289
	2021	157,966	1,301	144,339	..	11,769	175	383
Poland	2018	170,039	154,428	2,387	..	12,799	300	125
	2019	163,989	145,269	2,665	..	15,107	711	237
	2020	158,043	137,254	2,937	..	15,800	1,958	94
	2021	179,631	156,279	3,101	..	16,234	3,934	84
Portugal	2018	59,636	32,155	13,628	..	12,617	1,006	230
	2019	53,154	27,687	10,243	..	13,667	1,342	215
	2020	53,078	25,214	13,633	..	12,299	1,716	217
	2021	50,980	21,894	13,455	..	13,216	2,237	179
Republic of Moldova	2018	954	884	44	..	23	3	..
	2019	941	830	65	..	43	3	..
	2020	983	881	47	..	51	4	..
	2021	1,131	976	68	..	77	10	..
Romania	2018	64,876	27,308	18,097	11,377	6,322	1,771	..
	2019	59,623	23,787	16,006	11,280	6,773	1,778	..
	2020	55,935	20,088	15,701	11,466	6,945	1,733	..
	2021	59,470	22,162	17,745	11,284	6,576	1,703	..
Russian Federation	2018	1,115,093	716,119	193,027	204,569	232	720	426
	2019	1,121,492	713,955	196,510	208,984	331	1,279	433
	2020	1,089,668	655,850	214,388	215,745	1,241	2,022	421
	2021	1,159,416	714,777	216,143	222,530	3,311	2,225	430
Serbia	2018	37,426	25,869	11,393	..	150	13	..
	2019	37,600	26,490	10,198	..	898	14	..
	2020	37,956	27,219	9,749	..	976	13	..
	2021	38,236	25,153	11,984	..	1,085	14	..
Slovakia	2018	26,971	7,542	3,879	14,843	6	585	116
	2019	28,434	7,953	4,571	15,282	6	589	33
	2020	28,838	7,897	4,799	15,444	4	663	31
	2021	30,016	8,999	4,552	15,730	5	671	59
Slovenia	2018	16,327	5,397	4,893	5,776	6	255	..
	2019	16,100	5,287	4,683	5,821	6	303	..
	2020	17,191	5,239	5,225	6,353	6	368	..
	2021	15,877	4,715	4,997	5,706	6	453	..
Spain	2018	274,452	118,149	36,803	55,766	50,896	12,744	94
	2019	273,257	117,125	26,874	58,349	55,647	15,103	159
	2020	263,373	93,778	33,998	58,299	56,444	20,667	187
	2021	274,312	95,443	32,847	56,564	62,061	27,098	299
Sweden	2018	163,400	15,571	62,250	68,549	16,623	407	..
	2019	168,439	16,390	65,393	66,130	19,847	679	..
	2020	163,833	13,618	72,440	49,198	27,526	1,051	..
	2021	171,798	16,137	73,926	52,965	27,244	1,526	..

Table 33

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	3,679	1,444	2,092	..	143
..	..	..	..	3,423	1,506	1,621	..	296
..	..	..	..	3,386	1,615	1,448	..	322
..	..	..	..	3,777	1,444	2,010	..	323
26,853	22,254	..	4,599	87,411	73,576	72	3,515	10,248
29,004	22,894	..	6,109	92,352	77,022	74	3,910	11,346
34,534	25,729	..	8,805	88,753	69,066	46	4,087	15,554
37,317	26,303	..	11,014	84,815	61,891	88	3,828	19,009
..	..	..	..	5,870	4,581	1,164	..	125
..	..	..	..	5,870	4,581	1,164	..	125
..	..	..	..	5,347	3,929	1,277	..	141
..	..	..	..	5,532	3,926	1,452	..	154
2,922	2,586	..	337	144,175	584	139,714	..	3,877
2,721	2,380	..	341	132,185	631	126,030	..	5,525
2,231	1,806	..	425	153,018	635	142,471	..	9,913
1,249	692	..	558	156,717	609	144,339	..	11,769
14,847	14,418	3	425	155,193	140,010	2,384	..	12,799
17,214	16,263	3	948	146,774	129,006	2,662	..	15,107
18,795	16,741	3	2,052	139,247	120,513	2,934	..	15,800
18,997	14,977	2	4,018	160,634	141,302	3,099	..	16,234
8,324	7,814	19	491	51,312	24,341	13,610	..	13,362
8,678	7,998	18	662	44,477	19,689	10,225	..	14,563
8,877	7,895	18	965	44,201	17,319	13,615	..	13,267
8,495	7,432	14	1,048	42,485	14,461	13,440	..	14,584
72	57	..	15	882	827	44	..	11
79	53	..	26	862	777	65	..	20
70	46	..	24	913	835	47	..	31
109	57	..	52	1,022	919	68	..	35
7,394	6,799	238	357	57,482	20,509	17,859	11,377	7,736
6,405	5,715	270	421	53,218	18,072	15,736	11,280	8,130
7,287	6,561	269	457	48,648	13,527	15,432	11,466	8,222
8,419	7,260	312	847	51,052	14,902	17,433	11,284	7,432
75,447	74,293	1,154	..	1,039,647	641,826	191,873	204,569	1,378
76,525	75,348	1,177	..	1,044,968	638,607	195,334	208,984	2,043
71,098	69,813	1,285	..	1,018,570	586,036	213,104	215,745	3,685
80,596	79,300	1,297	..	1,078,819	635,477	214,846	222,530	5,966
543	543	..	..	36,883	25,326	11,393	..	163
470	470	..	..	37,130	26,020	10,198	..	912
474	474	..	..	37,483	26,745	9,749	..	989
527	527	..	..	37,708	24,626	11,984	..	1,098
3,515	2,892	111	512	23,456	4,650	3,768	14,843	195
3,089	2,556	120	413	25,345	5,397	4,451	15,282	215
3,066	2,462	128	476	25,772	5,435	4,671	15,444	222
3,261	2,630	129	502	26,755	6,369	4,423	15,730	233
724	255	221	248	15,603	5,142	4,672	5,776	13
769	261	213	295	15,331	5,026	4,470	5,821	14
851	273	218	360	16,340	4,966	5,007	6,353	15
925	256	227	442	14,952	4,459	4,770	5,706	17
37,587	36,389	909	289	236,865	81,760	35,894	55,766	63,445
38,316	37,059	897	360	234,941	80,066	25,977	58,349	70,549
35,666	34,190	972	504	227,707	59,588	33,026	58,299	76,794
37,828	35,506	881	1,441	236,484	59,937	31,966	56,564	88,017
6,139	6,128	11	..	157,261	9,443	62,239	68,549	17,030
6,964	6,959	5	..	161,475	9,431	65,388	66,130	20,526
6,609	6,609	..	..	157,224	7,009	72,440	49,198	28,577
6,894	6,894	..	..	164,904	9,243	73,926	52,965	28,770

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Switzerland	2018	69,110	3,728	37,802	25,513	122	1,945	..
	2019	73,478	3,775	40,962	26,418	146	2,178	..
	2020	71,654	3,863	41,022	24,025	145	2,599	..
	2021	66,042	3,796	39,895	19,364	146	2,842	..
Ukraine	2018	159,833	61,104	12,007	84,398	1,188	1,099	37
	2019	154,141	58,201	7,855	83,003	2,020	2,933	129
	2020	148,408	55,258	7,564	76,203	3,271	5,969	144
	2021	158,083	52,004	10,333	86,206	2,833	6,565	144
United Kingdom	2018	331,997	189,629	7,942	65,064	56,685	12,668	9
	2019	323,199	183,059	7,689	56,184	63,835	12,418	14
	2020	310,748	163,537	8,404	50,278	75,615	12,903	11
	2021	307,317	177,217	7,390	45,904	64,662	12,138	5
Latin America & Carib.	2018	1,674,775	766,188	758,642	35,802	78,659	13,981	21,504
	2019	1,672,888	754,031	739,433	35,246	95,212	25,811	23,156
	2020	1,625,440	714,966	724,394	36,022	104,883	34,991	10,184
	2021	1,751,339	823,023	703,388	37,458	126,952	48,965	11,553
Anguilla	2018	83	81	..	..	..	2	..
	2019	100	97	..	..	..	3	..
	2020	90	88	..	..	..	*3	..
	2021	98	95	..	..	..	*3	..
Antigua and Barbuda	2018	362	349	..	..	..	13	..
	2019	358	345	..	..	..	13	..
	2020	347	330	..	..	..	16	..
	2021	351	334	..	..	..	*17	..
Argentina	2018	152,224	102,820	41,430	6,453	1,413	108	..
	2019	145,990	95,389	36,878	7,927	4,996	800	..
	2020	144,924	99,199	24,262	10,707	9,412	1,345	..
	2021	153,779	107,628	20,186	10,831	12,938	2,196	..
Aruba	2018	*931	*748	..	..	*175	*8	..
	2019	*973	*798	..	..	*165	*10	..
	2020	*912	*736	..	..	*165	*11	..
	2021	*955	*772	..	..	*172	*11	..
Bahamas	2018	1,925	1,923	..	..	..	2	..
	2019	1,895	1,892	..	..	..	3	..
	2020	1,796	1,793	..	..	..	*3	..
	2021	1,859	1,856	..	..	..	*3	..
Barbados	2018	*1,038	*994	..	..	..	44	..
	2019	*1,053	*1,001	..	..	..	52	..
	2020	*982	*914	..	..	..	69	..
	2021	*992	*907	..	..	..	85	..
Belize	2018	416	166	250	..	..	1	..
	2019	305	230	75	..	..	1	..
	2020	434	191	242	..	..	1	..
	2021	404	244	158	..	..	*3	..
Bolivia (Plur. State of)	2018	9,855	7,056	2,612	..	59	127	..
	2019	10,172	6,662	3,251	..	70	188	..
	2020	9,977	6,638	2,942	..	64	332	..
	2021	10,834	7,127	3,237	..	120	351	..
Bonaire, St Eustatius, Saba	2018	137	91	..	..	37	*8	..
	2019	145	104	..	..	33	*9	..
	2020	145	112	..	..	25	*8	..
	2021	156	119	..	..	*28	*10	..
Brazil	2018	601,396	144,815	388,971	15,674	48,475	3,461	..
	2019	626,329	149,682	397,877	16,129	55,986	6,655	..
	2020	621,198	143,017	396,328	14,053	57,050	10,750	..
	2021	656,109	189,301	362,818	14,705	72,286	16,752	247

Table 33

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
7,965	3,132	2,888	1,945	61,145	596	34,915	25,513	122
8,218	3,158	2,883	2,178	65,260	617	38,079	26,418	146
8,640	3,187	2,854	2,599	63,014	676	38,168	24,025	145
8,849	3,078	2,929	2,842	57,193	718	36,966	19,364	146
2,658	2,611	2	45	157,175	58,493	12,005	84,398	2,279
2,262	2,124	..	138	151,880	56,077	7,855	83,003	4,944
3,328	3,161	..	167	145,080	52,097	7,564	76,203	9,217
3,576	3,407	..	169	154,508	48,597	10,333	86,206	9,372
56,951	37,399	1,643	17,909	275,047	152,230	6,299	65,064	51,454
60,751	41,675	1,743	17,333	262,448	141,384	5,946	56,184	58,934
60,896	40,844	1,867	18,185	249,853	122,694	6,537	50,278	70,344
58,230	41,117	1,780	15,334	249,087	136,100	5,610	45,904	61,472
220,141	184,070	23,948	12,123	1,454,635	582,118	734,694	35,802	102,021
220,574	181,182	23,968	15,424	1,452,315	572,849	715,465	35,246	128,755
225,305	184,798	21,950	18,557	1,400,135	530,168	702,444	36,022	131,501
228,568	183,978	20,861	23,729	1,522,771	639,044	682,527	37,458	163,741
..	..	..	..	83	81	..	..	2
..	..	..	..	100	97	..	..	3
..	..	..	..	90	88	..	..	*3
..	..	..	..	98	95	..	..	*3
*1	*1	..	..	361	348	..	..	13
*1	*1	..	..	357	344	..	..	13
*1	*1	..	..	346	329	..	..	16
*1	*1	..	..	350	333	..	..	*17
14,744	14,698	46	..	137,480	88,122	41,384	6,453	1,521
14,744	14,698	46	..	131,246	80,691	36,832	7,927	5,796
13,785	13,743	42	..	131,139	85,456	24,220	10,707	10,757
13,785	13,743	42	..	139,994	93,885	20,144	10,831	15,134
..	..	..	..	*931	*748	..	..	*183
..	..	..	..	*973	*798	..	..	*175
..	..	..	..	*912	*736	..	..	*176
..	..	..	..	*955	*772	..	..	*183
*80	*80	..	..	1,845	1,843	..	..	2
*92	*92	..	..	1,803	1,800	..	..	3
*98	*98	..	..	1,698	1,695	..	..	*3
*105	*105	..	..	1,754	1,751	..	..	*3
17	17	..	..	*1,021	*976	..	..	44
18	18	..	..	*1,035	*983	..	..	52
17	17	..	..	*966	*897	..	..	69
17	17	..	..	*975	*891	..	..	85
94	94	..	..	322	72	250	..	1
92	92	..	..	213	137	75	..	1
74	74	..	..	360	117	242	..	1
62	62	..	..	342	182	158	..	*3
362	356	7	..	9,493	6,701	2,606	..	186
435	429	7	..	9,737	6,234	3,245	..	258
432	429	3	..	9,545	6,209	2,939	..	397
663	659	4	..	10,171	6,468	3,233	..	470
..	..	..	..	137	91	..	..	45
..	..	..	..	145	104	..	..	41
..	..	..	..	145	112	..	..	33
..	..	..	..	156	119	..	..	*38
101,164	81,273	19,330	561	500,232	63,542	369,641	15,674	51,375
102,385	81,249	19,427	1,709	523,944	68,433	378,450	16,129	60,932
106,451	83,876	17,745	4,830	514,747	59,141	378,583	14,053	62,970
113,968	88,564	16,002	9,402	542,141	100,737	346,816	14,705	79,883

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
British Virgin Islands	2018	160	159	..	..	1	0	..
	2019	199	198	..	..	1	0	..
	2020	*203	*201	..	..	1	0	..
	2021	*207	*205	..	..	1	0	..
Cayman Islands	2018	658	658	..	..	..	..	..
	2019	696	696	..	..	..	..	..
	2020	668	668	..	..	..	..	..
	2021	678	678	..	..	..	..	..
Chile	2018	82,339	49,952	23,367	..	3,588	5,218	214
	2019	84,558	50,564	22,477	..	4,897	6,419	202
	2020	83,994	48,331	21,873	..	5,602	7,971	216
	2021	88,019	50,154	19,348	..	7,628	10,565	324
Colombia	2018	78,426	21,563	56,809	..	43	11	..
	2019	80,415	25,622	54,594	..	63	137	..
	2020	79,550	29,361	49,977	..	10	201	..
	2021	84,428	23,337	60,696	..	60	335	..
Costa Rica	2018	11,528	358	8,343	..	1,799	60	969
	2019	11,508	295	7,827	..	1,796	77	1,513
	2020	11,730	217	8,294	..	1,459	70	1,689
	2021	12,737	194	9,286	..	1,573	82	1,602
Cuba	2018	20,837	20,524	146	..	*44	*124	..
	2019	20,706	20,331	125	..	*65	*186	..
	2020	19,071	18,698	112	..	*68	*193	..
	2021	17,966	17,581	120	..	*69	*196	..
Curaçao	2018	866	612	..	..	234	20	..
	2019	*880	*637	..	..	218	25	..
	2020	*844	*626	..	..	191	27	..
	2021	846	622	..	..	197	27	..
Dominica	2018	110	*85	24	..	1	0	..
	2019	138	117	20	..	*1	0	..
	2020	142	122	19	..	*1	0	..
	2021	146	125	20	..	1	0	..
Dominican Republic	2018	19,651	17,144	1,780	..	497	230	..
	2019	19,857	18,121	928	..	552	256	..
	2020	19,293	16,544	1,176	..	1,139	434	..
	2021	21,314	17,865	1,859	..	1,231	358	..
Ecuador	2018	29,244	8,447	20,678	..	80	38	..
	2019	32,284	7,520	24,641	..	86	38	..
	2020	31,248	6,800	24,333	..	77	38	..
	2021	32,214	6,541	25,575	..	62	37	..
El Salvador	2018	5,359	1,937	1,631	..	..	246	1,545
	2019	6,070	2,582	1,526	..	..	489	1,474
	2020	6,350	1,790	2,084	..	14	904	1,557
	2021	6,475	1,888	1,821	..	132	1,074	1,559
Falkland Is. (Malvinas)	2018	18	12	..	..	5	0	..
	2019	18	13	..	..	5	0	..
	2020	18	14	..	..	4	0	..
	2021	19	14	..	..	4	0	..
Grenada	2018	235	231	..	..	0	3	..
	2019	245	241	..	..	0	4	..
	2020	227	223	..	..	0	4	..
	2021	229	225	..	..	0	*4	..
Guatemala	2018	13,568	7,572	5,218	..	320	208	250
	2019	*14,083	*8,855	4,497	..	221	199	312
	2020	12,835	*6,004	5,966	..	317	222	326
	2021	14,420	*7,954	5,646	..	325	230	265

Table 33

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	160	159	..	..	1
..	..	..	..	199	198	..	..	1
..	..	..	..	*203	*201	..	..	2
..	..	..	..	*207	*205	..	..	2
..	..	..	..	658	658	..	..	..
..	..	..	..	696	696	..	..	..
..	..	..	..	668	668	..	..	..
..	..	..	..	678	678	..	..	..
6,975	6,910	60	5	75,364	43,043	23,307	..	9,015
6,525	6,488	30	8	78,033	44,076	22,447	..	11,510
6,625	6,548	58	19	77,369	41,783	21,816	..	13,770
6,628	6,402	168	59	81,391	43,752	19,180	..	18,458
9,483	9,322	161	..	68,943	12,241	56,648	..	54
11,039	10,872	157	10	69,377	14,749	54,437	..	191
11,008	10,858	140	10	68,541	18,503	49,837	..	201
11,292	11,080	200	12	73,136	12,257	60,496	..	383
250	200	..	50	11,279	159	8,343	..	2,777
267	200	..	67	11,241	96	7,827	..	3,319
254	193	..	61	11,476	24	8,294	..	3,158
264	191	..	73	12,473	3	9,286	..	3,184
763	763	..	..	20,074	19,761	146	..	*168
844	844	..	..	19,861	19,486	125	..	*251
914	914	..	..	18,157	17,784	112	..	*261
861	861	..	..	17,105	16,720	120	..	*265
114	114	..	..	752	498	..	..	254
43	43	..	..	*837	*595	..	..	243
24	24	..	..	*820	*601	..	..	219
14	14	..	..	832	608	..	..	224
*44	*44	..	..	66	41	24	..	1
*44	*44	..	..	94	73	20	..	*1
*44	*44	..	..	98	78	19	..	*1
*44	*44	..	..	102	81	20	..	2
2,011	1,856	7	148	17,640	15,288	1,773	..	580
3,512	3,348	..	164	16,345	14,774	928	..	643
1,663	1,385	..	279	17,630	15,160	1,176	..	1,294
1,562	1,414	..	148	19,752	16,452	1,859	..	1,441
5,494	4,129	1,365	..	23,750	4,318	19,313	..	118
5,914	4,254	1,660	..	26,369	3,266	22,980	..	123
5,636	4,049	1,587	..	25,612	2,751	22,747	..	115
6,243	4,451	1,792	..	25,971	2,089	23,783	..	99
227	27	83	117	5,132	1,910	1,548	..	1,675
382	29	81	273	5,688	2,553	1,445	..	1,690
527	27	94	406	5,822	1,763	1,990	..	2,069
618	21	86	510	5,857	1,867	1,735	..	2,255
..	..	..	..	18	12	..	..	5
..	..	..	..	18	13	..	..	5
..	..	..	..	18	14	..	..	4
..	..	..	..	19	14	..	..	5
7	3	..	4	228	228	..	..	..
7	3	..	4	238	238	..	..	..
8	3	..	4	220	220	..	..	..
*8	3	..	*5	221	221	..	..	..
1,046	1,018	27	..	12,522	6,554	5,191	..	778
1,335	1,308	27	..	*12,748	*7,547	4,470	..	732
891	859	32	..	11,944	*5,145	5,934	..	865
1,117	1,085	32	..	*13,303	*6,869	5,614	..	820

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						Other
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	
Guyana	2018	1,136	1,125	..	..	0	11	..
	2019	1,135	1,123	..	..	0	11	..
	2020	1,136	1,124	..	..	0	12	..
	2021	1,138	1,125	..	..	0	13	..
Haiti	2018	1,048	848	197	..	..	3	..
	2019	1,064	887	174	..	..	3	..
	2020	1,029	882	144	..	..	3	..
	2021	1,033	896	134	..	..	3	..
Honduras	2018	9,629	4,253	3,158	..	929	993	297
	2019	10,586	5,866	2,430	..	818	1,176	296
	2020	10,059	5,232	2,701	..	707	1,113	307
	2021	10,957	4,940	3,765	..	775	1,129	348
Jamaica	2018	4,402	3,875	179	..	302	46	..
	2019	4,465	3,948	155	..	272	90	..
	2020	4,939	4,399	136	..	280	124	..
	2021	4,705	4,170	139	..	264	132	..
Mexico	2018	357,592	279,724	32,526	13,675	12,877	1,363	17,427
	2019	344,839	267,416	23,716	11,190	16,880	7,057	18,580
	2020	317,680	245,464	26,817	11,262	19,702	9,115	5,320
	2021	379,696	294,525	32,869	11,923	20,896	13,010	6,473
Montserrat	2018	14	14	..	..	..	..	..
	2019	14	14	..	..	..	0	..
	2020	14	14	..	..	..	0	..
	2021	16	14	..	..	..	2	..
Nicaragua	2018	4,636	2,599	411	..	801	24	801
	2019	4,576	2,815	227	..	730	26	778
	2020	3,791	1,873	574	..	550	26	767
	2021	4,213	2,197	599	..	656	27	734
Panama	2018	11,465	2,556	8,065	..	588	256	..
	2019	13,050	6,806	5,196	..	725	324	..
	2020	12,949	4,517	7,502	..	584	346	..
	2021	14,197	4,429	8,625	..	530	612	..
Paraguay	2018	59,212	2	59,211	..	..	..	..
	2019	49,448	2	49,446	..	..	..	..
	2020	46,373	2	46,371	..	..	..	..
	2021	40,576	2	40,574	..	..	..	..
Peru	2018	54,982	21,946	30,737	..	1,502	797	..
	2019	57,038	23,088	31,462	..	1,655	833	..
	2020	52,803	19,624	30,510	..	1,814	856	..
	2021	56,836	22,261	31,890	..	1,821	864	..
Puerto Rico	2018	17,453	17,226	38	..	108	81	..
	2019	18,886	18,444	41	..	159	242	..
	2020	18,774	18,321	51	..	143	259	..
	2021	19,184	18,705	40	..	166	273	..
Sint Maarten (Dutch part)	2018	*291	*291	..	..	..	..	..
	2019	*296	*296	..	..	..	..	..
	2020	265	265	..	..	..	..	..
	2021	*286	*286	..	..	..	..	..
St. Kitts-Nevis	2018	*230	*221	..	..	6	3	..
	2019	*233	*224	..	..	6	3	..
	2020	*221	*210	..	..	6	5	..
	2021	*219	*208	..	..	6	5	..
St. Lucia	2018	399	394	..	..	..	5	..
	2019	408	401	..	..	..	7	..
	2020	372	365	..	..	..	7	..
	2021	390	384	..	..	..	6	..

Table 33

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
82	82	..	..	1,054	1,043	..	..	11
30	30	..	..	1,105	1,094	..	..	11
24	24	..	..	1,112	1,100	..	..	12
19	19	..	..	1,119	1,106	..	..	13
21	21	..	..	1,027	827	197	..	3
22	22	..	..	1,042	865	174	..	3
21	21	..	..	1,008	861	144	..	3
21	21	..	..	1,012	875	134	..	3
1,647	1,647	..	..	7,982	2,606	3,158	..	2,219
1,991	1,931	0	60	8,595	3,935	2,430	..	2,230
1,744	1,675	0	69	8,315	3,556	2,701	..	2,058
2,183	2,114	0	69	8,774	2,826	3,765	..	2,183
1,841	1,493	..	348	2,561	2,382	179	..	..
1,549	1,187	..	362	2,916	2,761	155	..	..
*964	*560	..	404	3,975	3,839	136	..	..
*1,019	*623	..	396	3,686	3,547	139	..	..
64,650	52,966	905	10,779	292,942	226,758	31,621	13,675	20,888
60,545	47,129	789	12,627	284,294	220,287	22,927	11,190	29,890
66,737	53,611	808	12,318	250,943	191,853	26,009	11,262	21,819
60,080	46,403	783	12,894	319,616	248,122	32,086	11,923	27,485
..	..	..	..	14	14	..	..	..
..	..	..	..	14	14	..	..	0
..	..	..	..	14	14	..	..	0
..	..	..	..	16	14	..	..	2
735	735	0	..	3,901	1,864	411	..	1,626
889	888	..	1	3,686	1,927	227	..	1,533
778	775	..	3	3,013	1,098	574	..	1,340
942	939	..	3	3,271	1,259	599	..	1,414
335	102	210	24	11,130	2,454	7,855	..	821
239	110	100	29	12,812	6,696	5,096	..	1,019
294	113	152	29	12,655	4,405	7,349	..	901
428	118	283	27	13,769	4,312	8,342	..	1,115
..	..	..	..	59,212	2	59,211	..	..
..	..	..	..	49,448	2	49,446	..	..
..	..	..	..	46,373	2	46,371	..	..
..	..	..	..	40,576	2	40,574	..	..
2,615	1,821	748	46	52,368	20,125	29,989	..	2,253
2,574	1,827	693	54	54,464	21,261	30,769	..	2,434
2,130	1,454	615	61	50,673	18,169	29,895	..	2,608
2,351	1,668	622	*62	54,485	20,593	31,268	..	2,623
220	220	..	..	17,233	17,006	38	..	189
*230	*230	..	..	18,656	18,214	41	..	401
*232	*232	..	..	18,542	18,089	51	..	402
*233	*233	..	..	18,951	18,472	40	..	439
..	..	..	..	*291	*291	..	..	..
..	..	..	..	*296	*296	..	..	..
..	..	..	..	265	265	..	..	..
..	..	..	..	*286	*286	..	..	..
*1	*1	..	..	*229	*220	..	..	9
*1	*1	..	..	*232	*223	..	..	9
*1	*1	..	..	*220	*209	..	..	10
*1	*1	..	..	*218	*207	..	..	10
..	..	..	..	399	394	..	..	5
..	..	..	..	408	401	..	..	7
..	..	..	..	372	365	..	..	7
..	..	..	..	390	384	..	..	6

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
St. Vincent-Grenadines	2018	151	125	24	..	..	2	..
	2019	154	130	22	..	..	3	..
	2020	152	125	22	..	..	5	..
	2021	145	122	19	..	..	4	..
Suriname	2018	1,792	782	1,000	..	..	10	..
	2019	1,868	906	952	..	..	10	..
	2020	1,730	1,043	674	..	..	12	..
	2021	1,594	734	847	..	..	13	..
Trinidad and Tobago	2018	9,225	9,220	..	..	0	5	..
	2019	9,188	9,183	..	..	0	5	..
	2020	9,225	9,220	..	..	0	5	..
	2021	9,262	9,256	..	..	0	6	..
Turks and Caicos Islands	2018	*258	*257	..	..	..	1	..
	2019	*261	*260	..	..	..	1	..
	2020	*256	*255	..	..	..	1	..
	2021	*267	*263	..	..	..	4	..
United States Virgin Is.	2018	625	596	..	..	0	28	..
	2019	637	605	..	..	0	*32	..
	2020	666	635	..	..	0	*32	..
	2021	710	675	..	..	0	*34	..
Uruguay	2018	14,623	2,921	6,557	..	4,732	414	..
	2019	16,090	2,806	8,108	..	4,752	424	..
	2020	13,557	3,526	4,094	..	5,476	462	..
	2021	15,953	5,206	5,273	..	4,991	483	..
Venezuela (Bolivar. Rep.)	2018	94,248	28,917	65,282	..	*43	5	*1
	2019	79,676	16,819	62,789	..	60	6	*1
	2020	82,471	15,254	67,190	..	20	6	*1
	2021	84,730	16,858	67,845	..	19	6	*2
Northern America	2018	5,115,745	3,047,421	703,389	942,060	309,302	89,293	24,279
	2019	5,045,733	2,951,806	692,823	944,527	331,073	101,895	23,609
	2020	4,912,709	2,770,396	695,260	921,345	377,579	124,121	24,008
	2021	5,018,865	2,858,173	657,396	904,180	417,567	157,369	24,180
Bermuda	2018	644	642	..	..	..	*2	..
	2019	613	611	..	..	..	*2	..
	2020	*590	*588	..	..	..	*2	..
	2021	*595	*593	..	..	..	*2	..
Canada	2018	659,061	134,555	385,967	100,731	33,468	4,107	233
	2019	652,776	132,277	381,843	101,197	32,873	4,415	171
	2020	651,458	125,783	386,617	98,195	35,761	4,790	312
	2021	642,974	126,266	382,867	92,629	34,753	6,043	416
Greenland	2018	550	*132	418	..	..	..	..
	2019	531	*122	409	..	..	..	..
	2020	566	*136	431	..	..	..	..
	2021	569	*137	433	..	..	..	..
St. Pierre-Miquelon	2018	51	51	..	..	..	..	..
	2019	52	52	..	..	..	..	..
	2020	51	51	..	..	..	..	..
	2021	51	51	..	..	..	..	..
United States	2018	4,455,439	2,912,041	317,004	841,329	275,834	85,184	24,046
	2019	4,391,761	2,818,743	310,571	843,330	298,200	97,478	23,438
	2020	4,260,044	2,643,838	308,213	823,150	341,818	119,329	23,696
	2021	4,374,676	2,731,127	274,096	811,551	382,814	151,324	23,764
Oceania	2018	318,311	237,887	44,203	..	17,286	10,267	8,668
	2019	322,011	234,228	43,722	..	20,036	15,293	8,732
	2020	321,870	227,246	41,567	..	22,760	21,551	8,746
	2021	322,540	216,201	41,873	..	27,227	28,321	8,918

Table 33

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
1	..	..	1	150	125	24	..	1
1	..	..	1	153	130	22	..	2
1	..	..	1	151	125	22	..	4
*1	..	..	*1	144	122	19	..	2
1,440	440	1,000	..	352	342	..	..	10
1,471	519	952	..	397	387	..	..	10
1,246	572	674	..	484	471	..	..	12
1,322	475	847	..	272	259	..	..	13
76	76	..	..	9,149	9,144	..	..	5
76	76	..	..	9,112	9,108	..	..	5
76	76	..	..	9,149	9,144	..	..	5
76	76	..	..	9,185	9,180	..	..	6
..	..	..	..	*258	*257	..	..	1
..	..	..	..	*261	*260	..	..	1
..	..	..	..	*256	*255	..	..	1
..	..	..	..	*267	*263	..	..	4
*14	..	..	*14	611	596	..	..	15
*17	..	..	*17	620	605	..	..	15
*17	..	..	*17	649	635	..	..	14
*17	..	..	*17	693	675	..	..	17
1,767	1,744	..	23	12,857	1,177	6,557	..	5,123
1,702	1,668	..	34	14,388	1,138	8,108	..	5,142
1,733	1,693	..	40	11,825	1,833	4,094	..	5,898
1,768	1,723	..	46	14,185	3,483	5,273	..	5,429
1,823	1,818	..	4	92,426	27,099	65,282	..	*45
1,556	1,552	..	4	78,120	15,267	62,789	..	63
854	849	..	4	81,618	14,405	67,190	..	23
854	849	..	4	83,876	16,009	67,845	..	22
255,648	196,667	30,970	28,011	4,860,097	2,850,755	672,419	942,060	394,864
260,668	198,170	30,115	32,384	4,785,065	2,753,636	662,708	944,527	424,193
261,037	194,514	29,010	37,514	4,651,672	2,575,882	666,251	921,345	488,194
254,861	190,015	22,133	42,713	4,764,004	2,668,158	635,263	904,180	556,402
*15	*13	..	*2	629	629	..	..	..
*15	*13	..	*2	598	598	..	..	..
*15	*13	..	*2	*575	*575	..	..	..
*15	*13	..	*2	*580	*580	..	..	..
62,362	30,675	29,553	2,134	596,699	103,880	356,414	100,731	35,674
61,156	29,908	28,876	2,372	591,620	102,369	352,967	101,197	35,087
60,944	30,585	27,778	2,581	590,514	95,198	358,839	98,195	38,282
53,680	30,193	20,915	2,572	589,294	96,073	361,952	92,629	38,640
..	..	..	..	550	*132	418	..	..
..	..	..	..	531	*122	409	..	..
..	..	..	..	566	*136	431	..	..
..	..	..	..	569	*137	433	..	..
..	..	..	..	51	51	..	..	..
..	..	..	..	52	52	..	..	..
..	..	..	..	51	51	..	..	..
..	..	..	..	51	51	..	..	..
193,271	165,979	1,417	25,875	4,262,168	2,746,063	315,587	841,329	359,190
199,497	168,249	1,239	30,010	4,192,264	2,650,495	309,332	843,330	389,106
200,078	163,916	1,232	34,931	4,059,965	2,479,922	306,981	823,150	449,912
201,166	159,809	1,218	40,139	4,173,511	2,571,318	272,878	811,551	517,762
38,591	28,715	213	9,663	279,721	209,172	43,990	..	26,558
43,691	30,475	213	13,003	278,320	203,753	43,509	..	31,058
45,968	30,744	204	15,019	275,903	196,501	41,363	..	38,038
49,959	30,358	254	19,347	272,582	185,843	41,619	..	45,119

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
American Samoa	2018	*168	*163	..	..	..	5	..
	2019	*169	*164	..	..	..	*5	..
	2020	*171	*166	..	..	..	*5	..
	2021	*172	*167	..	..	..	*5	..
Australia	2018	260,999	219,884	16,021	..	15,164	9,930	0
	2019	264,025	215,498	15,967	..	17,712	14,848	..
	2020	265,178	208,599	15,150	..	20,396	21,033	..
	2021	265,554	198,102	15,200	..	24,535	27,717	..
Cook Islands	2018	42	32	..	..	..	10	..
	2019	39	29	..	..	..	10	..
	2020	34	26	..	..	..	8	..
	2021	34	27	..	..	..	7	..
Fiji	2018	1,045	464	567	..	3	12	..
	2019	1,074	498	559	..	3	13	..
	2020	989	417	558	..	1	*13	..
	2021	949	389	548	..	0	12	..
French Polynesia	2018	680	475	164	..	0	40	..
	2019	695	494	159	..	0	43	..
	2020	668	464	159	..	0	44	..
	2021	672	482	142	..	0	47	..
Guam	2018	1,715	1,646	..	..	1	68	..
	2019	1,724	1,655	..	..	1	68	..
	2020	1,683	1,614	..	..	1	68	..
	2021	*1,712	*1,643	..	..	*1	*68	..
Kiribati	2018	35	30	..	..	..	5	..
	2019	38	33	..	..	..	5	..
	2020	*37	*32	..	..	..	*5	..
	2021	*38	*33	..	..	..	*5	..
Marshall Islands	2018	*85	*83	..	..	..	2	..
	2019	82	80	..	..	..	2	..
	2020	*82	*80	..	..	..	2	..
	2021	*82	*80	..	..	..	2	..
Micronesia (Fed. States of)	2018	*70	*65	1	..	*1	3	..
	2019	*70	*65	1	..	*1	3	..
	2020	*70	*65	*1	..	*1	*3	..
	2021	*70	*64	*1	..	*1	*3	..
Nauru	2018	36	35	..	..	..	1	..
	2019	36	35	..	..	..	1	..
	2020	38	36	..	..	..	2	..
	2021	*44	*41	..	..	..	*3	..
New Caledonia	2018	3,486	3,077	317	..	45	47	..
	2019	3,334	2,876	285	..	57	116	..
	2020	3,233	2,729	305	..	49	150	..
	2021	2,910	2,256	425	..	41	188	..
New Zealand	2018	44,695	8,029	26,252	..	2,068	100	8,246
	2019	45,147	8,859	25,596	..	2,255	128	8,310
	2020	44,530	9,454	24,266	..	2,305	160	8,346
	2021	44,610	9,035	24,232	..	2,642	207	8,493
Niue	2018	*4	*3	..	..	..	0	..
	2019	*4	*3	..	..	..	0	..
	2020	*4	*3	..	..	..	0	..
	2021	*4	*3	..	..	..	0	..
Northern Mariana Islands	2018	*390	*390	..	..	..	..	..
	2019	*392	*392	..	..	..	..	..
	2020	*293	*290	..	..	..	*3	..
	2021	*305	*300	..	..	..	*5	..

Table 33

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	*168	*163	..	..	5
..	..	..	..	*169	*164	..	..	*5
..	..	..	..	*171	*166	..	..	*5
..	..	..	..	*172	*167	..	..	*5
31,974	22,969	..	9,005	229,025	196,915	16,021	..	16,089
36,981	24,671	..	12,310	227,044	190,827	15,967	..	20,250
39,762	25,450	..	14,312	225,417	183,150	15,150	..	27,117
43,799	25,254	..	18,545	221,756	172,849	15,200	..	33,707
..	..	..	..	42	32	..	..	10
..	..	..	..	39	29	..	..	10
..	..	..	..	34	26	..	..	8
..	..	..	..	34	27	..	..	7
40	40	..	..	1,005	424	567	..	15
49	49	..	..	1,025	450	559	..	16
67	67	..	..	922	350	558	..	*14
61	61	..	..	888	328	548	..	12
..	..	..	..	680	475	164	..	40
..	..	..	..	695	494	159	..	43
..	..	..	..	668	464	159	..	44
..	..	..	..	672	482	142	..	47
*16	..	..	*16	1,698	1,646	..	..	52
*16	..	..	*16	1,707	1,655	..	..	52
*16	..	..	*16	1,667	1,614	..	..	52
*16	..	..	*16	*1,695	*1,643	..	..	*52
*2	*2	..	..	33	28	..	..	5
*2	*2	..	..	35	30	..	..	5
*2	*2	..	..	*35	*30	..	..	*5
*2	*2	..	..	*36	*31	..	..	*5
..	..	..	..	*85	*83	..	..	2
..	..	..	..	82	80	..	..	2
..	..	..	..	*82	*80	..	..	2
..	..	..	..	*82	*80	..	..	2
..	..	..	..	*70	*65	1	..	4
..	..	..	..	*70	*65	1	..	4
..	..	..	..	*70	*65	*1	..	*4
..	..	..	..	*70	*64	*1	..	*4
..	..	..	..	36	35	..	..	1
..	..	..	..	36	35	..	..	1
..	..	..	..	38	36	..	..	2
..	..	..	..	*44	*41	..	..	*3
2,077	2,068	..	9	1,409	1,009	317	..	83
2,008	1,989	..	19	1,325	887	285	..	154
1,943	1,913	..	30	1,290	815	305	..	169
1,578	1,524	..	53	1,332	732	425	..	175
1,512	1,298	4	210	43,183	6,731	26,248	..	10,204
1,636	1,397	4	236	43,511	7,462	25,592	..	10,457
1,561	1,296	4	261	42,969	8,158	24,262	..	10,549
1,689	1,378	4	307	42,921	7,657	24,228	..	11,035
..	..	..	..	*4	*3	..	..	0
..	..	..	..	*4	*3	..	..	0
..	..	..	..	*4	*3	..	..	0
..	..	..	..	*4	*3	..	..	0
..	..	..	..	*390	*390	..	..	..
..	..	..	..	*392	*392	..	..	..
..	..	..	..	*293	*290	..	..	*3
..	..	..	..	*305	*300	..	..	*5

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Palau	2018	*96	*92	..	..	..	*4	..
	2019	97	91	..	..	..	*6	..
	2020	*98	*92	..	..	..	*6	..
	2021	98	92	..	..	..	*6	..
Papua New Guinea	2018	*4,333	*3,079	830	..	..	2	422
	2019	*4,625	*3,104	1,095	..	..	4	422
	2020	4,300	*2,819	1,077	..	..	5	400
	2021	*4,824	*3,134	1,260	..	..	5	*425
Samoa	2018	154	89	43	..	0	21	..
	2019	169	96	50	..	0	24	..
	2020	172	107	41	..	0	24	..
	2021	171	94	55	..	0	21	..
Solomon Islands	2018	104	100	1	..	..	3	..
	2019	107	103	1	..	..	3	..
	2020	106	102	1	..	..	3	..
	2021	106	102	1	..	..	3	..
Tonga	2018	66	62	..	..	0	4	..
	2019	71	64	..	..	0	6	..
	2020	73	64	..	..	3	7	..
	2021	75	66	..	..	2	6	..
Tuvalu	2018	9	7	..	..	..	2	..
	2019	9	7	..	..	..	2	..
	2020	9	7	..	..	..	2	..
	2021	9	7	..	..	..	2	..
Vanuatu	2018	81	63	8	..	4	6	..
	2019	84	63	8	..	6	7	..
	2020	78	57	8	..	6	*7	..
	2021	79	59	8	..	4	*7	..
Wallis and Futuna Is.	2018	*20	*20	0	..	..	0	..
	2019	*21	*20	0	..	..	0	..
	2020	*23	*22	0	..	..	0	..
	2021	*24	*23	0	..	..	0	..

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
*10	*10	..	..	*86	*82	..	..	*4
*12	*12	..	..	85	79	..	..	*6
*12	*12	..	..	*86	*80	..	..	*6
*12	*12	..	..	86	80	..	..	*6
*2,957	*2,326	209	422	1,376	753	621	..	2
*2,983	*2,352	209	422	1,642	752	886	..	4
*2,601	*2,001	200	400	1,700	818	877	..	5
*2,798	*2,123	*250	*425	2,026	1,011	1,010	..	5
0	..	..	0	154	89	43	..	21
0	..	..	0	169	96	50	..	24
0	..	..	0	172	107	41	..	24
0	..	..	0	171	94	55	..	22
3	3	..	..	101	97	1	..	3
3	3	..	..	104	99	1	..	3
*3	*3	..	..	103	99	1	..	3
*4	*4	..	..	103	99	1	..	3
..	..	..	..	66	62	..	..	4
..	..	..	..	71	64	..	..	6
..	..	..	..	73	64	..	..	9
..	..	..	..	75	66	..	..	9
..	..	..	..	9	7	..	..	2
..	..	..	..	9	7	..	..	2
..	..	..	..	9	7	..	..	2
..	..	..	..	9	7	..	..	2
..	..	..	..	81	63	8	..	11
..	..	..	..	84	63	8	..	13
..	..	..	..	78	57	8	..	*13
..	..	..	..	79	59	8	..	*11
..	..	..	..	*20	*20	0	..	0
..	..	..	..	*21	*20	0	..	0
..	..	..	..	*23	*22	0	..	0
..	..	..	..	*24	*23	0	..	0