

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.

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Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
World	2020	26,921,090	17,191,370	4,466,871	2,682,234	1,602,581	843,584	134,449
	2021	28,398,501	18,125,924	4,409,058	2,818,045	1,867,863	1,039,979	137,633
	2022	29,180,327	18,455,337	4,468,782	2,680,118	2,120,450	1,309,199	146,440
	2023	29,921,215	18,688,478	4,396,949	2,736,432	2,330,197	1,622,637	146,522
Africa	2020	855,142	651,870	153,449	9,903	18,557	14,741	6,621
	2021	888,766	672,732	157,574	12,355	22,455	17,052	6,598
	2022	909,473	685,035	165,560	9,803	24,565	17,439	7,070
	2023	912,032	683,302	168,128	8,127	25,728	19,193	7,553
Algeria	2020	79,155	78,432	50	..	8	665	..
	2021	85,391	84,729	9	..	11	642	..
	2022	91,231	90,550	16	..	16	649	..
	2023	95,627	94,904	23	..	14	686	..
Angola	2020	14,488	1,967	12,478	..	..	43	..
	2021	14,741	3,498	11,203	..	..	39	..
	2022	15,983	3,051	12,318	..	..	*613	..
	2023	15,701	4,081	11,220	..	..	400	..
Benin	2020	989	982	0	..	..	7	..
	2021	1,127	1,110	..	..	..	17	..
	2022	1,002	968	..	..	..	33	..
	2023	783	731	..	..	..	52	..
Botswana	2020	2,182	2,176	..	..	..	6	..
	2021	2,409	2,403	..	..	..	6	..
	2022	2,548	2,542	..	..	..	6	..
	2023	3,095	3,085	..	..	..	10	..
Burkina Faso	2020	*1,442	*1,273	112	..	..	57	..
	2021	1,672	*1,486	128	..	..	58	..
	2022	*1,532	*1,386	82	..	..	64	..
	2023	1,659	*1,410	89	..	..	159	..
Burundi	2020	276	92	176	..	..	8	..
	2021	262	124	131	..	..	*8	..
	2022	305	125	167	..	..	13	..
	2023	332	77	242	..	..	12	..
Cabo Verde	2020	454	371	..	..	69	14	..
	2021	475	382	..	..	78	15	..
	2022	544	443	..	..	78	23	..
	2023	574	468	..	..	77	29	..
Cameroon	2020	8,653	3,660	4,945	..	..	47	..
	2021	8,255	2,754	5,440	..	..	61	..
	2022	7,821	2,481	5,266	..	..	75	..
	2023	8,148	1,976	6,084	..	..	88	..
Central African Rep.	2020	141	1	140	..	..	0	..
	2021	141	1	140	..	..	0	..
	2022	155	1	154	..	..	0	..
	2023	*170	*1	*154	..	..	*15	..
Chad	2020	337	326	..	..	9	2	..
	2021	338	326	..	..	9	3	..
	2022	*338	*326	..	..	9	3	..
	2023	*338	*326	..	..	9	*3	..
Comoros	2020	*130	*130	..	..	..	..	..
	2021	*136	*132	..	..	..	*4	..
	2022	*139	*135	..	..	..	*4	..
	2023	*149	*145	..	..	..	*4	..
Congo	2020	3,265	2,364	900	1	..
	2021	3,401	2,411	989	1	..
	2022	3,572	2,453	1,119	1	..
	2023	3,482	2,263	1,219	1	..

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Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
2,241,778	1,924,833	73,151	243,794	24,679,311	15,266,537	4,393,720	2,682,234	2,336,821
2,269,934	1,905,185	74,461	290,289	26,128,567	16,220,739	4,334,597	2,818,045	2,755,186
2,372,639	1,956,322	74,087	342,230	26,807,688	16,499,015	4,394,695	2,680,118	3,233,859
2,478,988	1,989,436	81,810	407,743	27,442,227	16,699,042	4,315,139	2,736,432	3,691,614
78,666	63,540	873	14,253	776,477	588,330	152,576	9,903	25,667
65,353	47,255	1,024	17,074	823,413	625,477	156,550	12,355	29,031
79,803	60,470	1,122	18,210	829,670	624,565	164,438	9,803	30,864
80,388	60,348	1,228	18,812	831,644	622,954	166,900	8,127	33,663
5,317	5,317	..	..	73,838	73,115	50	..	673
5,488	5,488	..	..	79,903	79,241	9	..	653
5,477	5,477	..	..	85,754	85,073	16	..	665
5,630	5,630	..	..	89,997	89,274	23	..	700
395	395	..	..	14,093	1,572	12,478	..	43
*400	*400	..	..	14,341	3,098	11,203	..	39
*400	*400	..	..	15,583	2,651	12,318	..	*613
768	768	..	..	14,933	3,313	11,220	..	400
166	165	..	1	823	817	0	..	6
195	193	..	1	932	917	..	..	15
215	214	..	2	786	755	..	..	31
158	155	..	3	626	576	..	..	49
1	..	..	1	2,181	2,176	..	..	5
1	..	..	1	2,408	2,403	..	..	5
1	..	..	1	2,547	2,542	..	..	5
1	..	..	1	3,094	3,085	..	..	9
*870	*870	..	..	572	403	112	..	57
*800	*800	..	..	872	686	128	..	58
*820	*820	..	..	712	566	82	..	64
*722	*722	..	..	937	688	89	..	159
6	6	..	..	270	87	176	..	8
*6	*6	..	..	257	118	131	..	*8
17	17	..	..	288	108	167	..	13
16	16	..	..	316	61	242	..	12
*1	*1	..	..	453	370	..	..	83
*1	*1	..	..	474	381	..	..	93
*1	*1	..	..	543	443	..	..	100
*1	*1	..	..	573	467	..	..	105
3,480	3,478	..	2	5,173	182	4,945	..	45
2,659	2,656	..	3	5,596	98	5,440	..	58
2,386	2,383	..	3	5,436	98	5,266	..	72
1,905	1,901	..	3	6,243	74	6,084	..	85
..	..	..	..	141	1	140	..	0
..	..	..	..	141	1	140	..	0
..	..	..	..	155	1	154	..	0
..	..	..	..	*170	*1	*154	..	*15
1	..	..	1	336	326	..	..	10
2	..	..	2	336	326	..	..	10
2	..	..	2	*336	*326	..	..	10
*2	..	..	*2	*336	*326	..	..	10
..	..	..	..	*130	*130	..	..	..
..	..	..	..	*136	*132	..	..	*4
..	..	..	..	*139	*135	..	..	*4
..	..	..	..	*149	*145	..	..	*4
37	37	3,228	2,327	900	..	1
38	38	3,363	2,373	989	..	1
40	40	3,533	2,413	1,119	..	1
47	47	3,435	2,216	1,219	..	1

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Country or area	Year	Total producers						Other
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	
Côte d'Ivoire	2020	11,283	7,887	3,376	..	..	20	..
	2021	11,589	8,935	2,626	..	..	28	..
	2022	12,326	9,456	2,846	..	..	24	..
	2023	13,596	10,359	3,200	..	..	38	..
Dem. Rep. of the Congo	2020	12,460	7	12,453	..	..	0	..
	2021	13,135	3	13,131	..	..	1	..
	2022	13,200	6	13,192	..	..	2	..
	2023	13,322	7	13,313	..	..	3	..
Djibouti	2020	102	102	..	..	..	1	..
	2021	196	126	..	..	69	1	..
	2022	151	81	..	..	69	*1	..
	2023	244	131	..	..	*112	*1	..
Egypt	2020	197,201	173,500	15,038	..	4,233	4,430	..
	2021	204,637	179,666	14,769	..	5,257	4,945	..
	2022	214,050	188,867	14,646	..	5,784	4,753	..
	2023	216,251	190,152	15,458	..	5,665	4,977	..
Equatorial Guinea	2020	1,082	593	489	..	..	..	..
	2021	1,077	607	470	..	..	..	..
	2022	1,090	619	471	..	..	..	..
	2023	1,008	660	348	..	..	..	..
Eritrea	2020	412	361	..	..	2	50	..
	2021	439	388	..	..	2	48	..
	2022	461	411	..	..	2	48	..
	2023	485	436	..	..	2	48	..
Eswatini	2020	543	310	233	..	..	0	..
	2021	652	369	270	..	..	13	..
	2022	653	333	295	..	..	25	..
	2023	708	323	360	..	..	25	..
Ethiopia	2020	15,823	30	14,943	..	818	32	..
	2021	15,503	26	14,882	..	561	34	..
	2022	17,346	10	16,771	..	529	36	..
	2023	20,526	10	19,797	..	685	34	..
Gabon	2020	3,013	1,507	1,507	..	..	0	..
	2021	3,116	1,595	1,520	..	..	1	..
	2022	3,300	2,037	1,260	..	..	3	..
	2023	3,139	1,685	1,451	..	..	3	..
Gambia	2020	485	478	..	..	2	4	..
	2021	516	510	..	..	2	4	..
	2022	592	586	..	..	*2	*4	..
	2023	686	679	..	..	2	*4	..
Ghana	2020	20,171	12,821	7,293	..	..	57	..
	2021	22,051	14,408	7,521	..	..	122	..
	2022	23,163	14,810	8,192	..	..	162	..
	2023	24,264	14,930	9,187	..	..	148	..
Guinea	2020	2,420	935	1,484	..	..	..	..
	2021	3,036	401	2,635	..	..	..	..
	2022	3,263	325	2,938	..	..	..	..
	2023	*3,260	*310	*2,950	..	..	..	..
Guinea-Bissau	2020	*184	*171	..	..	..	13	..
	2021	*202	*188	..	..	..	14	..
	2022	*196	*181	..	..	..	15	..
	2023	*196	*180	..	..	..	*16	..
Kenya	2020	11,604	891	4,233	..	1,331	88	5,060
	2021	12,377	1,512	3,675	..	1,985	167	5,037
	2022	12,962	1,849	3,068	..	2,143	384	5,518
	2023	12,703	1,505	2,667	..	2,008	492	6,032

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Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
81	72	..	9	11,202	7,815	3,376	..	11
147	137	..	11	11,442	8,798	2,626	..	18
179	167	..	12	12,147	9,289	2,846	..	12
246	232	..	14	13,350	10,126	3,200	..	24
..	..	..	..	12,460	7	12,453	..	0
..	..	..	..	13,135	3	13,131	..	1
..	..	..	..	13,200	6	13,192	..	2
..	..	..	..	13,322	7	13,313	..	3
1	..	..	1	102	102	..	..	..
1	..	..	1	196	126	..	..	69
*1	..	..	*1	150	81	..	..	69
*1	..	..	*1	243	131	..	..	*112
11,408	11,408	..	..	185,793	162,092	15,038	..	8,663
11,188	11,188	..	..	193,449	168,478	14,769	..	10,202
8,890	8,890	..	..	205,160	179,977	14,646	..	10,537
5,574	5,574	..	..	210,677	184,578	15,458	..	10,641
..	..	..	..	1,082	593	489	..	..
..	..	..	..	1,077	607	470	..	..
..	..	..	..	1,090	619	471	..	..
..	..	..	..	1,008	660	348	..	..
36	19	..	17	376	342	..	..	34
35	19	..	16	403	369	..	..	34
35	20	..	15	425	391	..	..	34
36	21	..	15	449	415	..	..	34
316	310	6	0	227	..	227	..	0
380	369	6	6	272	..	264	..	8
344	333	6	5	309	..	289	..	21
334	323	8	3	373	..	352	..	21
62	30	..	32	15,761	0	14,943	..	818
57	23	..	34	15,446	2	14,882	..	561
43	8	..	36	17,303	2	16,771	..	529
42	8	..	34	20,484	2	19,797	..	685
198	193	6	0	2,815	1,314	1,501	..	..
207	201	6	1	2,909	1,395	1,515	..	..
523	517	6	1	2,776	1,520	1,254	..	2
217	210	6	1	2,922	1,474	1,445	..	2
*38	*38	..	..	447	440	..	..	6
*38	*38	..	..	478	472	..	..	6
*38	*38	..	..	554	548	..	..	*6
*40	*40	..	..	646	639	..	..	*6
0	0	..	..	20,170	12,820	7,293	..	57
0	0	..	..	22,051	14,408	7,521	..	122
0	0	..	..	23,163	14,810	8,192	..	162
1	1	..	..	24,264	14,930	9,187	..	148
..	..	..	..	2,420	935	1,484	..	..
..	..	..	..	3,036	401	2,635	..	..
..	..	..	..	3,263	325	2,938	..	..
..	..	..	..	*3,260	*310	*2,950	..	..
*19	*19	..	..	*165	*152	..	..	13
*19	*19	..	..	*183	*169	..	..	14
*19	*19	..	..	*177	*162	..	..	15
*19	*19	..	..	*177	*161	..	..	*16
137	137	..	..	11,467	755	4,233	..	6,480
274	250	24	..	12,103	1,262	3,651	..	7,189
292	264	28	..	12,670	1,585	3,040	..	8,045
226	199	27	..	12,477	1,306	2,640	..	8,532

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Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Lesotho	2020	427	1	426	..	..	..	..
	2021	533	1	531	..	..	1	..
	2022	482	1	480	..	..	1	..
	2023	509	1	471	..	..	37	..
Liberia	2020	*296	*168	*124	..	..	*4	..
	2021	303	74	223	..	..	*5	..
	2022	381	*148	228	..	..	*5	..
	2023	460	*131	324	..	..	*5	..
Libya	2020	29,499	29,491	..	..	..	8	..
	2021	34,786	34,777	..	..	..	9	..
	2022	35,106	35,097	..	..	..	10	..
	2023	33,747	33,737	..	..	..	10	..
Madagascar	2020	2,167	1,317	818	..	0	32	..
	2021	2,245	1,441	767	..	0	36	..
	2022	2,274	1,398	822	..	*1	53	..
	2023	2,299	1,259	983	..	*1	57	..
Malawi	2020	2,191	324	1,867	..	..	0	..
	2021	2,401	167	2,194	..	..	40	..
	2022	2,115	193	1,757	..	..	165	..
	2023	*2,060	*190	*1,700	..	..	*170	..
Mali	2020	3,728	*2,191	1,444	..	..	93	..
	2021	*3,969	*2,381	*1,473	..	..	115	..
	2022	*4,209	*2,296	1,787	..	..	125	..
	2023	*4,295	*2,342	*1,823	..	..	130	..
Mauritania	2020	1,461	1,178	..	..	138	145	..
	2021	1,525	1,241	..	..	*139	*145	..
	2022	1,496	1,263	..	..	114	119	..
	2023	1,440	1,198	..	..	*119	*123	..
Mauritius	2020	2,883	2,603	116	..	18	146	..
	2021	2,992	2,719	107	..	15	151	..
	2022	3,119	2,821	128	..	16	155	..
	2023	3,265	3,014	94	..	9	149	..
Morocco	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
	2022	42,723	33,937	679	..	5,356	1,448	1,302
	2023	43,711	33,237	516	..	6,546	2,111	1,302
Mozambique	2020	19,148	3,399	15,703	..	..	46	..
	2021	18,996	3,460	15,466	..	..	69	..
	2022	19,627	3,384	16,173	..	..	70	..
	2023	19,781	3,363	16,351	..	..	67	..
Namibia	2020	2,039	65	1,505	..	22	*447	..
	2021	1,494	41	968	..	22	*463	..
	2022	1,207	20	781	..	23	383	..
	2023	1,811	36	1,323	..	23	428	..
Niger	2020	635	610	..	..	..	24	..
	2021	*636	*612	..	..	..	24	..
	2022	*669	*644	..	..	..	24	..
	2023	1,110	1,066	..	..	..	44	..
Nigeria	2020	39,557	31,184	8,292	..	*3	78	..
	2021	36,038	28,046	7,943	..	..	49	..
	2022	38,866	29,511	9,204	..	..	151	..
	2023	40,960	31,641	9,107	..	..	212	..
Rwanda	2020	925	330	577	18	..
	2021	1,038	494	526	18	..
	2022	1,116	529	569	18	..
	2023	1,231	553	660	18	..

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Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	427	1	426	..	..
..	..	..	..	533	1	531	..	1
..	..	..	..	482	1	480	..	1
..	..	..	..	509	1	471	..	37
*54	*50	..	*4	*242	*118	*124	..	..
*30	*25	..	*5	273	49	223	..	0
*105	*100	..	*5	276	48	228	..	0
*105	*100	..	*5	355	31	324	..	0
..	..	..	..	29,499	29,491	..	..	8
..	..	..	..	34,786	34,777	..	..	9
..	..	..	..	35,106	35,097	..	..	10
..	..	..	..	33,747	33,737	..	..	10
*298	*298	..	..	1,869	1,018	818	..	32
*334	*334	..	..	1,911	1,107	767	..	36
*340	*340	..	..	1,934	1,058	822	..	54
*345	*345	..	..	1,954	914	983	..	58
130	125	*5	..	2,061	199	1,862	..	0
130	125	*5	..	2,271	42	2,189	..	40
130	125	*5	..	1,985	68	1,752	..	165
*130	*125	*5	..	*1,930	*65	*1,695	..	*170
*1,133	*1,101	..	32	2,595	1,090	1,444	..	61
*1,163	*1,131	..	*32	*2,806	*1,250	*1,473	..	83
*1,348	*1,285	..	63	2,860	*1,011	1,787	..	62
*1,374	*1,311	..	63	*2,920	*1,031	*1,823	..	66
379	368	..	12	1,081	810	..	..	271
384	370	..	14	1,141	871	..	..	*270
329	317	..	12	1,167	946	..	..	221
*393	*380	..	*13	1,047	818	..	..	*229
1,682	1,521	..	161	1,201	1,082	116	..	3
1,766	1,604	..	162	1,226	1,114	107	..	5
1,428	1,267	..	161	1,691	1,554	128	..	9
1,550	1,405	..	145	1,715	1,609	94	..	12
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
1,631	264	..	1,366	41,092	33,673	679	..	6,740
1,570	203	..	1,367	42,141	33,034	516	..	8,592
210	210	..	..	18,938	3,189	15,703	..	46
210	210	..	..	18,785	3,250	15,466	..	69
225	225	..	..	19,403	3,159	16,173	..	70
153	153	..	..	19,628	3,210	16,351	..	67
27	..	..	27	2,012	65	1,505	..	*442
27	..	..	27	1,467	41	968	..	*458
27	..	..	27	1,180	20	781	..	379
27	..	..	27	1,784	36	1,323	..	424
157	145	..	13	477	465	..	..	12
*74	*62	..	12	*562	*550	..	..	12
*116	*103	..	13	*552	*541	..	..	11
162	150	..	13	948	916	..	..	32
21,833	21,586	169	79	17,724	9,599	8,123	..	2
6,339	6,129	162	49	29,698	21,917	7,781	..	..
23,054	22,730	187	136	15,812	6,781	9,017	..	14
25,686	25,318	185	182	15,273	6,322	8,922	..	29
*2	*2	923	328	577	..	18
*2	*2	1,036	492	526	..	18
*2	*2	1,114	527	569	..	18
*2	*2	1,229	551	660	..	18

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Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Sao Tome and Principe	2020	*110	*105	5	..	..	0	..
	2021	*106	*101	5	..	..	0	..
	2022	*110	*108	2	..	..	*1	..
	2023	*117	*110	*6	..	..	*1	..
Senegal	2020	5,804	5,159	..	..	217	385	43
	2021	6,380	5,392	..	..	400	552	36
	2022	7,550	6,524	..	..	396	594	36
	2023	7,908	6,908	..	..	382	582	36
Seychelles	2020	535	523	..	..	6	6	..
	2021	536	517	..	..	5	14	..
	2022	550	527	..	..	7	17	..
	2023	569	545	..	..	6	17	..
Sierra Leone	2020	422	*180	236	..	..	6	..
	2021	467	*224	237	..	..	6	..
	2022	495	270	216	..	..	*9	..
	2023	493	251	231	..	..	*11	..
Somalia	2020	520	490	..	..	6	24	..
	2021	534	491	..	..	6	37	..
	2022	*566	*494	..	..	*6	66	..
	2023	*598	*520	..	..	*6	72	..
South Africa	2020	239,521	211,067	6,246	9,903	6,611	5,694	..
	2021	244,381	210,233	6,784	12,355	8,356	6,653	..
	2022	234,850	201,891	7,245	9,803	9,689	6,222	..
	2023	*223,049	*192,140	6,395	8,127	*9,720	6,667	..
South Sudan	2020	558	547	..	..	..	11	..
	2021	566	549	..	..	..	17	..
	2022	538	503	..	..	..	35	..
	2023	719	691	..	..	..	*28	..
St. Helena and Depend.	2020	11	8	..	..	2	1	..
	2021	11	9	..	..	1	1	..
	2022	10	9	..	..	1	1	..
	2023	11	9	..	..	1	1	..
Sudan	2020	17,648	6,613	11,008	..	..	28	..
	2021	*16,781	*6,693	*10,061	..	..	28	..
	2022	16,771	4,842	11,804	..	..	126	..
	2023	*14,387	*3,043	*11,218	..	..	126	..
Togo	2020	624	542	75	..	..	8	..
	2021	618	482	86	..	..	51	..
	2022	821	651	78	..	..	91	..
	2023	719	527	92	..	..	100	..
Tunisia	2020	21,449	20,572	46	..	465	150	216
	2021	21,890	20,999	28	..	425	215	223
	2022	21,422	20,552	15	..	322	319	214
	2023	21,459	20,441	9	..	338	487	183
Uganda	2020	4,447	246	4,083	..	..	118	..
	2021	*4,769	334	*4,334	..	..	101	..
	2022	5,520	438	4,983	..	..	99	..
	2023	6,032	299	5,634	..	..	99	..
United Rep. of Tanzania	2020	8,276	5,103	3,139	..	*4	30	..
	2021	9,164	6,039	3,086	..	*4	34	..
	2022	10,159	7,298	2,821	..	*4	36	..
	2023	10,581	7,842	2,699	..	*4	35	..
Zambia	2020	15,237	2,294	12,793	..	..	150	..
	2021	17,718	1,498	16,073	..	..	148	..
	2022	19,783	2,551	17,089	..	..	143	..
	2023	19,448	2,210	17,091	..	..	147	..

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	*105	5	..	0
..	..	..	..	*106	*101	5	..	0
..	..	..	..	*110	*108	2	..	*1
..	..	..	..	*117	*110	*6	..	*1
675	631	..	43	5,130	4,528	..	..	602
794	745	..	49	5,586	4,647	..	..	939
840	791	..	49	6,709	5,733	..	..	976
690	641	..	49	7,219	6,267	..	..	951
*99	*93	..	6	436	430	..	..	6
*100	*93	..	7	436	424	..	..	12
*101	*93	..	8	450	434	..	..	15
*102	*93	..	9	467	452	..	..	15
*4	*4	..	..	418	*176	236	..	6
*4	*4	..	..	463	*220	237	..	6
*5	*5	..	..	490	265	216	..	*9
8	8	..	..	485	244	231	..	*11
*120	*120	..	..	400	370	..	..	30
*110	*110	..	..	424	381	..	..	43
*110	*110	..	..	*456	*384	..	..	72
*115	*115	..	..	*483	*405	..	..	78
24,329	12,265	64	12,000	215,192	198,802	6,182	9,903	305
26,731	11,877	98	14,756	217,650	198,356	6,686	12,355	253
26,263	10,462	104	15,697	208,587	191,429	7,141	9,803	214
*27,864	11,587	*110	*16,167	*195,186	*180,554	6,285	8,127	*220
50	44	..	6	508	503	..	..	5
55	46	..	9	511	503	..	..	8
69	45	..	24	469	458	..	..	11
88	68	..	*20	631	623	..	..	9
..	..	..	..	11	8	..	..	3
..	..	..	..	11	9	..	..	2
..	..	..	..	10	9	..	..	2
..	..	..	..	11	9	..	..	1
*134	*108	..	26	17,514	6,505	11,008	..	1
*134	*107	..	26	*16,648	*6,585	*10,061	..	1
133	107	..	26	16,638	4,735	11,804	..	99
114	87	..	26	*14,274	*2,956	*11,218	..	99
10	4	..	7	614	538	75	..	1
8	2	..	6	610	480	86	..	45
8	2	..	6	812	650	78	..	84
17	2	..	15	702	525	92	..	84
1,411	1,045	..	366	20,039	19,527	46	..	465
1,500	1,074	..	426	20,391	19,925	28	..	437
1,622	1,119	..	503	19,801	19,433	15	..	353
1,893	1,294	..	599	19,566	19,147	9	..	409
812	188	624	..	3,635	58	3,459	..	118
*1,006	282	*724	..	*3,763	52	*3,610	..	101
1,217	430	787	..	4,303	*8	4,196	..	99
1,122	234	887	..	4,911	65	4,746	..	99
699	669	..	30	7,577	4,434	3,139	..	*4
813	779	..	34	8,351	5,260	3,086	..	*4
857	821	..	36	9,302	6,477	2,821	..	*4
764	729	..	35	9,817	7,113	2,699	..	*4
78	78	..	..	15,159	2,216	12,793	..	150
*83	*83	..	..	17,636	1,415	16,073	..	148
*83	*83	..	..	19,700	2,468	17,089	..	143
*85	*85	..	..	19,363	2,125	17,091	..	147

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Zimbabwe	2020	6,673	2,843	3,805	..	..	24	..
	2021	8,454	2,508	5,928	..	..	18	..
	2022	9,016	3,103	5,897	..	..	16	..
	2023	8,818	5,162	3,640	..	..	16	..
Asia	2020	14,511,587	10,699,153	2,025,727	664,988	587,823	474,169	59,727
	2021	15,552,804	11,338,636	2,006,425	751,524	798,261	593,707	64,251
	2022	16,283,503	11,700,827	2,073,999	772,966	920,247	752,153	63,311
	2023	17,097,122	12,215,987	1,969,504	829,953	1,064,603	952,372	64,702
Afghanistan	2020	1,433	186	1,181	..	..	66	..
	2021	1,396	264	1,054	..	..	78	..
	2022	1,297	241	967	..	..	90	..
	2023	1,304	172	1,013	..	..	119	..
Armenia	2020	7,839	3,166	1,778	2,756	2	137	..
	2021	7,879	3,384	2,202	1,998	1	294	..
	2022	9,190	3,879	1,940	2,846	2	524	..
	2023	8,806	3,716	1,646	2,709	2	733	..
Azerbaijan	2020	25,839	24,627	1,070	..	96	47	..
	2021	27,889	26,464	1,277	..	91	56	..
	2022	29,041	27,300	1,596	..	83	62	..
	2023	29,307	27,406	1,763	..	55	82	..
Bahrain	2020	34,769	34,752	..	..	..	17	..
	2021	35,444	35,407	..	..	0	36	..
	2022	36,954	36,879	..	..	2	73	..
	2023	38,183	38,089	..	..	2	92	..
Bangladesh	2020	85,500	84,207	875	..	6	413	..
	2021	90,847	90,026	657	..	6	158	..
	2022	94,886	93,811	746	..	6	323	..
	2023	102,641	100,928	647	..	5	1,061	..
Bhutan	2020	11,371	0	11,370	..	1	0	..
	2021	11,371	0	11,370	..	0	0	..
	2022	10,961	0	10,960	..	0	0	..
	2023	10,516	0	10,515	..	0	1	..
Brunei Darussalam	2020	5,736	5,734	..	..	..	2	..
	2021	5,700	5,695	..	..	..	4	..
	2022	5,602	5,597	..	..	..	5	..
	2023	5,611	5,606	..	..	..	6	..
Cambodia	2020	9,097	4,739	4,048	..	..	309	..
	2021	10,214	4,324	5,249	..	..	641	..
	2022	10,650	3,759	6,157	..	..	733	..
	2023	14,561	8,676	5,023	..	..	862	..
China	2020	7,779,060	5,330,248	1,355,209	366,255	466,474	260,856	18
	2021	8,534,248	5,805,868	1,338,999	407,523	656,102	325,756	..
	2022	8,848,712	5,888,795	1,352,195	417,775	762,672	427,275	..
	2023	9,456,442	6,265,740	1,285,848	434,725	885,867	584,146	116
China, Hong Kong SAR	2020	35,189	35,189	..	..	..	..	..
	2021	37,071	37,071	..	..	..	..	..
	2022	36,186	36,186	..	..	..	..	..
	2023	37,634	37,634	..	..	..	..	..
China, Macao SAR	2020	562	562	..	..	..	0	..
	2021	496	495	..	..	..	0	..
	2022	609	609	..	..	..	0	..
	2023	654	653	..	..	..	0	..
Cyprus	2020	4,849	4,313	..	..	240	296	..
	2021	5,119	4,405	..	..	246	468	..
	2022	5,268	4,442	..	..	224	602	..
	2023	5,329	4,290	..	..	208	831	..

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
109	109	..	..	6,564	2,734	3,805	..	24
0	0	..	..	8,454	2,508	5,928	..	18
35	35	..	..	8,980	3,068	5,897	..	16
45	45	..	..	8,774	5,118	3,640	..	16
1,193,128	1,076,220	9,970	106,938	13,318,459	9,622,933	2,015,757	664,988	1,014,781
1,184,853	1,052,212	13,866	118,775	14,367,951	10,286,423	1,992,559	751,524	1,337,444
1,257,314	1,115,893	11,786	129,635	15,026,189	10,584,934	2,062,213	772,966	1,606,076
1,317,282	1,161,339	15,399	140,545	15,779,840	11,054,648	1,954,105	829,953	1,941,133
*340	*6	*300	34	1,093	180	881	..	32
*335	*6	*295	*34	1,061	258	759	..	44
*330	*6	*290	*34	967	235	677	..	56
*332	*6	*292	*34	972	166	721	..	85
115	..	..	115	7,723	3,166	1,778	2,756	23
204	..	..	204	7,675	3,384	2,202	1,998	91
282	..	..	282	8,908	3,879	1,940	2,846	243
351	..	..	351	8,455	3,716	1,646	2,709	385
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
2,164	2,163	1	*1	26,876	25,137	1,595	..	144
2,171	2,169	1	*1	27,136	25,238	1,762	..	136
15,444	15,427	..	17	19,325	19,325	..	..	..
15,574	15,538	..	36	19,870	19,869	..	..	1
16,365	16,298	..	67	20,588	20,581	..	..	7
17,045	16,958	..	87	21,139	21,131	..	..	7
16,517	16,517	..	..	68,983	67,690	875	..	419
18,507	18,507	..	..	72,340	71,519	657	..	164
16,969	16,969	..	..	77,917	76,842	746	..	329
17,867	17,867	..	..	84,774	83,061	647	..	1,066
..	..	..	..	11,371	0	11,370	..	2
..	..	..	..	11,371	0	11,370	..	1
..	..	..	..	10,961	0	10,960	..	1
..	..	..	..	10,516	0	10,515	..	1
1,662	1,662	..	..	4,074	4,073	..	..	2
1,652	1,648	..	4	4,048	4,047	..	..	1
1,594	1,590	..	4	4,008	4,007	..	..	1
1,529	1,524	..	5	4,082	4,082	..	..	1
5	..	..	5	9,092	4,739	4,048	..	304
6	..	..	6	10,208	4,324	5,249	..	635
7	..	..	7	10,642	3,759	6,157	..	726
8	..	..	8	14,552	8,676	5,023	..	854
432,282	432,282	..	..	7,346,777	4,897,966	1,355,209	366,255	727,348
423,770	423,770	..	..	8,110,478	5,382,099	1,338,999	407,523	981,858
429,823	429,823	..	..	8,418,889	5,458,972	1,352,195	417,775	1,189,947
444,841	444,841	..	..	9,011,601	5,820,899	1,285,848	434,725	1,470,129
..	..	..	..	35,189	35,189	..	..	..
..	..	..	..	37,071	37,071	..	..	..
..	..	..	..	36,186	36,186	..	..	..
..	..	..	..	37,634	37,634	..	..	..
37	37	..	0	525	525	..	..	0
39	39	..	0	457	457	..	..	0
41	41	..	0	568	568	..	..	0
45	45	..	0	609	608	..	..	0
150	52	..	98	4,699	4,261	..	..	438
225	53	..	172	4,894	4,352	..	..	542
292	50	..	241	4,976	4,391	..	..	585
418	51	..	367	4,911	4,239	..	..	672

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Georgia	2020	11,160	2,821	8,248	..	91	..	..
	2021	12,645	2,380	10,182	..	83	..	..
	2022	14,247	3,388	10,771	..	88	..	..
	2023	14,396	3,446	10,863	..	86	..	..
India	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	..
	2022	1,816,815	1,423,001	162,499	45,861	*80,714	*104,740	..
	2023	1,957,317	1,550,943	143,890	47,937	93,465	121,082	..
Indonesia	2020	276,529	241,383	21,624	..	2	32	13,488
	2021	289,521	253,873	19,580	..	2	168	15,898
	2022	344,390	302,336	25,013	..	2	362	16,677
	2023	375,151	332,501	24,590	..	481	643	16,936
Iran (Islamic Rep. of)	2020	342,427	313,487	22,076	5,527	754	584	..
	2021	355,912	337,927	12,267	4,358	737	622	..
	2022	368,811	344,602	16,706	5,954	713	835	..
	2023	385,239	360,603	16,941	6,013	761	921	..
Iraq	2020	85,433	81,214	4,162	..	..	57	..
	2021	86,164	82,761	3,346	..	..	57	..
	2022	115,591	112,879	2,651	..	..	61	..
	2023	94,450	93,006	1,383	..	..	61	..
Israel	2020	72,285	67,702	..	..	204	4,163	216
	2021	73,796	68,054	..	..	178	5,351	214
	2022	75,964	69,347	..	..	317	6,084	217
	2023	76,594	67,625	..	..	530	8,211	228
Japan	2020	1,016,866	782,645	87,548	38,752	8,970	79,087	19,864
	2021	1,049,718	773,726	88,825	70,805	9,412	86,081	20,869
	2022	1,017,680	754,427	86,008	56,070	9,295	92,604	19,277
	2023	1,002,649	707,151	84,998	84,055	10,492	96,459	19,494
Jordan	2020	21,398	17,032	18	..	1,379	2,969	..
	2021	22,046	16,790	19	..	1,596	3,642	..
	2022	24,114	17,997	19	..	1,748	4,350	..
	2023	25,018	18,965	22	..	1,647	4,383	..
Kazakhstan	2020	110,890	98,711	9,660	..	1,029	1,490	..
	2021	115,078	102,493	9,208	..	1,747	1,629	..
	2022	113,552	100,133	9,201	..	2,319	1,900	..
	2023	113,585	99,117	8,809	..	3,786	1,873	..
Korea, Dem.Ppl's.Rep.	2020	24,053	11,200	12,800	..	..	53	..
	2021	25,565	9,400	16,100	..	..	65	..
	2022	26,465	9,800	16,600	..	..	65	..
	2023	25,065	9,200	15,800	..	..	65	..
Korea, Republic of	2020	594,234	401,706	7,148	160,184	3,151	17,967	4,077
	2021	626,485	430,017	6,737	158,015	3,182	23,395	5,138
	2022	624,880	405,073	7,256	176,054	3,372	28,918	4,205
	2023	610,685	384,588	7,500	180,494	3,397	29,903	4,802
Kuwait	2020	74,969	74,756	..	..	33	180	..
	2021	80,969	80,781	..	..	29	159	..
	2022	83,707	83,544	..	..	34	129	..
	2023	88,189	88,017	..	..	35	136	..
Kyrgyzstan	2020	15,404	1,425	13,979	..	..	..	..
	2021	14,815	1,858	12,957	..	..	..	..
	2022	13,883	1,954	11,929	..	..	..	..
	2023	13,839	1,808	12,031	..	..	..	..
Lao People's Dem. Rep.	2020	*39,971	*13,665	*26,262	..	..	*45	..
	2021	*44,931	*13,798	*31,072	..	..	61	..
	2022	51,031	12,216	38,736	..	..	79	..
	2023	*48,702	*9,763	*38,854	..	..	*85	..

Table 33

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	11,160	2,821	8,248	..	91
..	..	..	..	12,645	2,380	10,182	..	83
..	..	..	..	14,247	3,388	10,771	..	88
..	..	..	..	14,396	3,446	10,863	..	86
*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
228,726	216,700	400	*11,626	1,588,089	1,206,301	162,099	45,861	*173,828
198,322	185,337	351	12,633	1,758,995	1,365,606	143,539	47,937	201,913
37,580	36,735	820	25	238,950	204,648	20,804	..	13,498
39,855	37,975	1,830	50	249,666	215,898	17,750	..	16,018
33,637	33,491	..	146	310,753	268,845	25,013	..	16,895
51,830	46,705	4,658	467	323,321	285,796	19,932	..	17,593
6,120	6,120	..	..	336,307	307,367	22,076	5,527	1,338
6,595	6,595	..	..	349,317	331,333	12,267	4,358	1,359
6,740	6,740	..	..	362,071	337,862	16,706	5,954	1,549
7,045	7,045	..	..	378,195	353,558	16,941	6,013	1,683
57	..	..	57	85,376	81,214	4,162	..	..
57	..	..	57	86,107	82,761	3,346	..	..
61	..	..	61	115,530	112,879	2,651	..	..
61	..	..	61	94,389	93,006	1,383	..	..
8,072	4,128	..	3,945	64,212	63,574	..	..	638
9,322	4,355	..	4,966	64,475	63,698	..	..	776
9,963	4,076	..	5,886	66,002	65,270	..	..	731
13,107	4,808	..	8,298	63,487	62,816	..	..	671
159,003	74,587	2,999	81,417	857,863	708,059	84,549	38,752	26,504
173,248	83,014	3,041	87,193	876,470	690,712	85,784	70,805	29,169
171,037	79,093	2,959	88,984	846,643	675,334	83,048	56,070	32,191
167,567	73,595	2,592	91,381	835,082	633,556	82,406	84,055	35,065
2,588	1,264	..	1,324	18,810	15,768	18	..	3,024
2,825	1,345	..	1,479	19,221	15,445	19	..	3,758
3,614	1,486	..	2,128	20,501	16,511	19	..	3,971
3,811	1,571	..	2,240	21,206	17,394	22	..	3,790
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
15,465	12,722	2,729	13	98,088	87,410	6,472	..	4,205
12,737	10,345	2,379	13	100,849	88,773	6,430	..	5,646
..	..	..	..	24,053	11,200	12,800	..	53
..	..	..	..	25,565	9,400	16,100	..	65
..	..	..	..	26,465	9,800	16,600	..	65
..	..	..	..	25,065	9,200	15,800	..	65
39,452	37,944	..	1,507	554,782	363,762	7,148	160,184	23,688
40,354	38,630	..	1,723	586,131	391,387	6,737	158,015	29,992
38,200	36,132	..	2,069	586,679	368,942	7,256	176,054	34,427
34,877	32,673	..	2,204	575,809	351,915	7,500	180,494	35,899
..	..	..	..	74,969	74,756	..	..	213
..	..	..	..	80,969	80,781	..	..	188
..	..	..	..	83,707	83,544	..	..	163
..	..	..	..	88,189	88,017	..	..	172
26	26	..	..	15,378	1,399	13,979	..	..
23	23	..	..	14,792	1,835	12,957	..	..
23	23	..	..	13,860	1,931	11,929	..	..
20	20	..	..	13,819	1,788	12,031	..	..
..	..	..	..	*39,971	*13,665	*26,262	..	*45
..	..	..	..	*44,931	*13,798	*31,072	..	61
..	..	..	..	51,031	12,216	38,736	..	79
..	..	..	..	*48,702	*9,763	*38,854	..	*85

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Lebanon	2020	10,606	9,630	843	..	..	133	..
	2021	8,024	7,103	612	..	..	309	..
	2022	4,083	2,126	695	..	..	1,262	..
	2023	5,440	3,454	536	..	..	1,450	..
Malaysia	2020	174,142	144,794	27,295	..	..	2,054	..
	2021	179,987	146,849	31,101	..	..	2,037	..
	2022	196,183	160,895	31,896	..	..	3,392	..
	2023	192,987	157,674	31,896	..	..	3,417	..
Maldives	2020	745	703	..	..	2	40	..
	2021	1,195	1,151	..	..	3	42	..
	2022	1,227	1,178	..	..	3	46	..
	2023	*1,155	*1,099	..	..	3	54	..
Mongolia	2020	6,970	6,486	85	..	340	59	..
	2021	7,825	7,061	138	..	568	59	..
	2022	8,035	7,387	68	..	503	78	..
	2023	8,487	7,723	48	..	533	184	..
Myanmar	2020	23,643	15,194	8,370	..	..	79	..
	2021	22,075	12,350	9,590	..	..	135	..
	2022	21,539	12,275	9,070	..	..	194	..
	2023	20,943	11,284	9,282	..	..	377	..
Nepal	2020	6,189	0	6,092	..	1	96	..
	2021	9,668	0	9,534	..	1	133	..
	2022	10,827	0	10,696	..	6	125	..
	2023	13,034	0	12,847	..	6	181	..
Oman	2020	38,429	38,322	..	..	104	3	..
	2021	41,718	40,992	..	..	119	607	..
	2022	44,472	42,511	..	..	115	1,846	..
	2023	47,049	45,013	..	..	121	1,915	..
Other Asia	2020	279,995	233,991	6,178	31,440	2,309	6,075	2
	2021	291,020	246,337	6,659	27,788	2,257	7,970	9
	2022	288,154	241,255	8,899	23,755	3,543	10,677	25
	2023	282,159	238,168	7,019	17,802	6,238	12,909	23
Pakistan	2020	144,435	86,550	35,069	17,045	4,800	971	..
	2021	128,521	64,213	35,273	23,857	4,086	1,092	..
	2022	130,525	65,445	35,549	24,055	4,086	1,390	..
	2023	137,812	68,847	40,017	23,155	3,943	1,850	..
Philippines	2020	101,773	81,408	7,209	..	1,026	1,373	10,757
	2021	106,131	84,173	9,202	..	1,270	1,470	10,017
	2022	111,533	88,154	10,102	..	1,030	1,822	10,425
	2023	118,004	93,134	10,287	..	1,308	2,544	10,730
Qatar	2020	49,259	49,259	..	..	..	..	..
	2021	51,641	51,641	..	..	..	..	..
	2022	54,623	54,029	..	..	..	594	..
	2023	56,249	54,367	..	..	..	1,882	..
Saudi Arabia	2020	367,484	366,563	..	..	*6	915	..
	2021	379,032	377,682	..	..	409	941	..
	2022	437,830	435,126	..	..	1,588	1,116	..
	2023	441,500	438,726	..	..	1,588	1,186	..
Singapore	2020	53,582	53,080	..	..	..	502	..
	2021	56,524	55,789	..	..	..	735	..
	2022	58,349	57,113	..	..	..	1,236	..
	2023	58,439	57,388	..	..	..	1,051	..
Sri Lanka	2020	15,801	10,260	4,976	..	344	221	..
	2021	17,363	8,923	7,227	..	657	557	..
	2022	16,828	8,363	6,759	..	738	968	..
	2023	15,696	8,064	5,951	..	822	859	..

Table 33

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
133	..	..	133	10,473	9,630	843	..	..
309	..	..	309	7,715	7,103	612	..	..
1,262	..	..	1,262	2,821	2,126	695	..	..
1,450	..	..	1,450	3,990	3,454	536	..	..
6,676	6,666	..	10	167,466	138,128	27,295	..	2,044
6,686	6,676	..	10	173,301	140,173	31,101	..	2,027
8,055	8,045	..	10	188,128	152,850	31,896	..	3,382
7,848	7,837	..	10	185,139	149,836	31,896	..	3,407
*210	*210	..	..	535	493	..	..	43
*160	*160	..	..	1,035	991	..	..	45
*130	*130	..	..	1,097	1,048	..	..	49
*180	*180	..	..	*975	*919	..	..	56
85	..	85	..	6,885	6,486	..	..	399
138	..	138	..	7,687	7,061	..	..	627
68	..	68	..	7,967	7,387	..	..	580
48	..	48	..	8,440	7,723	..	..	717
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
14,918	11,072	3,652	194	6,621	1,202	5,418	..	1
14,100	10,325	3,398	376	6,843	958	5,884	..	1
222	..	143	79	5,966	0	5,949	..	17
227	..	146	81	9,441	0	9,388	..	53
238	..	160	78	10,589	0	10,536	..	53
238	..	160	78	12,796	0	12,687	..	109
..	..	..	..	38,429	38,322	..	..	107
..	..	..	..	41,718	40,992	..	..	726
..	..	..	..	44,472	42,511	..	..	1,962
..	..	..	..	47,049	45,013	..	..	2,036
42,370	37,191	0	5,179	237,625	196,801	6,178	31,440	3,206
45,157	39,065	1	6,091	245,863	207,271	6,658	27,788	4,146
40,493	32,069	6	8,418	247,661	209,186	8,893	23,755	5,827
43,069	34,002	5	9,061	239,090	204,165	7,014	17,802	10,109
3,066	3,066	..	..	141,369	83,484	35,069	17,045	5,771
1,573	1,573	..	..	126,948	62,640	35,273	23,857	5,178
2,801	2,801	..	..	127,724	62,644	35,549	24,055	5,476
1,147	1,147	..	..	136,665	67,700	40,017	23,155	5,793
1,259	1,242	*17	..	100,513	80,166	7,192	..	13,156
1,447	1,430	*17	..	104,684	82,743	9,185	..	12,756
1,315	1,298	*17	..	110,218	86,856	10,085	..	13,277
1,380	1,380	..	..	116,624	91,754	10,287	..	14,582
46,500	46,500	..	..	2,759	2,759	..	..	..
50,005	50,005	..	..	1,637	1,637	..	..	..
51,917	51,917	..	..	2,706	2,112	..	..	594
52,603	52,603	..	..	3,646	1,764	..	..	1,882
*127,936	*127,936	..	..	239,548	238,627	..	..	921
*129,546	*129,546	..	..	249,486	248,136	..	..	1,350
117,070	117,022	..	48	320,760	318,104	..	..	2,656
171,743	171,695	..	48	269,757	267,031	..	..	2,726
4,661	4,661	..	..	48,921	48,419	..	..	502
4,599	4,599	..	..	51,925	51,190	..	..	735
4,432	4,432	..	..	53,917	52,681	..	..	1,236
4,498	4,498	..	..	53,941	52,890	..	..	1,051
1,269	*118	1,047	*105	14,532	10,142	3,929	..	460
1,924	93	1,568	263	15,439	8,830	5,659	..	951
2,276	117	1,377	782	14,553	8,246	5,383	..	924
2,062	*48	1,378	636	13,634	8,016	4,573	..	1,045

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	2020	840	662	..	..	..	178	..
	2021	917	693	..	..	..	224	..
	2022	1,021	679	..	..	..	342	..
	2023	985	563	..	..	..	422	..
Syrian Arab Republic	2020	25,857	25,082	754	..	1	21	..
	2021	24,959	24,146	754	..	1	58	..
	2022	23,735	22,875	754	..	1	106	..
	2023	24,994	24,134	754	..	1	106	..
Tajikistan	2020	19,734	1,620	18,114	..	..	..	..
	2021	20,624	1,657	18,967	..	..	..	..
	2022	21,399	1,475	19,924	..	..	..	..
	2023	21,860	1,228	20,632	..	..	..	..
Thailand	2020	189,697	177,227	4,218	..	3,220	5,031	1
	2021	*187,822	*174,966	4,287	..	3,552	5,015	2
	2022	199,171	184,533	6,449	..	3,036	5,152	1
	2023	218,440	203,100	6,474	..	3,519	5,346	1
Timor-Leste	2020	505	503	2	..	..	1	..
	2021	510	508	2	..	..	1	..
	2022	*522	*520	*2	..	..	*1	..
	2023	528	526	*2	..	..	*1	..
Türkiye	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
	2022	328,379	197,261	66,802	..	34,945	16,888	12,483
	2023	331,149	198,576	64,002	..	34,109	22,091	12,371
Turkmenistan	2020	25,763	25,759	3	..	..	..	..
	2021	28,400	28,394	6	..	..	..	..
	2022	32,600	32,594	6	..	..	..	..
	2023	32,600	32,594	6	..	..	..	..
United Arab Emirates	2020	*137,311	*131,836	..	..	..	5,475	..
	2021	149,053	133,235	..	10,067	..	5,752	..
	2022	156,133	127,794	..	20,596	..	7,743	..
	2023	168,689	121,211	..	33,063	..	14,415	..
Uzbekistan	2020	66,516	61,502	4,999	..	16	0	..
	2021	71,414	66,391	4,972	..	1	49	..
	2022	74,268	67,348	6,484	..	0	436	..
	2023	*77,821	*70,251	6,940	..	7	622	..
Viet Nam	2020	240,543	156,672	73,461	..	976	9,434	..
	2021	253,498	143,728	78,633	..	3,346	27,791	..
	2022	276,372	143,000	97,894	..	9,064	26,414	..
	2023	274,099	154,617	80,675	..	11,585	27,222	..
Yemen	2020	4,896	4,397	..	..	..	499	..
	2021	4,759	4,260	..	..	..	499	..
	2022	5,208	4,697	..	..	..	511	..
	2023	5,137	4,605	..	..	..	533	..
Europe	2020	4,696,674	2,142,791	825,968	1,050,062	490,803	168,064	18,987
	2021	4,906,680	2,275,386	839,239	1,112,527	472,534	188,065	18,929
	2022	4,755,191	2,274,620	727,340	973,078	526,708	234,891	18,554
	2023	4,681,622	2,022,774	809,904	965,376	583,954	278,878	20,737
Albania	2020	5,313	..	5,281	..	..	32	..
	2021	8,963	..	8,922	..	..	41	..
	2022	7,003	..	6,842	..	..	161	..
	2023	9,006	..	8,709	..	..	297	..
Andorra	2020	153	29	124	..	..	1	..
	2021	109	29	79	..	..	1	..
	2022	104	25	70	..	..	9	..
	2023	113	26	73	..	..	14	..

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
163	74	..	89	677	588	..	..	89
183	71	..	112	733	621	..	..	112
242	71	..	171	779	608	..	..	171
271	60	..	211	714	503	..	..	211
1,247	1,246	..	0	24,610	23,836	754	..	21
1,182	1,182	..	0	23,777	22,964	754	..	59
1,117	1,113	..	4	22,618	21,762	754	..	103
1,226	1,222	..	4	23,769	22,912	754	..	103
..	..	..	..	19,734	1,620	18,114	..	..
..	..	..	..	20,624	1,657	18,967	..	..
..	..	..	..	21,399	1,475	19,924	..	..
..	..	..	..	21,860	1,228	20,632	..	..
..	..	..	..	189,697	177,227	4,218	..	8,252
..	..	..	..	*187,822	*174,966	4,287	..	8,569
..	..	..	..	199,171	184,533	6,449	..	8,189
..	..	..	..	218,440	203,100	6,474	..	8,866
..	..	..	..	505	503	2	..	1
..	..	..	..	510	508	2	..	1
..	..	..	..	*522	*520	*2	..	*1
..	..	..	..	528	526	*2	..	*1
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
25,591	18,939	47	6,604	302,789	178,321	66,755	..	57,712
30,446	20,395	57	9,995	300,702	178,181	63,946	..	58,576
..	..	..	..	25,763	25,759	3	..	..
..	..	..	..	28,400	28,394	6	..	..
..	..	..	..	32,600	32,594	6	..	..
..	..	..	..	32,600	32,594	6	..	..
..	..	..	..	*137,311	*131,836	..	..	5,475
..	..	..	..	149,053	133,235	..	10,067	5,752
..	..	..	..	156,133	127,794	..	20,596	7,743
..	..	..	..	168,689	121,211	..	33,063	14,415
..	..	..	..	66,516	61,502	4,999	..	16
297	297	..	..	71,117	66,094	4,972	..	50
308	308	..	..	73,960	67,040	6,484	..	436
323	323	..	..	*77,498	*69,928	6,940	..	630
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
9,007	8,925	*80	*2	267,365	134,075	97,814	..	35,476
9,921	9,839	*80	*2	264,178	144,778	80,595	..	38,805
728	229	..	499	4,168	4,168	..	..	..
726	226	..	499	4,034	4,034	..	..	..
741	230	..	511	4,467	4,467	..	..	..
748	225	..	523	4,389	4,379	..	..	10
431,517	370,571	10,976	49,969	4,265,157	1,772,219	814,991	1,050,062	627,884
478,655	399,800	10,670	68,186	4,428,026	1,875,586	828,569	1,112,527	611,344
474,743	373,205	9,543	91,995	4,280,448	1,901,415	717,797	973,078	688,158
485,820	360,857	10,377	114,585	4,195,802	1,661,917	799,526	965,376	768,983
..	..	..	..	5,313	..	5,281	..	32
..	..	..	..	8,963	..	8,922	..	41
..	..	..	..	7,003	..	6,842	..	161
..	..	..	..	9,006	..	8,709	..	297
25	25	..	..	128	4	124	..	1
22	22	..	..	87	7	79	..	1
19	19	..	..	85	6	70	..	9
17	17	..	..	96	9	73	..	14

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Austria	2020	72,558	18,368	45,344	..	6,792	2,043	12
	2021	70,887	18,678	42,678	..	6,740	2,774	16
	2022	69,193	19,013	39,141	..	7,242	3,783	15
	2023	74,459	15,492	44,523	..	8,037	6,395	12
Belarus	2020	38,548	37,441	399	338	194	176	..
	2021	41,240	34,749	371	5,780	168	172	..
	2022	39,400	31,734	371	6,828	180	287	..
	2023	41,709	29,134	300	11,805	183	287	..
Belgium	2020	89,454	35,275	1,315	34,435	12,819	5,113	498
	2021	100,482	30,677	1,350	50,326	11,998	5,623	508
	2022	95,948	30,773	1,646	43,879	12,353	6,879	418
	2023	83,669	25,407	1,656	32,928	15,444	7,820	415
Bosnia and Herzegovina	2020	16,874	11,904	4,663	..	262	45	..
	2021	18,536	11,286	6,796	..	382	72	..
	2022	16,384	11,140	4,739	..	391	114	..
	2023	17,185	9,815	6,761	..	356	253	..
Bulgaria	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
	2022	50,499	26,583	3,833	16,462	1,499	2,094	28
	2023	40,256	15,831	3,130	16,163	1,584	3,521	26
Croatia	2020	13,385	5,665	5,810	..	1,721	96	94
	2021	15,210	5,681	7,229	..	2,062	149	90
	2022	14,221	6,284	5,574	..	2,138	152	73
	2023	17,541	6,273	8,248	..	2,587	413	21
Czechia	2020	81,525	44,933	3,437	30,043	699	2,294	118
	2021	85,016	47,677	3,620	30,731	602	2,250	136
	2022	84,851	47,346	3,083	31,022	641	2,626	132
	2023	77,004	39,458	3,427	30,410	702	2,892	115
Denmark	2020	28,729	11,201	17	..	16,330	1,181	..
	2021	33,051	15,671	16	..	16,054	1,309	..
	2022	35,124	13,884	15	..	19,022	2,203	..
	2023	33,733	10,957	20	..	19,393	3,363	..
Estonia	2020	6,078	4,959	30	..	844	245	..
	2021	7,204	6,095	23	..	733	354	..
	2022	8,937	7,650	23	..	668	596	..
	2023	5,745	4,317	24	..	683	721	..
Faeroe Islands	2020	407	251	109	..	47	0	..
	2021	424	269	100	..	54	0	0
	2022	434	213	131	..	90	0	0
	2023	458	232	100	..	126	0	0
Finland	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
	2022	72,187	20,693	13,491	25,336	12,022	392	252
	2023	81,540	16,032	15,200	34,308	15,043	716	241
France	2020	532,891	56,864	67,094	353,833	40,658	13,189	1,251
	2021	555,641	58,170	63,947	379,361	37,628	15,357	1,179
	2022	473,672	68,134	51,049	294,731	38,963	19,628	1,167
	2023	525,660	51,240	60,850	338,202	51,489	21,823	2,055
Germany	2020	575,462	302,330	25,275	64,382	132,102	49,496	1,877
	2021	592,799	332,188	24,972	69,130	114,169	50,472	1,868
	2022	578,949	333,345	23,576	34,709	124,816	61,022	1,481
	2023	511,881	273,470	25,337	7,216	140,538	63,576	1,744
Gibraltar	2020	213	213	..	..	..	..	0
	2021	218	218	..	..	..	..	0
	2022	218	218	..	..	..	..	0
	2023	231	231	..	..	..	..	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
7,837	7,371	456	10	64,721	10,997	44,888	..	8,836
10,755	7,669	407	2,679	60,131	11,009	42,271	..	6,852
11,104	7,222	269	3,613	58,089	11,791	38,872	..	7,426
13,509	7,029	324	6,156	60,951	8,464	44,199	..	8,288
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
3,510	3,368	7	134	35,891	28,366	364	6,828	333
3,233	3,092	6	134	38,476	26,042	294	11,805	336
15,117	9,450	..	5,667	74,336	25,825	1,315	34,435	12,763
15,652	9,521	..	6,131	84,829	21,156	1,350	50,326	11,997
16,073	8,789	..	7,284	79,875	21,984	1,646	43,879	12,365
17,144	9,008	..	8,136	66,526	16,399	1,656	32,928	15,543
347	347	..	..	16,527	11,557	4,663	..	307
414	414	..	..	18,122	10,872	6,796	..	454
434	434	..	..	15,950	10,706	4,739	..	505
426	426	..	..	16,759	9,389	6,761	..	609
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
907	793	..	114	49,592	25,790	3,833	16,462	3,506
940	643	..	297	39,316	15,188	3,130	16,163	4,834
405	399	6	..	12,981	5,266	5,805	..	1,910
346	340	6	..	14,865	5,341	7,223	..	2,300
283	281	2	..	13,937	6,003	5,571	..	2,362
277	277	..	..	17,265	5,996	8,248	..	3,020
9,066	8,333	644	89	72,458	36,600	2,793	30,043	3,023
9,177	8,375	693	110	75,838	39,302	2,927	30,731	2,878
7,337	6,629	602	106	77,514	40,717	2,481	31,022	3,294
7,849	5,864	552	1,433	69,156	33,594	2,876	30,410	2,275
3,419	2,238	..	1,181	25,310	8,963	17	..	16,330
3,564	2,255	..	1,309	29,487	13,416	16	..	16,054
4,469	2,266	..	2,203	30,655	11,618	15	..	19,022
5,426	2,063	..	3,363	28,307	8,894	20	..	19,393
183	177	4	2	5,896	4,782	26	..	1,087
176	172	2	2	7,029	5,923	21	..	1,085
173	170	..	3	8,764	7,480	23	..	1,261
144	140	..	4	5,601	4,177	24	..	1,400
..	..	..	..	407	251	109	..	47
..	..	..	..	424	269	100	..	54
..	..	..	..	434	213	131	..	90
..	..	..	..	458	232	100	..	126
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
10,740	7,994	948	1,798	61,447	12,699	12,543	25,336	10,868
10,286	7,241	1,126	1,919	71,254	8,791	14,074	34,308	14,081
21,490	16,059	592	4,839	511,401	40,805	66,503	353,833	50,260
21,097	15,520	562	5,014	534,545	42,649	63,384	379,361	49,150
22,748	16,270	503	5,975	450,924	51,864	50,546	294,731	53,783
21,414	13,631	590	7,193	504,246	37,610	60,260	338,202	68,174
53,010	51,839	84	1,087	522,452	250,491	25,191	64,382	182,388
54,378	53,236	99	1,043	538,421	278,952	24,873	69,130	165,466
48,724	47,720	100	904	530,225	285,625	23,476	34,709	186,415
47,295	46,286	101	908	464,586	227,185	25,236	7,216	204,950
..	..	..	..	213	213	..	..	0
..	..	..	..	218	218	..	..	0
..	..	..	..	218	218	..	..	0
..	..	..	..	231	231	..	..	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	2020	48,252	31,055	3,440	..	9,310	4,447	..
	2021	54,744	33,049	5,961	..	10,483	5,251	..
	2022	52,670	30,647	4,000	..	10,883	7,140	..
	2023	49,917	25,957	4,044	..	11,022	8,894	..
Guernsey	2020	23	23	..	..	..	0	..
	2021	27	27	..	..	..	0	..
	2022	29	29	..	..	..	0	..
	2023	34	33	..	..	..	0	..
Hungary	2020	34,930	15,358	244	16,055	655	2,459	159
	2021	36,120	15,301	212	15,990	664	3,796	157
	2022	35,802	14,392	178	15,812	610	4,732	77
	2023	35,546	11,704	222	15,918	646	6,925	131
Iceland	2020	19,127	3	13,157	..	7	..	5,961
	2021	19,614	2	13,804	..	6	..	5,802
	2022	20,121	3	14,196	..	6	0	5,916
	2023	20,244	4	14,226	..	7	0	6,006
Ireland	2020	32,460	19,440	1,224	..	11,740	55	..
	2021	32,028	20,968	1,036	..	9,940	85	..
	2022	34,045	21,551	948	..	11,393	149	4
	2023	31,853	18,098	1,238	..	11,863	646	7
Isle of Man	2020	552	548	4	..	..	..	..
	2021	360	356	4	..	..	..	..
	2022	589	585	3	..	..	..	..
	2023	542	539	3	..	..	..	..
Italy	2020	280,531	180,805	49,495	..	18,762	24,942	6,528
	2021	289,074	189,132	47,478	..	20,931	25,039	6,493
	2022	283,961	198,515	30,291	..	20,494	28,121	6,540
	2023	264,716	161,974	42,068	..	23,640	30,711	6,322
Jersey	2020	43	43	..	..	..	..	..
	2021	33	33	..	..	..	..	..
	2022	41	41	..	..	..	..	..
	2023	42	42	..	..	..	..	..
Kosovo	2020	6,711	6,348	263	..	90	10	..
	2021	6,892	6,453	297	..	126	16	..
	2022	6,998	6,361	260	..	363	14	..
	2023	6,352	5,548	393	..	402	9	..
Latvia	2020	5,725	2,940	2,603	..	177	5	..
	2021	5,846	2,990	2,708	..	141	7	..
	2022	5,031	2,016	2,750	..	190	75	..
	2023	6,388	2,083	3,794	..	271	239	..
Liechtenstein	2020	104	1	73	..	..	30	..
	2021	107	2	74	..	..	31	..
	2022	103	3	62	..	..	39	..
	2023	126	2	77	..	..	46	..
Lithuania	2020	5,518	2,550	1,080	..	1,552	129	207
	2021	5,079	2,240	1,094	..	1,362	191	193
	2022	4,783	1,845	1,021	..	1,512	342	63
	2023	5,979	1,741	989	..	2,536	688	24
Luxembourg	2020	2,234	628	1,094	..	351	161	..
	2021	2,211	632	1,085	..	314	180	..
	2022	2,258	546	1,124	..	312	276	..
	2023	2,532	507	1,236	..	495	294	..
Malta	2020	2,143	1,906	..	..	0	237	..
	2021	2,215	1,959	..	..	0	256	..
	2022	2,293	2,004	..	..	0	289	..
	2023	2,345	2,036	..	..	0	309	..

Table 33

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
2,712	2,712	..	..	45,539	28,342	3,440	..	13,757
2,795	2,795	..	..	51,949	30,254	5,961	..	15,734
2,923	2,923	..	..	49,747	27,725	4,000	..	18,023
2,832	2,832	..	..	47,084	23,125	4,044	..	19,915
..	..	..	..	23	23	..	..	0
..	..	..	..	27	27	..	..	0
..	..	..	..	29	29	..	..	0
..	..	..	..	34	33	..	..	0
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
3,199	993	..	2,206	32,603	13,400	178	15,812	3,213
4,058	853	..	3,205	31,488	10,851	222	15,918	4,497
..	..	..	..	19,127	3	13,157	..	5,967
..	..	..	..	19,614	2	13,804	..	5,808
..	..	..	..	20,121	3	14,196	..	5,922
..	..	..	..	20,244	4	14,226	..	6,013
2,196	2,088	..	109	30,263	17,352	1,224	..	11,687
2,209	2,064	..	145	29,819	18,904	1,036	..	9,880
2,265	2,072	..	193	31,780	19,479	948	..	11,353
2,205	1,911	..	294	29,648	16,187	1,238	..	12,223
*33	*33	..	..	518	515	4	..	..
*32	*32	..	..	328	324	4	..	..
25	25	..	..	563	560	3	..	..
22	22	..	..	520	517	3	..	..
20,335	19,658	465	212	260,196	161,147	49,030	..	50,019
50,206	39,184	331	10,691	238,868	149,948	47,148	..	41,772
53,927	40,904	247	12,776	230,034	157,612	30,044	..	42,379
53,349	37,576	308	15,465	211,368	124,398	41,760	..	45,209
42	42	..	..	1	1	..	..	..
32	32	..	..	1	1	..	..	..
40	40	..	..	1	1	..	..	..
40	40	..	..	2	2	..	..	..
..	..	..	..	6,711	6,348	263	..	101
..	..	..	..	6,892	6,453	297	..	142
..	..	..	..	6,998	6,361	260	..	377
..	..	..	..	6,352	5,548	393	..	411
182	173	2	7	5,543	2,767	2,601	..	175
168	157	2	9	5,678	2,833	2,706	..	140
210	131	2	77	4,821	1,884	2,748	..	189
326	99	2	225	6,062	1,984	3,793	..	284
..	..	..	..	104	1	73	..	30
..	..	..	..	107	2	74	..	31
..	..	..	..	103	3	62	..	39
..	..	..	..	126	2	77	..	46
816	609	..	207	4,702	1,941	1,080	..	1,681
697	505	..	193	4,382	1,735	1,094	..	1,553
716	653	..	63	4,067	1,192	1,021	..	1,854
547	523	..	24	5,432	1,219	989	..	3,225
309	143	5	161	1,926	485	1,090	..	351
312	128	5	180	1,899	504	1,080	..	314
387	104	7	276	1,871	442	1,116	..	312
389	92	3	294	2,143	415	1,233	..	495
243	6	..	237	1,900	1,900	..	..	..
263	7	..	256	1,952	1,952	..	..	..
297	7	..	289	1,997	1,997	..	..	..
319	10	..	309	2,026	2,026	..	..	..

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Montenegro	2020	3,386	1,615	1,448	..	320	2	..
	2021	3,781	1,444	2,010	..	325	3	..
	2022	3,322	1,551	1,444	..	325	3	..
	2023	4,187	1,637	2,221	..	312	17	..
Netherlands (Kingd. of the)	2020	123,278	94,787	46	4,087	15,278	8,567	512
	2021	122,170	88,305	88	3,828	18,123	11,304	522
	2022	121,573	78,541	50	4,156	21,566	16,657	602
	2023	121,331	67,602	69	3,985	29,525	19,578	571
North Macedonia	2020	5,347	3,929	1,277	..	117	24	..
	2021	5,532	3,926	1,452	..	103	51	..
	2022	5,933	4,389	1,345	..	108	92	..
	2023	6,774	4,739	1,623	..	158	255	..
Norway	2020	155,196	2,441	142,471	..	9,913	82	289
	2021	157,922	1,292	144,368	..	11,770	109	383
	2022	146,731	1,918	129,366	..	14,810	173	464
	2023	154,895	2,138	137,975	..	13,965	358	460
Poland	2020	158,043	137,254	2,937	..	15,800	1,958	94
	2021	179,631	156,279	3,101	..	16,234	3,934	84
	2022	179,748	148,579	3,018	..	19,780	8,310	61
	2023	167,362	127,848	3,734	..	24,176	11,107	497
Portugal	2020	53,078	25,214	13,633	..	12,299	1,716	217
	2021	50,980	21,894	13,455	..	13,216	2,237	179
	2022	48,808	23,011	8,839	..	13,244	3,519	195
	2023	49,043	15,662	14,868	..	13,145	5,160	208
Republic of Moldova	2020	983	881	47	..	51	4	..
	2021	1,131	976	68	..	77	10	..
	2022	995	761	41	..	140	53	..
	2023	1,169	745	69	..	192	163	..
Romania	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	..
	2022	56,003	21,569	14,360	11,089	6,997	1,988	..
	2023	57,983	18,367	18,649	11,191	7,548	2,227	..
Russian Federation	2020	1,089,668	655,850	214,388	215,745	1,241	2,022	421
	2021	1,159,417	713,687	216,392	223,372	3,311	2,225	430
	2022	1,151,156	719,871	199,361	223,372	5,548	2,556	449
	2023	1,161,811	734,503	202,367	217,000	4,777	2,710	456
Serbia	2020	37,956	27,219	9,749	..	976	13	..
	2021	38,236	25,153	11,984	..	1,085	14	..
	2022	35,510	25,271	9,274	..	949	16	..
	2023	40,028	25,833	13,080	..	1,068	47	..
Slovakia	2020	28,838	7,897	4,799	15,444	4	663	31
	2021	30,016	8,999	4,552	15,730	5	671	59
	2022	26,838	6,254	3,963	15,920	4	650	47
	2023	29,903	5,882	5,028	18,333	4	605	51
Slovenia	2020	17,191	5,239	5,225	6,353	6	368	..
	2021	15,877	4,715	4,997	5,706	6	453	..
	2022	13,617	3,958	3,401	5,606	6	646	1
	2023	15,879	3,961	5,322	5,603	6	984	2
Spain	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
	2022	292,454	112,950	22,102	58,590	62,784	35,723	305
	2023	285,881	84,756	31,105	56,873	64,275	48,586	286
Sweden	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	..
	2022	173,159	16,015	69,967	51,944	33,253	1,980	..
	2023	166,093	14,024	66,240	48,470	34,245	3,114	..

Table 33

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	3,386	1,615	1,448	..	322
..	..	..	..	3,781	1,444	2,010	..	327
..	..	..	..	3,322	1,551	1,444	..	328
..	..	..	..	4,187	1,637	2,221	..	329
34,525	25,722	..	8,804	88,753	69,066	46	4,087	15,554
37,237	26,439	..	10,798	84,934	61,866	88	3,828	19,151
37,551	22,518	..	15,033	84,022	56,024	50	4,156	23,792
40,212	22,200	..	18,012	81,119	45,402	69	3,985	31,662
..	..	..	..	5,347	3,929	1,277	..	141
..	..	..	..	5,532	3,926	1,452	..	154
..	..	..	..	5,933	4,389	1,345	..	200
..	..	..	..	6,774	4,739	1,623	..	412
2,177	1,806	..	371	153,018	635	142,471	..	9,913
1,183	692	..	492	156,739	600	144,368	..	11,770
1,962	1,325	..	637	144,769	593	129,366	..	14,810
2,347	1,530	..	817	152,548	608	137,975	..	13,965
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
22,062	13,922	1	8,138	157,686	134,657	3,017	..	20,012
24,914	14,762	1	10,151	142,448	113,086	3,733	..	25,629
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
7,675	6,189	10	1,476	41,133	16,822	8,829	..	15,482
7,136	4,988	14	2,133	41,908	10,674	14,854	..	16,380
70	46	..	24	913	835	47	..	31
109	57	..	52	1,022	919	68	..	35
166	46	..	120	829	715	41	..	73
232	37	..	195	937	707	69	..	160
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
8,592	7,704	221	667	47,411	13,865	14,139	11,089	8,318
8,024	6,952	230	843	49,958	11,415	18,419	11,191	8,933
71,098	69,813	1,285	..	1,018,570	586,036	213,104	215,745	3,685
80,596	79,300	1,297	..	1,078,820	634,387	215,095	223,372	5,966
81,174	79,979	1,195	..	1,069,982	639,891	198,167	223,372	8,552
82,818	81,605	1,213	..	1,078,993	652,897	201,154	217,000	7,942
474	474	..	..	37,483	26,745	9,749	..	989
527	527	..	..	37,708	24,626	11,984	..	1,098
481	480	..	1	35,029	24,791	9,274	..	964
494	481	..	13	39,534	25,351	13,080	..	1,102
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
3,031	2,463	106	462	23,807	3,791	3,857	15,920	239
2,809	2,235	136	438	27,094	3,647	4,892	18,333	222
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
1,029	228	170	631	12,587	3,730	3,231	5,606	21
1,413	240	212	960	14,466	3,720	5,110	5,603	33
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
30,823	25,635	861	4,327	261,631	87,315	21,241	58,590	94,485
33,654	24,871	964	7,819	252,227	59,885	30,141	56,873	105,328
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
8,019	6,995	..	1,024	165,140	9,020	69,967	51,944	34,209
8,103	6,500	..	1,603	157,990	7,524	66,240	48,470	35,756

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Switzerland	2020	71,651	3,860	41,022	24,025	145	2,599	..
	2021	66,037	3,792	39,895	19,364	145	2,842	..
	2022	65,662	3,665	33,836	24,153	150	3,858	..
	2023	73,878	3,513	41,188	24,384	169	4,624	..
Ukraine	2020	148,408	55,258	7,564	76,203	3,271	5,969	144
	2021	157,915	51,835	10,333	86,206	2,833	6,565	144
	2022	112,295	34,349	10,905	62,069	714	4,201	57
	2023	105,209	35,175	12,354	51,990	1,033	4,599	57
United Kingdom	2020	310,546	163,563	8,445	50,239	75,623	12,552	125
	2021	308,637	178,065	7,312	46,104	64,924	12,133	99
	2022	325,540	176,396	7,652	47,400	80,542	13,344	206
	2023	293,392	148,206	7,361	40,596	82,309	13,889	1,031
Latin America & Carib.	2020	1,622,641	698,367	724,968	35,938	105,058	41,648	16,663
	2021	1,704,865	761,448	707,165	37,458	127,278	56,379	15,137
	2022	1,747,893	695,963	779,042	33,364	138,156	76,440	24,927
	2023	1,811,294	727,593	773,928	35,853	154,753	104,687	14,480
Anguilla	2020	92	88	..	..	..	4	..
	2021	99	95	..	..	..	4	..
	2022	107	103	..	..	..	*4	..
	2023	110	107	..	..	..	*4	..
Antigua and Barbuda	2020	360	342	..	..	..	18	..
	2021	369	347	..	..	..	22	..
	2022	*374	*350	..	..	..	24	..
	2023	*392	*368	..	..	..	*24	..
Argentina	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	..
	2022	146,315	97,688	23,580	7,955	14,164	2,928	..
	2023	152,876	85,349	40,829	8,963	14,475	3,260	..
Aruba	2020	*912	*736	..	..	*165	*11	..
	2021	*955	*772	..	..	*172	*11	..
	2022	*964	*779	..	..	*174	*11	..
	2023	*966	*780	..	..	*175	*11	..
Bahamas	2020	1,798	1,793	..	..	1	5	..
	2021	2,016	2,008	..	..	1	8	..
	2022	2,346	2,334	..	..	*1	11	..
	2023	2,302	2,291	..	..	*1	*11	..
Barbados	2020	1,016	947	..	..	..	69	..
	2021	1,025	940	..	..	..	85	..
	2022	1,068	959	..	..	..	108	..
	2023	1,094	981	..	..	..	112	..
Belize	2020	433	191	242	..	..	1	..
	2021	365	205	158	..	..	3	..
	2022	466	222	239	..	..	5	..
	2023	421	239	177	..	..	6	..
Bolivia (Plur. State of)	2020	9,984	6,640	2,942	..	64	338	..
	2021	10,884	7,172	3,237	..	120	355	..
	2022	11,413	7,767	2,852	..	439	355	..
	2023	11,971	8,793	2,324	..	479	375	..
Bonaire, St Eustatius, Saba	2020	145	112	..	..	25	8	..
	2021	156	118	..	..	29	9	..
	2022	163	126	..	..	30	8	..
	2023	179	140	..	..	26	12	..
Brazil	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
	2022	677,372	123,467	427,114	14,559	81,632	30,126	474
	2023	707,596	120,125	425,996	14,504	95,801	50,633	538

Table 33

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
8,572	3,119	2,854	2,599	63,079	741	38,168	24,025	145
8,779	3,008	2,929	2,842	57,258	783	36,966	19,364	145
9,366	2,961	2,547	3,858	56,295	703	31,289	24,153	150
10,343	2,848	2,871	4,624	63,534	665	38,316	24,384	169
3,328	3,161	..	167	145,080	52,097	7,564	76,203	9,217
3,407	3,238	..	169	154,508	48,597	10,333	86,206	9,372
2,414	2,341	..	74	109,881	32,008	10,905	62,069	4,899
2,703	2,628	..	75	102,506	32,547	12,354	51,990	5,615
75,115	55,701	1,871	17,542	235,432	107,862	6,574	50,239	70,757
71,562	54,607	1,682	15,272	237,075	123,458	5,630	46,104	61,884
69,886	50,611	1,744	17,531	255,654	125,785	5,907	47,400	76,561
68,573	49,305	1,725	17,543	224,820	98,902	5,636	40,596	79,686
230,128	187,558	21,921	20,650	1,392,513	510,810	703,046	35,938	142,719
229,476	183,913	20,887	24,677	1,475,389	577,535	686,278	37,458	174,117
233,754	179,033	25,063	29,658	1,514,138	516,930	753,979	33,364	209,865
252,932	178,317	26,542	48,073	1,558,362	549,276	747,386	35,853	225,847
..	..	..	..	92	88	..	..	4
..	..	..	..	99	95	..	..	4
..	..	..	..	107	103	..	..	*4
..	..	..	..	110	107	..	..	*4
*14	*13	..	1	346	329	..	..	17
*15	*14	..	1	355	333	..	..	22
*15	*14	..	1	*360	*336	..	..	23
*17	*16	..	*1	*375	*352	..	..	*23
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
12,295	12,282	13	..	134,020	85,406	23,567	7,955	17,092
12,643	12,329	314	..	140,233	73,020	40,515	8,963	17,735
..	..	..	..	*912	*736	..	..	*176
..	..	..	..	*955	*772	..	..	*183
..	..	..	..	*964	*779	..	..	*185
..	..	..	..	*966	*780	..	..	*186
*98	*98	..	..	1,700	1,695	..	..	5
*105	*105	..	..	1,911	1,903	..	..	8
*100	*100	..	..	2,246	2,234	..	..	12
*100	*100	..	..	2,202	2,191	..	..	*12
17	17	..	..	1,000	931	..	..	69
17	17	..	..	1,008	924	..	..	85
18	18	..	..	1,050	942	..	..	108
18	18	..	..	1,075	963	..	..	112
152	152	..	..	281	38	242	..	1
162	162	..	..	203	43	158	..	3
174	174	..	..	292	48	239	..	5
143	143	..	..	279	96	177	..	6
505	496	3	6	9,480	6,144	2,939	..	397
667	659	4	5	10,217	6,514	3,233	..	470
712	704	4	4	10,700	7,063	2,848	..	790
579	570	5	4	11,392	8,223	2,319	..	850
..	..	..	..	145	112	..	..	33
..	..	..	..	156	118	..	..	38
..	..	..	..	163	126	..	..	37
..	..	..	..	179	140	..	..	39
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
125,619	87,119	20,461	18,038	551,753	36,348	406,653	14,559	94,194
141,763	88,156	21,733	31,874	565,834	31,969	404,263	14,504	115,098

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	2020	*205	*201	..	..	2	2	..
	2021	*209	*205	..	..	2	2	..
	2022	*213	*209	..	..	2	2	..
	2023	217	212	..	..	*3	*3	..
Cayman Islands	2020	668	668	..	..	..	..	..
	2021	678	678	..	..	..	..	..
	2022	698	698	..	..	..	..	..
	2023	754	754	..	..	..	..	..
Chile	2020	83,994	48,331	21,873	..	5,602	7,971	216
	2021	88,019	50,154	19,348	..	7,628	10,565	324
	2022	90,695	44,937	20,684	..	8,893	15,714	467
	2023	90,324	38,604	23,524	..	9,391	18,438	368
Colombia	2020	79,550	29,361	49,977	..	10	201	..
	2021	84,054	20,520	62,318	..	62	333	821
	2022	85,993	23,140	62,248	..	74	518	13
	2023	89,270	29,914	57,881	..	203	1,242	31
Costa Rica	2020	11,730	217	8,294	..	1,459	70	1,689
	2021	12,737	194	9,286	..	1,573	82	1,602
	2022	12,673	156	9,449	..	1,369	81	1,619
	2023	12,013	663	8,327	..	1,461	82	1,479
Cuba	2020	19,071	18,698	112	..	*68	*193	..
	2021	17,966	17,581	120	..	*69	*196	..
	2022	15,732	15,370	120	..	*16	226	..
	2023	15,331	14,988	107	..	*14	223	..
Curaçao	2020	864	659	..	..	191	13	..
	2021	860	649	..	..	197	14	..
	2022	869	665	..	..	189	14	..
	2023	916	727	..	..	174	16	..
Dominica	2020	142	122	19	..	1	0	..
	2021	146	125	20	..	1	0	..
	2022	147	123	23	..	*1	0	..
	2023	157	135	20	..	*1	0	..
Dominican Republic	2020	21,401	18,305	1,575	..	1,169	353	..
	2021	23,228	19,630	1,859	..	1,239	500	..
	2022	23,517	20,196	1,298	..	1,215	808	..
	2023	24,267	20,518	1,439	..	1,129	1,181	..
Ecuador	2020	31,248	6,800	24,333	..	77	38	..
	2021	32,214	6,541	25,575	..	62	37	..
	2022	33,008	8,274	24,635	..	61	39	..
	2023	35,362	9,763	25,349	..	209	41	..
El Salvador	2020	6,219	1,790	2,067	..	14	899	1,450
	2021	6,361	1,888	1,817	..	132	1,073	1,452
	2022	7,584	2,512	2,234	..	135	1,122	1,581
	2023	7,762	3,238	1,568	..	167	1,194	1,595
Falkland Is. (Malvinas)	2020	18	14	..	..	4	0	..
	2021	19	14	..	..	4	0	..
	2022	*19	*14	..	..	5	0	..
	2023	20	15	..	..	5	0	..
Grenada	2020	227	223	..	..	0	4	..
	2021	233	229	..	..	0	4	..
	2022	252	247	..	..	0	4	..
	2023	269	264	..	..	0	4	..
Guatemala	2020	12,013	5,182	5,966	..	317	222	326
	2021	13,061	6,594	5,646	..	325	230	265
	2022	12,852	5,069	6,970	..	315	220	277
	2023	13,289	6,812	5,601	..	344	246	285

Table 33

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	*205	*201	..	..	4
..	..	..	..	*209	*205	..	..	5
..	..	..	..	*213	*209	..	..	5
..	..	..	..	217	212	..	..	*5
..	..	..	..	668	668	..	..	..
..	..	..	..	678	678	..	..	..
..	..	..	..	698	698	..	..	..
..	..	..	..	754	754	..	..	..
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
6,474	6,054	189	231	84,221	38,883	20,495	..	24,843
7,312	6,997	135	180	83,012	31,607	23,389	..	28,016
11,008	10,858	140	10	68,541	18,503	49,837	..	201
8,491	8,263	206	23	75,563	12,257	62,113	..	1,193
10,734	10,497	195	42	75,259	12,643	62,053	..	563
10,729	10,457	172	101	78,540	19,457	57,709	..	1,375
254	193	..	61	11,476	24	8,294	..	3,158
264	191	..	73	12,473	3	9,286	..	3,184
137	64	..	73	12,537	92	9,449	..	2,996
128	55	..	73	11,885	608	8,327	..	2,949
914	914	..	..	18,157	17,784	112	..	*261
861	861	..	..	17,105	16,720	120	..	*265
704	704	..	..	15,028	14,666	120	..	242
617	617	..	..	14,714	14,371	107	..	237
..	..	..	..	864	659	..	..	204
..	..	..	..	860	649	..	..	211
..	..	..	..	869	665	..	..	203
..	..	..	..	916	727	..	..	190
*44	*44	..	..	98	78	19	..	1
*44	*44	..	..	102	81	20	..	2
*45	*45	..	..	102	78	23	..	*2
*47	*47	..	..	109	87	20	..	*2
1,852	1,658	9	185	19,549	16,647	1,565	..	1,337
2,398	2,122	9	267	20,830	17,508	1,850	..	1,472
2,585	2,092	9	484	20,932	18,104	1,289	..	1,539
1,967	1,173	10	785	22,301	19,346	1,429	..	1,526
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
6,205	4,507	1,698	..	26,804	3,767	22,937	..	99
6,183	4,516	1,667	..	29,179	5,247	23,682	..	250
510	26	81	402	5,709	1,763	1,985	..	1,961
618	21	86	510	5,744	1,867	1,731	..	2,147
693	23	87	583	6,891	2,489	2,147	..	2,255
770	29	85	657	6,992	3,209	1,483	..	2,299
0	..	..	0	18	14	..	..	4
0	..	..	0	19	14	..	..	4
0	..	..	0	*19	*14	..	..	5
0	..	..	0	20	15	..	..	5
8	3	..	4	219	219	..	..	..
8	3	..	5	226	226	..	..	..
7	3	..	4	245	245	..	..	..
7	3	..	4	261	261	..	..	..
891	859	32	..	11,122	4,323	5,934	..	865
1,117	1,085	32	..	11,943	5,509	5,614	..	820
827	795	32	..	12,025	4,274	6,938	..	812
1,066	1,037	29	..	12,223	5,775	5,572	..	875

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Guyana	2020	1,135	1,123	..	..	0	12	..
	2021	1,138	1,123	..	..	0	14	..
	2022	1,264	1,246	..	..	0	18	..
	2023	1,333	1,315	..	..	0	18	..
Haiti	2020	1,004	855	144	..	0	5	..
	2021	998	859	134	..	0	5	..
	2022	1,028	838	185	..	0	6	..
	2023	829	664	159	..	0	6	..
Honduras	2020	10,059	5,232	2,701	..	707	1,113	307
	2021	10,957	4,940	3,765	..	775	1,129	348
	2022	11,149	5,228	3,883	..	686	1,016	337
	2023	11,844	6,453	3,208	..	770	1,094	318
Jamaica	2020	4,821	4,157	136	..	280	248	..
	2021	5,058	4,392	139	..	264	263	..
	2022	5,145	4,491	119	..	272	263	..
	2023	4,936	4,329	110	..	231	266	..
Mexico	2020	331,494	245,464	27,060	11,178	19,900	15,986	11,906
	2021	350,364	252,394	35,031	11,923	21,286	20,387	9,343
	2022	364,709	257,453	35,883	10,850	20,517	20,535	19,471
	2023	380,359	293,644	20,796	12,386	20,907	23,560	9,066
Montserrat	2020	14	14	..	..	..	0	..
	2021	14	13	..	..	..	0	..
	2022	14	13	..	..	..	0	..
	2023	14	13	..	..	..	2	..
Nicaragua	2020	3,791	1,873	574	..	550	26	767
	2021	4,213	2,197	599	..	656	27	734
	2022	4,196	2,270	650	..	562	26	687
	2023	4,525	2,612	470	..	665	27	751
Panama	2020	13,394	4,963	7,502	..	584	346	..
	2021	14,289	4,522	8,625	..	530	612	..
	2022	14,166	4,743	8,116	..	579	727	..
	2023	14,625	6,632	6,141	..	892	914	47
Paraguay	2020	46,602	231	46,371	..	..	..	..
	2021	40,805	231	40,574	..	..	..	..
	2022	44,110	230	43,879	..	..	..	..
	2023	53,042	230	52,812	..	..	..	..
Peru	2020	52,803	19,624	30,510	..	1,814	856	..
	2021	57,483	22,847	31,926	..	1,823	888	..
	2022	59,807	27,216	29,744	..	1,932	915	..
	2023	62,193	29,669	29,088	..	2,355	1,081	..
Saint Barthélemy	2020	121	121	..	..	..	0	..
	2021	133	133	..	..	..	0	..
	2022	143	143	..	..	..	0	..
	2023	146	146	..	..	..	0	..
Saint Martin (French Part)	2020	173	172	..	..	..	1	..
	2021	178	177	..	..	..	1	..
	2022	188	186	..	..	..	2	..
	2023	195	193	..	..	..	*2	..
Sint Maarten (Dutch part)	2020	265	265	..	..	..	..	..
	2021	*286	*286	..	..	..	..	..
	2022	*291	*291	..	..	..	..	..
	2023	*297	*297	..	..	..	..	..
St. Kitts-Nevis	2020	243	233	..	..	6	5	..
	2021	*239	*229	..	..	6	5	..
	2022	*245	*235	..	..	6	5	..
	2023	*249	*239	..	..	*6	*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
217	217	..	..	918	906	..	..	12
218	218	..	..	920	906	..	..	14
215	215	..	..	1,049	1,031	..	..	18
153	153	..	..	1,180	1,162	..	..	18
23	21	..	2	980	834	144	..	2
23	21	..	2	975	838	134	..	2
23	21	..	2	1,005	817	185	..	3
33	30	..	2	796	634	159	..	3
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
2,207	2,138	0	69	8,942	3,090	3,883	..	1,970
2,038	1,958	0	80	9,806	4,495	3,208	..	2,102
*964	*560	..	404	3,857	3,597	136	..	124
*1,019	*623	..	396	4,039	3,769	139	..	131
994	590	..	404	4,151	3,901	119	..	131
505	141	..	364	4,431	4,188	110	..	133
68,797	53,611	783	14,403	262,697	191,853	26,277	11,178	33,389
60,784	46,403	783	13,598	289,580	205,991	34,248	11,923	37,418
52,927	42,904	599	9,424	311,782	214,549	35,284	10,850	51,099
56,033	41,942	544	13,547	324,326	251,702	20,252	12,386	39,986
..	..	..	..	14	14	..	..	0
..	..	..	..	14	13	..	..	0
..	..	..	..	14	13	..	..	0
..	..	..	..	14	13	..	..	2
778	775	..	3	3,013	1,098	574	..	1,340
942	939	..	3	3,271	1,259	599	..	1,414
900	896	..	3	3,296	1,374	650	..	1,272
924	920	..	4	3,601	1,692	470	..	1,440
2,458	2,277	152	29	10,936	2,685	7,349	..	901
2,619	2,309	283	27	11,670	2,213	8,342	..	1,115
2,650	2,347	279	24	11,516	2,396	7,838	..	1,282
2,358	2,166	98	94	12,268	4,466	6,043	..	1,758
229	229	..	..	46,373	2	46,371	..	..
229	229	..	..	40,576	2	40,574	..	..
229	229	..	..	43,881	1	43,879	..	..
229	229	..	..	52,813	1	52,812	..	..
2,130	1,454	615	61	50,673	18,169	29,895	..	2,608
1,929	1,227	632	70	55,554	21,620	31,294	..	2,640
1,976	1,319	579	78	57,830	25,897	29,164	..	2,769
2,014	1,345	578	91	60,179	28,324	28,510	..	3,345
..	..	..	..	121	121	..	..	0
..	..	..	..	133	133	..	..	0
..	..	..	..	143	143	..	..	0
..	..	..	..	146	146	..	..	0
..	..	..	..	173	172	..	..	1
..	..	..	..	178	177	..	..	1
..	..	..	..	188	186	..	..	2
..	..	..	..	195	193	..	..	*2
..	..	..	..	265	265	..	..	..
..	..	..	..	*286	*286	..	..	..
..	..	..	..	*291	*291	..	..	..
..	..	..	..	*297	*297	..	..	..
*1	*1	..	..	242	232	..	..	10
*1	*1	..	..	*238	*228	..	..	10
*1	*1	..	..	*244	*234	..	..	10
*1	*1	..	..	*248	*238	..	..	*10

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
St. Lucia	2020	372	365	..	..	..	7	..
	2021	391	384	..	..	..	7	..
	2022	409	402	..	..	..	7	..
	2023	424	416	..	..	..	7	..
St. Vincent-Grenadines	2020	152	125	22	..	..	5	..
	2021	145	122	19	..	..	4	..
	2022	156	131	23	..	..	*3	..
	2023	163	138	23	..	..	*2	..
Suriname	2020	1,730	1,043	674	..	..	12	..
	2021	1,594	734	847	..	..	13	..
	2022	2,097	1,155	917	..	..	25	..
	2023	2,061	863	1,173	..	..	26	..
Trinidad and Tobago	2020	9,225	9,220	..	..	0	5	..
	2021	9,262	9,256	..	..	0	6	..
	2022	9,577	9,571	..	..	0	*6	..
	2023	9,516	9,510	..	..	0	*6	..
Turks and Caicos Islands	2020	*240	*239	..	..	..	1	..
	2021	*284	*280	..	..	..	4	..
	2022	*304	*300	..	..	..	*4	..
	2023	*306	*302	..	..	..	*4	..
United States Virgin Is.	2020	674	635	..	..	0	*39	..
	2021	720	675	..	..	..	*44	..
	2022	703	658	..	..	..	*46	..
	2023	699	650	..	..	..	*49	..
Uruguay	2020	13,557	3,526	4,094	..	5,476	462	..
	2021	15,953	5,206	5,273	..	4,991	483	..
	2022	14,759	3,787	5,686	..	4,783	503	..
	2023	12,877	4,104	3,516	..	4,765	492	..
Venezuela (Bolivar. Rep.)	2020	82,559	15,254	67,190	..	108	6	*1
	2021	84,818	16,858	67,845	..	107	6	*2
	2022	88,592	19,969	68,512	..	104	6	*2
	2023	82,801	*19,396	63,292	..	103	8	*2
Northern America	2020	4,913,225	2,771,629	695,260	921,345	377,579	123,403	24,008
	2021	5,023,167	2,861,277	657,031	904,180	420,107	156,443	24,129
	2022	5,155,189	2,891,458	677,331	890,908	478,744	192,824	23,924
	2023	5,086,780	2,837,791	630,179	897,123	466,448	224,618	30,621
Bermuda	2020	*590	*588	..	..	..	*2	..
	2021	579	575	..	..	..	4	..
	2022	578	564	..	..	..	15	..
	2023	569	554	..	..	..	15	..
Canada	2020	651,973	127,016	386,617	98,195	35,761	4,072	312
	2021	647,291	129,387	382,502	92,629	37,293	5,115	365
	2022	658,578	128,031	397,797	87,239	39,474	5,737	300
	2023	633,002	135,227	360,810	89,047	40,506	7,071	341
Greenland	2020	567	*136	431	..	0	0	..
	2021	570	*137	433	..	0	1	..
	2022	615	*147	467	..	0	1	..
	2023	621	*140	480	..	0	1	..
St. Pierre-Miquelon	2020	51	51	..	..	..	..	..
	2021	51	51	..	..	..	..	..
	2022	50	50	..	..	..	..	..
	2023	49	49	..	..	..	..	..
United States	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
	2022	4,495,368	2,762,666	279,067	803,669	439,270	187,071	23,624
	2023	4,452,539	2,701,821	268,889	808,076	425,941	217,532	30,280

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	372	365	..	..	7
*1	..	..	*1	390	384	..	..	6
1	..	..	1	409	402	..	..	7
1	..	..	1	423	416	..	..	6
1	..	..	1	151	125	22	..	4
*1	..	..	*1	144	122	19	..	2
*1	..	..	*1	154	131	23	..	1
*1	..	..	*1	162	138	23	..	1
1,246	572	674	..	484	471	..	..	12
1,322	475	847	..	272	259	..	..	13
1,650	721	917	12	447	435	..	..	13
1,559	373	1,173	13	502	489	..	..	13
76	76	..	..	9,149	9,144	..	..	5
76	76	..	..	9,185	9,180	..	..	6
78	78	..	..	9,499	9,493	..	..	*6
78	78	..	..	9,437	9,431	..	..	*6
..	..	..	..	*240	*239	..	..	1
..	..	..	..	*284	*280	..	..	4
..	..	..	..	*304	*300	..	..	*4
..	..	..	..	*306	*302	..	..	*4
*25	..	..	*25	649	635	..	..	14
*27	..	..	*27	693	675	..	..	17
*28	..	..	*28	675	658	..	..	18
*30	..	..	*30	669	650	..	..	19
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
1,589	1,531	..	58	13,170	2,256	5,686	..	5,228
2,076	2,002	..	74	10,801	2,102	3,516	..	5,183
942	849	..	92	81,618	14,405	67,190	..	23
942	849	..	92	83,876	16,009	67,845	..	22
942	849	..	92	87,651	19,120	68,512	..	19
*808	*716	..	92	81,993	*18,680	63,292	..	*21
260,611	194,349	29,010	37,253	4,652,613	2,577,280	666,251	921,345	487,738
260,002	189,829	27,628	42,545	4,763,166	2,671,448	629,403	904,180	558,134
270,538	195,144	26,245	49,149	4,884,651	2,696,314	651,086	890,908	646,344
281,415	195,864	27,858	57,694	4,805,365	2,641,927	602,322	897,123	663,993
*15	*13	..	*2	*575	*575	..	..	..
18	15	..	3	561	560	..	..	1
22	18	..	4	556	545	..	..	11
19	15	..	4	550	539	..	..	11
60,518	30,420	27,778	2,320	591,455	96,596	358,839	98,195	37,825
58,818	30,005	26,410	2,403	588,473	99,382	356,092	92,629	40,370
58,831	31,111	25,060	2,660	599,747	96,920	372,737	87,239	42,851
63,570	33,592	26,703	3,275	569,432	101,635	334,107	89,047	44,643
..	..	..	..	567	*136	431	..	0
..	..	..	..	570	*137	433	..	1
..	..	..	..	615	*147	467	..	1
..	..	..	..	621	*140	480	..	1
..	..	..	..	51	51	..	..	..
..	..	..	..	51	51	..	..	..
..	..	..	..	50	50	..	..	..
..	..	..	..	49	49	..	..	..
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
211,685	164,015	1,185	46,485	4,283,684	2,598,652	277,883	803,669	603,481
217,827	162,257	1,155	54,415	4,234,713	2,539,564	267,735	808,076	619,338

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Oceania	2020	321,821	227,560	41,499	..	22,760	21,560	8,442
	2021	322,217	216,445	41,624	..	27,227	28,332	8,589
	2022	329,078	207,434	45,509	..	32,029	35,453	8,653
	2023	332,365	201,030	45,305	..	34,711	42,889	8,429
American Samoa	2020	180	174	..	..	..	7	..
	2021	183	176	..	..	..	7	..
	2022	180	176	..	..	..	4	..
	2023	*183	*179	..	..	..	*4	..
Australia	2020	265,178	208,599	15,150	..	20,396	21,033	..
	2021	265,554	198,102	15,200	..	24,535	27,717	..
	2022	271,532	190,726	17,011	..	29,108	34,687	..
	2023	274,475	184,455	16,666	..	31,385	41,969	..
Cook Islands	2020	35	26	..	..	..	9	..
	2021	34	27	..	..	..	7	..
	2022	38	30	..	..	..	7	..
	2023	44	34	..	..	..	9	..
Fiji	2020	989	417	558	..	1	*13	..
	2021	949	389	548	..	0	12	..
	2022	1,093	483	598	..	0	*12	..
	2023	1,133	582	539	..	0	*12	..
French Polynesia	2020	668	464	159	..	0	44	..
	2021	672	482	142	..	0	47	..
	2022	680	436	194	..	0	50	..
	2023	698	492	150	..	0	56	..
Guam	2020	1,683	1,614	..	..	1	68	..
	2021	*1,712	*1,643	..	..	*1	*68	..
	2022	*1,703	*1,600	..	..	*1	*102	..
	2023	*1,595	*1,500	..	..	*1	*94	..
Kiribati	2020	*37	*32	..	..	..	*5	..
	2021	*38	*33	..	..	..	*5	..
	2022	*38	*33	..	..	..	*5	..
	2023	*38	*33	..	..	..	*5	..
Marshall Islands	2020	*82	*80	..	..	0	2	..
	2021	*82	*80	..	..	0	2	..
	2022	*81	*79	..	..	0	2	..
	2023	*80	*78	..	..	0	*2	..
Micronesia (Fed. States of)	2020	*92	*80	1	..	1	10	..
	2021	90	78	1	..	1	10	..
	2022	92	80	1	..	1	10	..
	2023	90	78	1	..	1	10	..
Nauru	2020	38	36	..	..	..	2	..
	2021	43	39	..	..	..	4	..
	2022	*46	*41	..	..	..	*5	..
	2023	*46	*41	..	..	..	*5	..
New Caledonia	2020	3,233	2,729	305	..	49	150	..
	2021	2,910	2,256	425	..	41	188	..
	2022	3,148	2,334	539	..	49	226	..
	2023	3,418	2,562	421	..	80	284	71
New Zealand	2020	44,530	9,454	24,264	..	2,305	161	8,346
	2021	44,613	9,035	24,232	..	2,642	210	8,493
	2022	44,663	6,683	26,274	..	2,865	284	8,557
	2023	44,662	6,223	26,572	..	3,238	370	8,259
Niue	2020	*4	*3	..	..	..	0	..
	2021	*4	*3	..	..	..	0	..
	2022	*4	*4	..	..	..	0	..
	2023	*4	*4	..	..	..	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
47,728	32,596	400	14,731	274,094	194,964	41,099	..	38,031
51,594	32,176	386	19,032	270,623	184,270	41,238	..	45,116
56,487	32,577	328	23,583	272,591	174,858	45,181	..	52,552
61,151	32,711	406	28,034	271,214	168,319	44,900	..	57,995
..	..	..	..	180	174	..	..	7
..	..	..	..	183	176	..	..	7
..	..	..	..	180	176	..	..	4
..	..	..	..	*183	*179	..	..	*4
41,364	26,957	95	14,312	223,814	181,643	15,054	..	27,117
45,306	26,680	81	18,545	220,248	171,423	15,118	..	33,707
49,924	26,843	75	23,006	221,608	163,883	16,936	..	40,789
54,042	26,669	101	27,272	220,433	157,787	16,565	..	46,081
6	1	..	5	29	25	..	..	4
6	3	..	3	28	23	..	..	4
6	4	..	3	31	27	..	..	4
*6	*4	..	3	37	31	..	..	7
67	67	..	..	922	350	558	..	*14
61	61	..	..	888	328	548	..	12
73	73	..	..	1,020	410	598	..	*12
76	76	..	..	1,057	506	539	..	*12
..	..	..	..	668	464	159	..	44
..	..	..	..	672	482	142	..	47
..	..	..	..	680	436	194	..	50
..	..	..	..	698	492	150	..	56
16	..	..	16	1,667	1,614	..	..	52
16	..	..	16	*1,695	*1,643	..	..	*52
17	..	..	17	*1,686	*1,600	..	..	*86
17	..	..	17	*1,578	*1,500	..	..	*78
*2	*2	..	..	*35	*30	..	..	*5
*2	*2	..	..	*36	*31	..	..	*5
*2	*2	..	..	*36	*31	..	..	*5
*2	*2	..	..	*36	*31	..	..	*5
..	..	..	..	*82	*80	..	..	2
..	..	..	..	*82	*80	..	..	2
..	..	..	..	*81	*79	..	..	2
..	..	..	..	*80	*78	..	..	*2
..	..	..	..	*92	*80	1	..	11
..	..	..	..	90	78	1	..	11
..	..	..	..	92	80	1	..	11
..	..	..	..	90	78	1	..	11
..	..	..	..	38	36	..	..	2
..	..	..	..	43	39	..	..	4
..	..	..	..	*46	*41	..	..	*5
..	..	..	..	*46	*41	..	..	*5
1,943	1,913	..	30	1,290	815	305	..	169
1,578	1,524	..	53	1,332	732	425	..	175
1,729	1,657	..	72	1,419	677	539	..	203
2,235	2,060	..	175	1,183	502	421	..	260
1,562	1,296	4	262	42,968	8,158	24,260	..	10,549
1,690	1,378	4	308	42,923	7,657	24,228	..	11,037
1,649	1,270	4	375	43,014	5,413	26,270	..	11,331
1,630	1,173	4	453	43,032	5,050	26,568	..	11,414
..	..	..	..	*4	*3	..	..	0
..	..	..	..	*4	*3	..	..	0
..	..	..	..	*4	*4	..	..	0
..	..	..	..	*4	*4	..	..	0

Table 33

Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Northern Mariana Islands	2020	*293	*290	..	..	..	*3	..
	2021	*305	*300	..	..	..	*5	..
	2022	*308	*303	..	..	..	*5	..
	2023	*311	*306	..	..	..	*5	..
Palau	2020	*96	*92	..	..	..	*4	..
	2021	*97	*93	..	..	..	*4	..
	2022	*97	*93	..	..	..	*4	..
	2023	*99	*95	..	..	..	*4	..
Papua New Guinea	2020	*4,207	*3,096	1,011	..	..	5	96
	2021	*4,456	*3,344	1,011	..	..	5	96
	2022	*4,887	*3,939	847	..	..	6	96
	2023	*4,956	*3,950	*900	..	..	*6	*100
Samoa	2020	172	107	41	..	0	24	..
	2021	171	94	55	..	0	21	..
	2022	172	114	35	..	0	22	..
	2023	202	137	46	..	0	20	..
Solomon Islands	2020	118	114	1	..	..	3	..
	2021	118	114	1	..	..	3	..
	2022	119	112	1	..	..	6	..
	2023	126	116	*1	..	..	*8	..
Tonga	2020	73	64	..	..	3	7	..
	2021	75	66	..	..	2	6	..
	2022	78	70	..	..	2	7	..
	2023	*85	*70	..	..	*2	*13	..
Tuvalu	2020	10	8	..	..	..	2	..
	2021	*10	*9	..	..	..	2	..
	2022	*10	*9	..	..	..	*2	..
	2023	*10	*9	..	..	..	*2	..
Vanuatu	2020	80	58	8	..	6	8	..
	2021	79	59	8	..	4	7	..
	2022	83	64	9	..	3	7	..
	2023	84	64	9	..	4	*7	..
Wallis and Futuna Is.	2020	*23	*22	0	..	..	0	..
	2021	*24	*23	0	..	..	0	..
	2022	*26	*25	0	..	..	0	..
	2023	*27	*24	0	..	..	*3	..

Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	*293	*290	..	..	*3
..	..	..	..	*305	*300	..	..	*5
..	..	..	..	*308	*303	..	..	*5
..	..	..	..	*311	*306	..	..	*5
*12	*12	..	..	*84	*80	..	..	*4
*12	*12	..	..	*85	*81	..	..	*4
*12	*12	..	..	*85	*81	..	..	*4
*12	*12	..	..	*87	*83	..	..	*4
*2,734	*2,333	300	100	1,473	763	711	..	0
*2,901	*2,500	300	101	1,555	844	711	..	0
*3,050	*2,700	249	101	1,838	1,239	598	..	1
*3,105	*2,700	*300	*105	*1,851	*1,250	*600	..	*1
0	..	..	0	172	107	41	..	24
0	..	..	0	171	94	55	..	22
0	..	..	0	172	114	35	..	22
0	..	..	0	202	137	46	..	20
17	15	1	2	100	99	..	..	1
18	15	1	2	100	99	..	..	1
20	15	1	4	99	97	..	..	1
*20	*15	*1	*4	105	101	..	..	*4
..	..	..	..	73	64	..	..	9
..	..	..	..	75	66	..	..	9
..	..	..	..	78	70	..	..	8
..	..	..	..	*85	*70	..	..	*15
..	..	..	..	10	8	..	..	2
..	..	..	..	*10	*9	..	..	2
..	..	..	..	*10	*9	..	..	*2
..	..	..	..	*10	*9	..	..	*2
4	..	..	4	76	58	8	..	9
4	..	..	4	75	59	8	..	7
4	..	..	4	79	64	9	..	5
*4	..	..	*4	80	64	9	..	7
..	..	..	..	*23	*22	0	..	0
..	..	..	..	*24	*23	0	..	0
..	..	..	..	*26	*25	0	..	0
..	..	..	..	*27	*24	0	..	*3