

**Table 32**

**Production of electricity - by type**

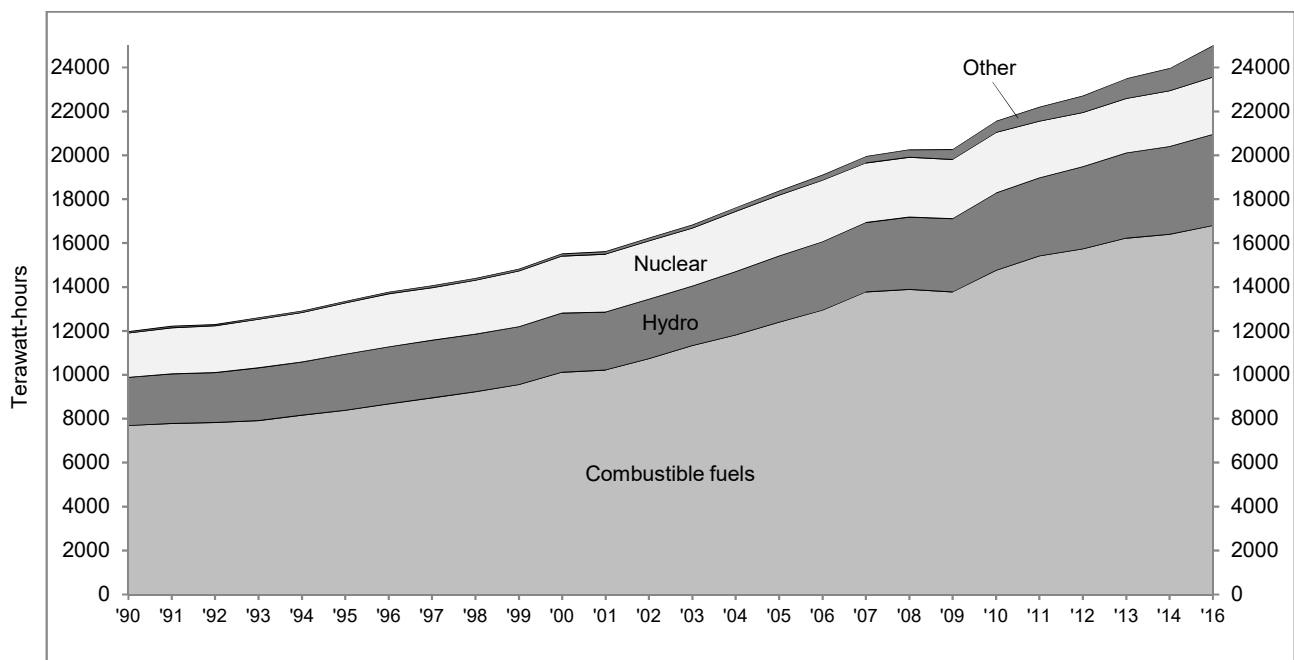
Gigawatt-hours

**Table Notes**

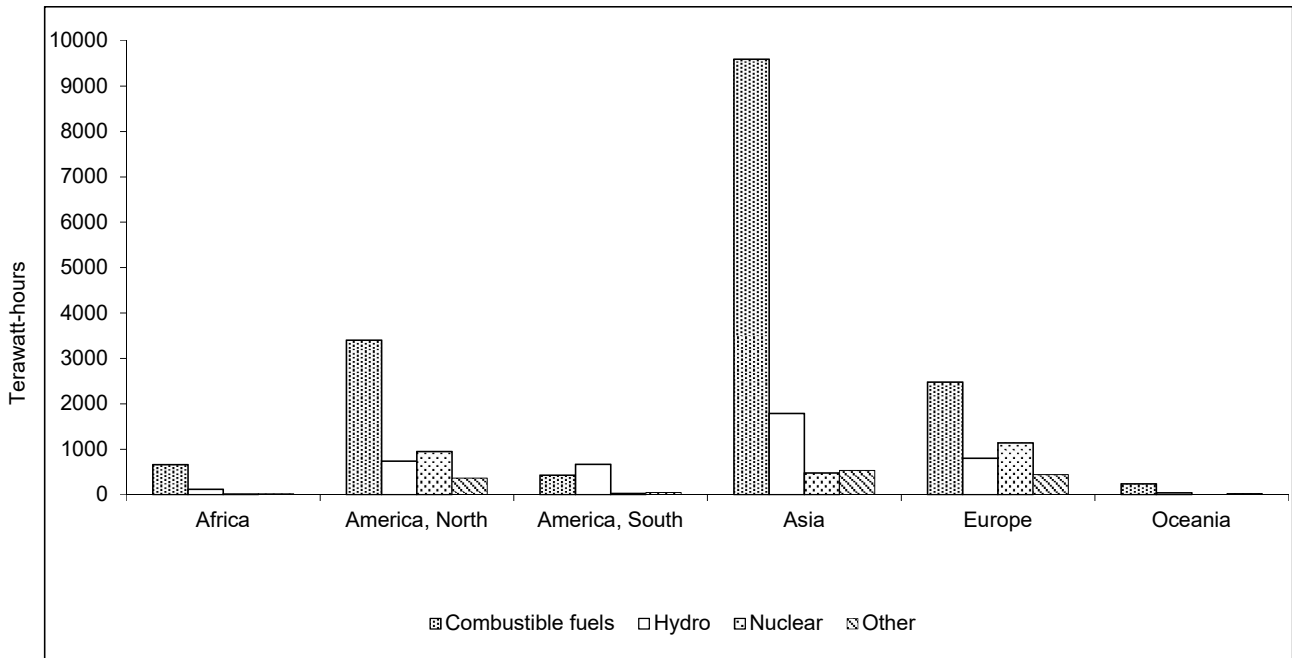
For this table, **Other** under total producers refers to geothermal, tide, wave, marine, electricity from chemical heat, and other non-specified sources. **Other** under autoproducers refers to nuclear (if any), wind, solar, tide, wave, marine, electricity from chemical heat, and other non-specified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

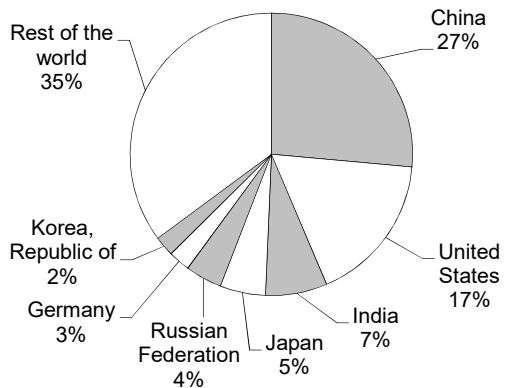
**Figure 75: World electricity generation by source, 1990-2016**



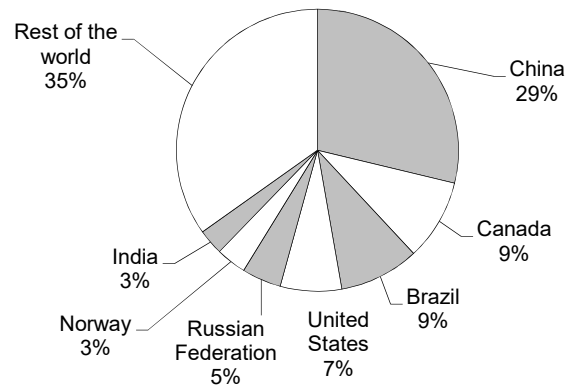
**Figure 76: World production of electricity by source and region, 2016**



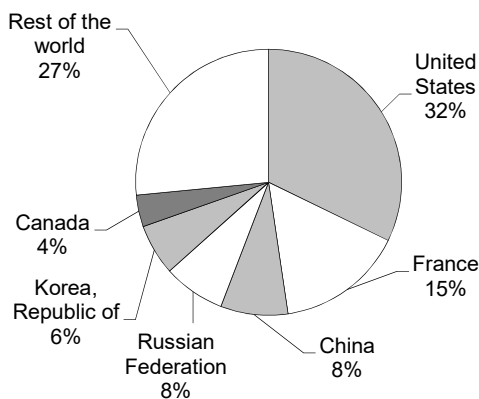
**Figure 77: Major countries producing electricity from combustible fuels, 2016**



**Figure 78: Major countries producing hydro electricity, 2016**



**Figure 79: Major countries producing nuclear electricity, 2016**



**Figure 80: Major countries producing electricity from other sources, 2016**

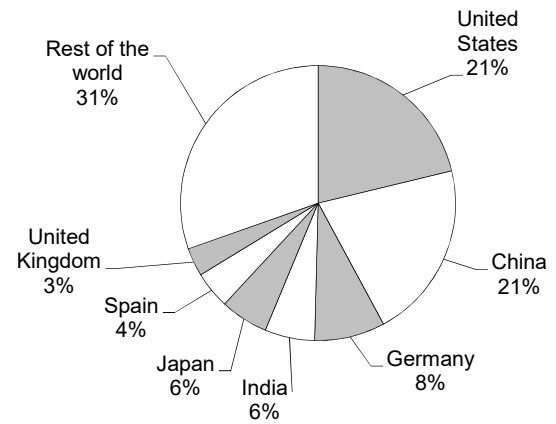


Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
World	2013	23,486,650	16,217,314	3,887,139	2,479,106	646,767	134,547	121,777
	2014	23,950,593	16,402,046	3,986,017	2,535,647	707,802	183,584	135,498
	2015	24,347,611	16,597,716	3,978,270	2,570,170	826,847	250,264	124,343
	2016	24,988,243	16,796,528	4,152,250	2,608,116	950,077	322,835	158,437
Africa	2013	746,006	602,365	122,131	14,106	3,542	485	3,376
	2014	774,994	622,052	127,384	13,794	5,597	1,718	4,449
	2015	793,437	640,511	123,637	12,237	7,860	3,120	6,072
	2016	814,254	658,685	119,952	15,026	10,343	4,190	6,057
Algeria	2013	59,890	59,560	330	..	..	..	..
	2014	64,242	63,988	254	..	..	..	..
	2015	68,798	68,576	145	..	19	58	..
	2016	70,839	70,661	145	..	19	14	..
Angola	2013	8,216	3,449	4,767	..	..	..	..
	2014	9,480	4,439	5,041	..	..	..	..
	2015	9,765	4,572	5,193	..	..	..	..
	2016	10,361	4,546	5,815	..	..	..	..
Benin	2013	92	92	..	..	..	..	..
	2014	239	239	..	..	..	..	..
	2015	342	323	14	..	..	5	..
	2016	355	335	15	..	..	5	..
Botswana	2013	761	760	..	..	..	1	..
	2014	2,364	2,363	..	..	..	1	..
	2015	*2,967	*2,966	..	..	..	1	..
	2016	2,688	2,686	..	..	..	2	..
Burkina Faso	2013	731	625	106	..	..	..	..
	2014	870	780	90	..	..	..	..
	2015	999	906	93	..	..	..	..
	2016	973	834	140	..	..	..	..
Burundi	2013	159	21	138	..	..	..	..
	2014	174	34	140	..	..	..	..
	2015	166	29	137	..	..	..	..
	2016	167	24	143	..	..	..	..
Cabo Verde	2013	404	321	..	..	76	7	..
	2014	409	338	..	..	66	5	..
	2015	421	336	..	..	78	6	..
	2016	444	361	..	..	77	6	..
Cameroon	2013	6,090	2,007	4,083	..	..	..	..
	2014	7,108	2,546	4,562	..	..	..	..
	2015	7,943	3,584	4,359	..	..	..	..
	2016	8,367	3,756	4,611	..	..	..	..
Central African Rep.	2013	139	1	138	..	..	..	..
	2014	171	1	170	..	..	..	..
	2015	*171	*1	*170	..	..	..	..
	2016	*172	*1	*171	..	..	..	..
Chad	2013	*225	*225	..	..	..	..	..
	2014	*225	*225	..	..	..	..	..
	2015	*228	*228	..	..	..	..	..
	2016	*230	*230	..	..	..	..	..
Comoros	2013	*56	*56	..	..	..	..	..
	2014	*53	*53	..	..	..	..	..
	2015	*38	*38	..	..	..	..	..
	2016	*50	*50	..	..	..	..	..
Congo	2013	1,709	738	971	..	..	..	..
	2014	1,740	788	952	..	..	..	..
	2015	1,734	809	925	..	..	..	..
	2016	1,753	794	959	..	..	..	..

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
1,882,951	1,699,389	94,270	89,292	21,603,699	14,517,925	3,792,869	2,479,106	813,799
1,913,249	1,706,409	94,351	112,488	22,037,344	14,695,636	3,891,666	2,535,647	914,395
2,123,856	1,882,239	100,465	141,152	22,223,755	14,715,477	3,877,805	2,570,170	1,060,303
2,099,310	1,850,341	83,166	165,803	22,888,934	14,946,187	4,069,084	2,608,116	1,265,547
36,349	33,827	851	1,670	709,657	568,538	121,280	14,106	5,733
38,571	33,739	1,057	3,775	736,422	588,313	126,327	13,794	7,989
44,252	37,370	627	6,255	749,185	603,141	123,010	12,237	10,796
48,768	40,112	546	8,110	765,487	618,573	119,407	15,026	12,481
3,742	3,742	..	..	56,148	55,818	330	..	..
3,742	3,742	..	..	60,500	60,246	254	..	..
4,135	4,135	..	..	64,663	64,441	145	..	77
4,764	4,764	..	..	66,075	65,897	145	..	33
473	473	..	..	7,743	2,976	4,767	..	..
546	546	..	..	8,934	3,893	5,041	..	..
562	562	..	..	9,203	4,010	5,193	..	..
596	596	..	..	9,765	3,950	5,815	..	..
19	19	..	..	73	73	..	..	..
112	112	..	..	127	127	..	..	..
112	112	..	..	230	211	14	..	5
116	116	..	..	239	219	15	..	5
..	..	..	..	761	760	..	..	1
..	..	..	..	2,364	2,363	..	..	1
..	..	..	..	*2,967	*2,966	..	..	1
..	..	..	..	2,688	2,686	..	..	2
..	..	..	..	731	625	106	..	..
..	..	..	..	870	780	90	..	..
..	..	..	..	999	906	93	..	..
..	..	..	..	973	834	140	..	..
..	..	..	..	159	21	138	..	..
..	..	..	..	174	34	140	..	..
..	..	..	..	166	29	137	..	..
..	..	..	..	167	24	143	..	..
1	1	..	..	404	321	..	..	83
1	1	..	..	408	338	..	..	71
*1	*1	..	..	420	336	..	..	85
*1	*1	..	..	443	361	..	..	83
1,637	1,637	..	..	4,453	370	4,083	..	..
2,133	2,133	..	..	4,975	413	4,562	..	..
3,205	3,205	..	..	4,738	379	4,359	..	..
3,368	3,368	..	..	4,999	388	4,611	..	..
..	..	..	..	139	1	138	..	..
..	..	..	..	171	1	170	..	..
..	..	..	..	*171	*1	*170	..	..
..	..	..	..	*172	*1	*171	..	..
..	..	..	..	*225	*225	..	..	..
..	..	..	..	*225	*225	..	..	..
..	..	..	..	*228	*228	..	..	..
..	..	..	..	*230	*230	..	..	..
..	..	..	..	*56	*56	..	..	..
..	..	..	..	*53	*53	..	..	..
..	..	..	..	*38	*38	..	..	..
..	..	..	..	*50	*50	..	..	..
738	738	..	..	971	..	971	..	..
788	788	..	..	952	..	952	..	..
809	809	..	..	925	..	925	..	..
794	794	..	..	959	..	959	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Côte d'Ivoire	2013	7,650	6,044	1,606	..	..	..	..
	2014	8,286	6,373	1,913	..	..	..	..
	2015	8,711	7,359	1,352	..	..	..	..
	2016	10,253	8,724	1,529	..	..	..	..
Dem. Rep. of the Congo	2013	8,258	27	8,231	..	..	..	..
	2014	8,850	30	8,820	..	..	..	..
	2015	8,953	37	8,916	..	..	..	..
	2016	9,135	36	9,099	..	..	..	..
Djibouti	2013	402	402	..	..	..	..	..
	2014	402	402	..	..	..	..	..
	2015	402	402	..	..	..	..	..
	2016	402	402	..	..	..	..	..
Egypt	2013	168,050	153,252	13,352	..	1,332	114	..
	2014	180,377	164,864	13,822	..	1,444	247	..
	2015	187,479	172,449	13,432	..	1,345	253	..
	2016	199,927	184,241	13,460	..	2,058	168	..
Equatorial Guinea	2013	726	599	127	..	..	..	..
	2014	833	633	*200	..	..	..	..
	2015	848	648	*200	..	..	..	..
	2016	*850	*650	*200	..	..	..	..
Eritrea	2013	363	361	..	..	..	2	..
	2014	388	386	..	..	..	2	..
	2015	406	404	..	..	..	2	..
	2016	421	419	..	..	..	2	..
Eswatini	2013	*590	*350	240	..	..	..	..
	2014	567	265	302	..	..	..	..
	2015	*496	*265	231	..	..	..	..
	2016	388	265	123	..	..	..	..
Ethiopia	2013	8,719	8	8,338	..	356	..	17
	2014	9,534	3	9,013	..	499	..	19
	2015	10,437	4	9,674	..	759	..	..
	2016	11,226	4	10,406	..	816	..	..
Gabon	2013	2,101	1,163	936	..	..	2	..
	2014	1,999	1,203	794	..	..	2	..
	2015	2,128	1,208	918	..	..	2	..
	2016	2,336	1,381	953	..	..	2	..
Gambia	2013	*261	*261	..	..	..	..	..
	2014	*281	*281	..	..	..	..	..
	2015	*297	*297	..	..	..	..	..
	2016	*314	*314	..	..	..	..	..
Ghana	2013	13,050	4,814	8,233	..	..	3	..
	2014	13,143	4,752	8,387	..	..	4	..
	2015	11,672	5,824	5,845	..	..	3	..
	2016	13,203	7,615	5,561	..	..	27	..
Guinea	2013	654	172	482	..	..	..	..
	2014	712	287	426	..	..	..	..
	2015	1,118	238	881	..	..	..	..
	2016	1,596	512	1,084	..	..	..	..
Guinea-Bissau	2013	*35	*35	..	..	..	..	..
	2014	*35	*35	..	..	..	..	..
	2015	*36	*36	..	..	..	..	..
	2016	*38	*38	..	..	..	..	..
Kenya	2013	8,448	2,218	4,435	..	15	..	1,781
	2014	9,139	2,635	3,569	..	17	..	2,917
	2015	9,515	1,462	*3,472	..	60	..	4,521
	2016	9,971	1,471	3,960	..	56	..	4,484

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
70	70	..	..	7,580	5,974	1,606	..	..
72	72	..	..	8,214	6,301	1,913	..	..
105	105	..	..	8,606	7,254	1,352	..	..
173	173	..	..	10,080	8,551	1,529	..	..
18	18	0	..	8,240	9	8,231	..	..
26	26	0	..	8,824	4	8,820	..	..
25	25	0	..	8,928	12	8,916	..	..
24	24	..	..	9,111	12	9,099	..	..
..	..	..	..	402	402	..	..	..
..	..	..	..	402	402	..	..	..
..	..	..	..	402	402	..	..	..
..	..	..	..	402	402	..	..	..
5,502	5,502	..	..	162,548	147,750	13,352	..	1,446
*5,502	*5,502	..	..	174,875	159,362	13,822	..	1,691
*5,502	*5,502	..	..	181,977	166,947	13,432	..	1,598
*5,600	*5,600	..	..	194,327	178,641	13,460	..	2,226
..	..	..	..	726	599	127	..	..
..	..	..	..	833	633	*200	..	..
..	..	..	..	848	648	*200	..	..
..	..	..	..	*850	*650	*200	..	..
11	11	..	..	352	350	..	..	2
11	11	..	..	377	375	..	..	2
11	11	..	..	395	393	..	..	2
11	11	..	..	410	408	..	..	2
*342	*342	..	..	248	*8	240	..	..
265	265	..	..	302	0	302	..	..
*265	*265	..	..	231	0	231	..	..
265	265	..	..	123	0	123	..	..
..	..	..	..	8,719	8	8,338	..	373
..	..	..	..	9,534	3	9,013	..	518
..	..	..	..	10,437	4	9,674	..	759
..	..	..	..	11,226	4	10,406	..	816
210	208	..	2	1,891	955	936	..	..
215	213	..	2	1,784	990	794	..	..
221	219	..	2	1,907	989	918	..	..
224	222	..	2	2,112	1,159	953	..	..
*31	*31	..	..	*230	*230	..	..	..
*31	*31	..	..	*250	*250	..	..	..
*31	*31	..	..	*266	*266	..	..	..
*32	*32	..	..	*282	*282	..	..	..
*180	*180	..	..	12,870	4,634	8,233	..	3
*180	*180	..	..	12,963	4,572	8,387	..	4
*180	*180	..	..	11,492	5,644	5,845	..	3
*180	*180	..	..	13,023	7,435	5,561	..	27
28	28	..	..	627	144	482	..	..
161	161	..	..	552	126	426	..	..
174	174	..	..	945	64	881	..	..
478	478	..	..	1,117	34	1,084	..	..
*8	*8	..	..	*27	*27	..	..	..
*8	*8	..	..	*27	*27	..	..	..
*8	*8	..	..	*28	*28	..	..	..
*8	*8	..	..	*30	*30	..	..	..
..	..	..	..	8,448	2,218	4,435	..	1,796
..	..	..	..	9,139	2,635	3,569	..	2,934
..	..	..	..	9,515	1,462	*3,472	..	4,580
..	..	..	..	9,971	1,471	3,960	..	4,541

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Lesotho	2013	515	..	515	..	..	..	..
	2014	515	..	515	..	..	..	..
	2015	532	..	532	..	..	..	..
	2016	508	..	508	..	..	..	..
Liberia	2013	*340	*300	*40	..	..	..	..
	2014	*340	*300	*40	..	..	..	..
	2015	*350	*310	*40	..	..	..	..
	2016	*440	*400	*40	..	..	..	..
Libya	2013	37,921	37,913	..	..	..	8	..
	2014	37,739	37,731	..	..	..	8	..
	2015	37,721	37,713	..	..	..	8	..
	2016	36,430	36,422	..	..	..	8	..
Madagascar	2013	1,593	784	809	..	..	0	..
	2014	1,658	774	884	..	..	0	..
	2015	1,712	777	935	..	..	0	..
	2016	1,822	935	887	..	..	1	..
Malawi	2013	*2,046	*181	*1,865	..	..	..	..
	2014	*2,151	*181	*1,970	..	..	..	..
	2015	*2,136	*183	*1,953	..	..	..	..
	2016	*2,160	*183	*1,977	..	..	..	..
Mali	2013	1,434	475	959	..	..	..	..
	2014	1,626	*629	997	..	..	..	..
	2015	1,772	*758	1,012	..	..	2	..
	2016	1,965	*861	1,102	..	..	2	..
Mauritania	2013	812	773	..	..	13	26	..
	2014	851	808	..	..	13	30	..
	2015	1,002	868	..	..	104	30	..
	2016	1,006	875	..	..	111	21	..
Mauritius	2013	2,882	2,781	95	..	4	3	..
	2014	2,936	2,817	91	..	3	25	..
	2015	2,996	2,845	122	..	3	26	..
	2016	3,028	2,894	100	..	4	30	..
Mayotte	2013	285	268	..	..	..	17	..
	2014	299	283	..	..	..	17	..
	2015	316	299	..	..	..	17	..
	2016	328	311	..	..	..	17	..
Morocco	2013	28,242	22,594	2,990	..	1,356	..	1,302
	2014	29,384	24,125	2,033	..	1,924	..	1,302
	2015	31,217	25,108	2,282	..	2,519	6	1,302
	2016	32,141	25,776	1,662	..	3,000	401	1,302
Mozambique	2013	15,645	840	14,805	..	..	..	..
	2014	17,739	1,379	16,359	..	..	1	..
	2015	19,641	2,547	17,093	..	..	1	..
	2016	18,697	3,103	15,592	..	..	2	..
Namibia	2013	1,712	72	1,640	..	..	..	..
	2014	1,498	13	1,485	..	..	..	..
	2015	1,536	34	1,502	..	..	..	..
	2016	1,421	62	1,359	..	..	..	..
Niger	2013	438	438	..	..	..	0	..
	2014	499	499	..	..	..	0	..
	2015	526	526	..	..	..	0	..
	2016	526	526	..	..	..	0	..
Nigeria	2013	28,883	23,557	5,326	..	..	..	..
	2014	30,390	25,044	5,346	..	..	..	..
	2015	31,426	25,708	5,718	..	..	..	..
	2016	30,897	25,311	5,586	..	..	..	..

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	515	..	515	..	..
..	..	..	..	515	..	515	..	..
..	..	..	..	532	..	532	..	..
..	..	..	..	508	..	508	..	..
*200	*200	..	..	*140	*100	*40	..	..
*200	*200	..	..	*140	*100	*40	..	..
*205	*205	..	..	*145	*105	*40	..	..
*265	*265	..	..	*175	*135	*40	..	..
..	..	..	..	37,921	37,913	..	..	8
..	..	..	..	37,739	37,731	..	..	8
..	..	..	..	37,721	37,713	..	..	8
..	..	..	..	36,430	36,422	..	..	8
*170	*170	..	..	1,423	614	809	..	0
*170	*170	..	..	1,488	604	884	..	0
*170	*170	..	..	1,542	607	935	..	0
*170	*170	..	..	1,652	765	887	..	1
*181	*176	*5	..	*1,865	*5	*1,860	..	..
*181	*176	*5	..	*1,970	*5	*1,965	..	..
*183	*178	*5	..	*1,953	*5	*1,948	..	..
*183	*178	*5	..	*1,977	*5	*1,972	..	..
52	52	..	..	1,382	423	959	..	..
*52	*52	..	..	1,574	*577	997	..	..
*60	*60	..	..	1,712	*698	1,012	..	2
*60	*60	..	..	1,905	*801	1,102	..	2
320	320	..	..	492	453	..	..	39
326	326	..	..	525	482	..	..	43
*340	*340	..	..	662	528	..	..	134
360	360	..	..	646	515	..	..	132
1,706	1,703	..	3	1,176	1,078	95	..	4
1,761	1,736	..	25	1,175	1,081	91	..	3
1,738	1,712	..	26	1,258	1,133	122	..	3
1,813	1,782	..	30	1,215	1,112	100	..	4
..	..	..	..	285	268	..	..	17
..	..	..	..	299	283	..	..	17
..	..	..	..	316	299	..	..	17
..	..	..	..	328	311	..	..	17
1,413	111	..	1,302	26,829	22,483	2,990	..	1,356
1,439	137	..	1,302	27,945	23,988	2,033	..	1,924
1,362	60	..	1,302	29,855	25,048	2,282	..	2,525
1,302	..	..	1,302	30,839	25,776	1,662	..	3,401
263	..	263	..	15,382	840	14,542	..	..
468	..	467	1	17,271	1,379	15,892	..	..
170	54	114	1	19,471	2,493	16,978	..	..
77	58	17	2	18,620	3,045	15,575	..	..
..	..	..	..	1,712	72	1,640	..	..
..	..	..	..	1,498	13	1,485	..	..
..	..	..	..	1,536	34	1,502	..	..
..	..	..	..	1,421	62	1,359	..	..
39	39	..	0	399	399	..	..	..
*112	*112	..	0	387	387	..	..	..
114	114	..	0	412	412	..	..	..
120	120	..	0	406	406	..	..	..
5,257	5,148	109	..	23,626	18,409	5,217	..	..
5,582	5,473	109	..	24,808	19,571	5,237	..	..
5,735	5,618	117	..	25,691	20,090	5,601	..	..
5,645	5,531	114	..	25,252	19,780	5,472	..	..



Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Réunion	2013	2,813	2,017	557	..	15	224	..
	2014	2,857	2,180	426	..	16	236	..
	2015	2,891	2,135	496	..	16	244	..
	2016	2,944	2,201	465	..	19	260	..
Rwanda	2013	413	265	148	..	..	0	..
	2014	476	266	205	..	..	5	..
	2015	524	226	284	..	..	14	..
	2016	634	342	278	..	..	14	..
Sao Tome and Principe	2013	71	65	6	..	..	..	..
	2014	*77	*70	8	..	..	..	..
	2015	*81	*75	7	..	..	..	..
	2016	86	79	*7	..	..	..	..
Senegal	2013	3,253	3,185	..	..	..	4	64
	2014	3,575	3,542	..	..	..	4	29
	2015	3,818	3,779	..	..	..	4	35
	2016	4,097	4,044	..	..	..	6	47
Seychelles	2013	354	347	..	..	7	..	..
	2014	363	355	..	..	7	1	..
	2015	378	369	..	..	7	2	..
	2016	*409	*391	..	..	*8	*10	..
Sierra Leone	2013	164	59	105	..	..	..	..
	2014	181	63	118	..	..	..	..
	2015	*205	*80	*125	..	..	..	..
	2016	*208	*81	*127	..	..	..	..
Somalia	2013	350	350	..	..	..	..	..
	2014	350	350	..	..	..	..	..
	2015	350	350	..	..	..	..	..
	2016	350	350	..	..	..	..	..
South Africa	2013	256,073	237,871	4,040	14,106	10	46	..
	2014	252,578	232,516	4,082	13,794	1,100	1,086	..
	2015	249,655	228,825	3,720	12,237	2,500	2,373	..
	2016	252,747	226,927	3,994	15,026	3,700	3,100	..
South Sudan	2013	471	470	..	..	..	1	..
	2014	489	488	..	..	..	1	..
	2015	577	576	..	..	..	1	..
	2016	439	437	..	..	..	2	..
St. Helena and Depend.	2013	11	10	..	..	1	0	..
	2014	10	9	..	..	1	0	..
	2015	10	8	..	..	2	0	..
	2016	11	8	..	..	2	1	..
Sudan	2013	10,607	2,290	8,317	..	..	..	..
	2014	11,376	2,463	8,913	..	..	..	..
	2015	13,047	4,627	8,420	..	..	..	..
	2016	14,429	6,378	8,051	..	..	..	..
Togo	2013	360	286	74	..	..	..	..
	2014	358	233	125	..	..	..	..
	2015	444	383	61	..	..	..	..
	2016	950	742	208	..	..	..	..
Tunisia	2013	18,382	17,740	60	..	358	12	212
	2014	19,024	18,254	56	..	507	25	182
	2015	19,676	18,904	69	..	448	41	214
	2016	19,808	19,002	45	..	474	63	224
Uganda	2013	3,416	128	3,289	..	..	..	..
	2014	3,551	307	3,244	..	..	..	..
	2015	3,473	245	3,228	..	..	..	..
	2016	3,535	244	3,287	..	..	4	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	2,813	2,017	557	..	239
..	..	..	..	2,857	2,180	426	..	252
..	..	..	..	2,891	2,135	496	..	260
..	..	..	..	2,944	2,201	465	..	278
..	..	..	..	413	265	148	..	0
..	..	..	..	476	266	205	..	5
..	..	..	..	524	226	284	..	14
..	..	..	..	634	342	278	..	14
..	..	..	..	71	65	6	..	..
..	..	..	..	*77	*70	8	..	..
..	..	..	..	*81	*75	7	..	..
..	..	..	..	86	79	*7	..	..
523	455	..	68	2,730	2,730	..	..	..
666	633	..	33	2,909	2,909	..	..	..
713	674	..	39	3,105	3,105	..	..	..
858	805	..	53	3,239	3,239	..	..	..
..	..	..	..	354	347	..	..	7
..	..	..	..	363	355	..	..	8
..	..	..	..	378	369	..	..	9
..	..	..	..	*409	*391	..	..	*18
..	..	..	..	164	59	105	..	..
..	..	..	..	181	63	118	..	..
..	..	..	..	*205	*80	*125	..	..
..	..	..	..	*208	*81	*127	..	..
..	..	..	..	350	350	..	..	..
..	..	..	..	350	350	..	..	..
..	..	..	..	350	350	..	..	..
..	..	..	..	350	350	..	..	..
11,222	11,043	123	56	244,851	226,828	3,917	14,106	..
12,177	9,867	124	2,186	240,401	222,649	3,958	13,794	..
16,264	11,543	113	4,608	233,391	217,282	3,607	12,237	265
19,074	12,545	121	6,408	233,673	214,382	3,873	15,026	392
246	245	..	1	225	225	..	..	0
255	254	..	1	234	234	..	..	0
332	331	..	1	245	245	..	..	0
252	251	..	1	187	186	..	..	1
..	..	..	..	11	10	..	..	1
..	..	..	..	10	9	..	..	1
..	..	..	..	10	8	..	..	2
..	..	..	..	11	8	..	..	3
*320	*320	..	..	10,287	1,970	8,317	..	..
..	..	..	..	11,376	2,463	8,913	..	..
..	..	..	..	13,047	4,627	8,420	..	..
..	..	..	..	14,429	6,378	8,051	..	..
7	7	..	..	353	279	74	..	..
11	11	..	..	347	222	125	..	..
12	12	..	..	432	371	61	..	..
13	13	..	..	937	729	208	..	..
745	521	..	224	17,637	17,219	60	..	358
767	560	..	207	18,257	17,694	56	..	507
985	730	..	255	18,691	18,174	69	..	448
1,174	887	..	287	18,634	18,115	45	..	474
477	125	351	..	2,939	2	2,937	..	..
566	214	353	..	2,985	93	2,891	..	..
449	171	278	..	3,024	74	2,950	..	..
466	178	289	..	3,069	66	2,999	..	4

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
United Rep. of Tanzania	2013	5,941	4,209	1,717	..	..	15	..
	2014	6,219	3,611	2,590	..	..	18	..
	2015	6,394	4,265	2,108	..	..	21	..
	2016	6,998	4,607	2,366	..	..	25	..
Zambia	2013	13,301	20	13,281	..	..	..	..
	2014	14,455	413	14,042	..	..	..	..
	2015	13,440	405	13,035	..	..	..	..
	2016	11,695	670	11,025	..	..	..	..
Zimbabwe	2013	9,499	4,517	4,982	..	..	..	..
	2014	9,812	4,410	5,402	..	..	..	..
	2015	9,522	4,583	4,939	..	..	..	..
	2016	7,090	4,175	2,915	..	..	..	..
<b>America, North</b>	<b>2013</b>	<b>5,397,267</b>	<b>3,478,243</b>	<b>734,649</b>	<b>937,243</b>	<b>194,024</b>	<b>17,721</b>	<b>35,387</b>
	<b>2014</b>	<b>5,439,168</b>	<b>3,485,328</b>	<b>726,678</b>	<b>947,541</b>	<b>215,808</b>	<b>28,398</b>	<b>35,416</b>
	<b>2015</b>	<b>5,436,447</b>	<b>3,477,774</b>	<b>708,373</b>	<b>943,674</b>	<b>232,246</b>	<b>39,708</b>	<b>34,673</b>
	<b>2016</b>	<b>5,452,655</b>	<b>3,401,175</b>	<b>735,104</b>	<b>951,628</b>	<b>275,049</b>	<b>55,223</b>	<b>34,476</b>
Anguilla	2013	89	89	..	..	..	..	..
	2014	90	90	..	..	..	..	..
	2015	94	94	..	..	..	..	..
	2016	103	103	..	..	..	..	..
Antigua and Barbuda	2013	*330	*330	..	..	..	..	..
	2014	*336	*336	..	..	..	..	..
	2015	*340	*340	..	..	..	..	..
	2016	*344	*344	..	..	..	..	..
Aruba	2013	*928	*790	..	..	*138	..	..
	2014	*917	*778	..	..	*138	..	..
	2015	*932	*793	..	..	*138	..	..
	2016	*947	*808	..	..	*138	..	..
Bahamas	2013	1,885	1,885	..	..	..	..	..
	2014	1,922	1,922	..	..	..	..	..
	2015	1,998	1,998	..	..	..	..	..
	2016	1,966	1,966	..	..	..	..	..
Barbados	2013	1,016	1,016	..	..	..	..	..
	2014	1,021	1,021	..	..	..	..	..
	2015	1,029	1,029	..	..	..	..	..
	2016	1,045	1,045	..	..	..	..	..
Belize	2013	*371	*164	*207	..	..	..	..
	2014	*404	*199	*205	..	..	..	..
	2015	*417	*228	*189	..	..	..	..
	2016	*414	*227	*187	..	..	..	..
Bermuda	2013	677	677	..	..	..	..	..
	2014	661	661	..	..	..	..	..
	2015	674	674	..	..	..	..	..
	2016	665	665	..	..	..	..	..
Bonaire, St Eustatius, Saba	2013	116	80	..	..	37	..	..
	2014	120	79	..	..	41	..	..
	2015	127	87	..	..	40	..	..
	2016	133	97	..	..	36	..	..
British Virgin Islands	2013	198	197	..	..	*1	0	..
	2014	199	197	..	..	*1	*1	..
	2015	*200	*198	..	..	*1	*1	..
	2016	*202	*200	..	..	*1	*1	..
Canada	2013	659,434	142,191	391,861	103,439	17,963	1,499	2,481
	2014	661,667	144,878	382,574	107,280	22,538	2,120	2,277
	2015	668,146	154,549	382,293	101,809	26,446	2,895	154
	2016	667,438	145,136	387,208	101,143	30,766	3,031	154

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
15	..	..	15	5,926	4,209	1,717	..	..
18	..	..	18	6,201	3,611	2,590	..	..
21	..	..	21	6,373	4,265	2,108	..	..
25	..	..	25	6,973	4,607	2,366	..	..
..	..	..	..	13,301	20	13,281	..	..
..	..	..	..	14,455	413	14,042	..	..
..	..	..	..	13,440	405	13,035	..	..
..	..	..	..	11,695	670	11,025	..	..
184	184	..	..	9,315	4,333	4,982	..	..
29	29	..	..	9,783	4,381	5,402	..	..
54	54	..	..	9,468	4,529	4,939	..	..
278	278	..	..	6,812	3,897	2,915	..	..
<b>284,998</b>	<b>234,113</b>	<b>36,731</b>	<b>14,154</b>	<b>5,112,269</b>	<b>3,244,130</b>	<b>697,918</b>	<b>937,243</b>	<b>232,979</b>
<b>288,936</b>	<b>236,722</b>	<b>34,498</b>	<b>17,716</b>	<b>5,150,232</b>	<b>3,248,606</b>	<b>692,180</b>	<b>947,541</b>	<b>261,905</b>
<b>310,114</b>	<b>248,414</b>	<b>37,734</b>	<b>23,966</b>	<b>5,126,334</b>	<b>3,229,360</b>	<b>670,639</b>	<b>943,674</b>	<b>282,661</b>
<b>313,735</b>	<b>249,137</b>	<b>34,973</b>	<b>29,625</b>	<b>5,138,919</b>	<b>3,152,038</b>	<b>700,131</b>	<b>951,628</b>	<b>335,123</b>
..	..	..	..	89	89	..	..	..
..	..	..	..	90	90	..	..	..
..	..	..	..	94	94	..	..	..
..	..	..	..	103	103	..	..	..
*1	*1	..	..	*329	*329	..	..	..
*1	*1	..	..	*335	*335	..	..	..
*1	*1	..	..	*339	*339	..	..	..
*1	*1	..	..	*343	*343	..	..	..
..	..	..	..	*928	*790	..	..	*138
..	..	..	..	*917	*778	..	..	*138
..	..	..	..	*932	*793	..	..	*138
..	..	..	..	*947	*808	..	..	*138
74	74	..	..	1,811	1,811	..	..	..
*74	*74	..	..	1,848	1,848	..	..	..
*76	*76	..	..	1,922	1,922	..	..	..
*76	*76	..	..	1,890	1,890	..	..	..
*3	*3	..	..	1,013	1,013	..	..	..
*14	*14	..	..	1,007	1,007	..	..	..
17	17	..	..	1,012	1,012	..	..	..
18	18	..	..	1,028	1,028	..	..	..
63	63	..	..	*308	*101	*207	..	..
69	69	..	..	*335	*130	*205	..	..
71	71	..	..	*346	*157	*189	..	..
70	70	..	..	*343	*156	*187	..	..
*12	*12	..	..	665	665	..	..	..
*12	*12	..	..	649	649	..	..	..
*12	*12	..	..	662	662	..	..	..
*12	*12	..	..	653	653	..	..	..
..	..	..	..	116	80	..	..	37
..	..	..	..	120	79	..	..	41
..	..	..	..	127	87	..	..	40
..	..	..	..	133	97	..	..	36
..	..	..	..	198	197	..	..	*1
..	..	..	..	199	197	..	..	*2
..	..	..	..	*200	*198	..	..	*2
..	..	..	..	*202	*200	..	..	*2
57,959	26,695	31,246	18	601,475	115,496	360,615	103,439	21,925
61,420	30,246	31,046	128	600,247	114,632	351,528	107,280	26,807
72,609	38,552	33,671	386	595,537	115,997	348,622	101,809	29,109
66,851	34,797	30,926	1,128	600,587	110,339	356,282	101,143	32,823

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Cayman Islands	2013	615	615	..	..	..	..	..
	2014	621	621	..	..	..	..	..
	2015	640	640	..	..	..	..	..
	2016	666	666	..	..	..	..	..
Costa Rica	2013	10,234	1,379	6,851	..	485	2	1,517
	2014	10,216	1,224	6,717	..	735	2	1,538
	2015	10,812	287	8,067	..	1,080	3	1,376
	2016	10,880	365	8,026	..	1,147	2	1,340
Cuba	2013	19,140	19,012	127	..	..	..	..
	2014	19,366	19,262	104	..	..	..	..
	2015	20,288	20,240	48	..	..	..	..
	2016	20,459	20,394	64	..	..	..	..
Curaçao	2013	904	872	..	..	32	..	..
	2014	891	859	..	..	32	..	..
	2015	862	830	..	..	32	..	..
	2016	884	652	..	..	200	32	..
Dominica	2013	144	107	37	..	..	..	..
	2014	147	117	31	..	..	..	..
	2015	151	127	24	..	..	..	..
	2016	156	120	36	..	..	..	..
Dominican Republic	2013	17,649	15,514	1,875	..	243	9	8
	2014	17,168	15,624	1,271	..	243	18	11
	2015	17,923	16,641	945	..	290	32	15
	2016	18,691	16,758	1,519	..	323	75	17
El Salvador	2013	6,272	2,922	1,790	..	..	..	1,560
	2014	6,223	2,947	1,718	..	..	..	1,558
	2015	5,989	3,096	1,353	..	..	..	1,540
	2016	5,984	3,147	1,261	..	..	..	1,576
Greenland	2013	473	95	378	..	..	..	..
	2014	488	92	396	..	..	..	..
	2015	520	97	423	..	..	..	..
	2016	484	83	401	..	..	..	..
Grenada	2013	197	197	..	..	..	..	..
	2014	200	200	..	..	..	..	..
	2015	207	207	..	..	..	..	..
	2016	219	219	..	..	..	..	..
Guadeloupe	2013	1,729	1,474	19	..	57	99	81
	2014	1,734	1,475	27	..	54	103	75
	2015	1,781	1,523	21	..	52	102	83
	2016	1,791	1,526	34	..	53	94	84
Guatemala	2013	10,125	5,254	4,659	..	..	..	212
	2014	10,638	5,531	4,853	..	..	7	247
	2015	11,157	6,769	3,880	..	107	149	252
	2016	11,789	7,122	3,971	..	215	192	289
Haiti	2013	1,055	914	141	..	..	..	..
	2014	1,033	943	90	..	..	..	..
	2015	1,038	955	83	..	..	..	..
	2016	1,084	1,013	71	..	..	..	..
Honduras	2013	7,499	4,450	2,739	..	310	..	..
	2014	8,398	5,398	2,602	..	398	..	..
	2015	8,965	5,543	2,340	..	665	417	..
	2016	8,783	4,978	2,350	..	574	881	..
Jamaica	2013	4,256	4,017	124	..	115	..	..
	2014	4,123	3,869	135	..	119	..	..
	2015	4,122	3,868	129	..	125	..	..
	2016	4,230	3,908	119	..	190	13	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	615	615	..	..	..
..	..	..	..	621	621	..	..	..
..	..	..	..	640	640	..	..	..
..	..	..	..	666	666	..	..	..
2,157	183	1,361	613	8,077	1,196	5,490	..	1,391
2,359	181	1,338	840	7,858	1,043	5,379	..	1,436
3,014	179	1,810	1,024	7,797	108	6,256	..	1,433
2,851	172	1,610	1,070	8,028	193	6,416	..	1,420
877	877	..	..	18,263	18,135	127	..	..
838	838	..	..	18,529	18,424	104	..	..
898	898	..	..	19,390	19,342	48	..	..
949	949	..	..	19,509	19,445	64	..	..
479	479	..	..	425	393	..	..	32
472	472	..	..	419	387	..	..	32
457	457	..	..	405	373	..	..	32
468	468	..	..	416	184	..	..	232
*43	*43	..	..	101	64	37	..	..
*45	*45	..	..	102	72	31	..	..
*44	*44	..	..	107	83	24	..	..
*44	*44	..	..	112	75	36	..	..
2,195	2,175	3	18	15,454	13,339	1,872	..	243
2,004	1,971	4	29	15,164	13,654	1,267	..	243
1,976	1,923	5	48	15,948	14,718	940	..	290
1,963	1,889	6	68	16,728	14,869	1,513	..	347
660	660	..	..	5,612	2,262	1,790	..	1,560
654	654	..	..	5,569	2,293	1,718	..	1,558
705	705	..	..	5,284	2,391	1,353	..	1,540
741	741	..	..	5,243	2,406	1,261	..	1,576
..	..	..	..	473	95	378	..	..
..	..	..	..	488	92	396	..	..
..	..	..	..	520	97	423	..	..
..	..	..	..	484	83	401	..	..
..	..	..	..	197	197	..	..	..
..	..	..	..	200	200	..	..	..
..	..	..	..	207	207	..	..	..
2	2	..	..	217	217	..	..	..
46	46	..	..	1,684	1,428	19	..	237
61	61	..	..	1,673	1,414	27	..	233
56	56	..	..	1,724	1,467	21	..	236
50	50	..	..	1,742	1,476	34	..	231
855	827	28	..	9,270	4,427	4,631	..	212
856	827	28	..	9,782	4,703	4,825	..	254
856	827	28	..	10,302	5,942	3,852	..	508
911	891	20	..	10,878	6,231	3,951	..	696
50	50	..	..	1,005	864	141	..	..
90	90	..	..	943	853	90	..	..
207	207	..	..	831	748	83	..	..
210	210	..	..	874	803	71	..	..
190	190	..	..	7,309	4,260	2,739	..	310
278	278	..	..	8,120	5,120	2,602	..	398
478	478	..	..	8,487	5,065	2,340	..	1,082
574	574	..	..	8,209	4,404	2,350	..	1,455
1,914	1,799	..	115	2,343	2,218	124	..	..
1,661	1,542	..	119	2,462	2,327	135	..	..
1,829	1,704	..	125	2,293	2,164	129	..	..
1,968	1,778	..	190	2,262	2,130	119	..	13

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Martinique	2013	1,577	1,501	..	..	2	75	..
	2014	1,561	1,476	..	..	2	84	..
	2015	1,570	1,487	..	..	2	81	..
	2016	1,587	1,503	..	..	1	82	..
Mexico	2013	297,326	247,163	28,002	11,800	4,185	106	6,070
	2014	301,496	240,279	38,893	9,677	6,426	221	6,000
	2015	310,719	253,005	30,815	11,577	8,745	246	6,331
	2016	320,353	262,310	30,698	10,567	10,378	252	6,148
Montserrat	2013	*23	*23	..	..	..	..	..
	2014	*24	*24	..	..	..	..	..
	2015	*24	*24	..	..	..	..	..
	2016	*20	*20	..	..	..	..	..
Nicaragua	2013	4,164	2,467	456	..	562	..	679
	2014	4,453	2,550	395	..	846	..	662
	2015	4,578	2,740	295	..	865	..	678
	2016	4,590	2,729	426	..	729	..	706
Panama	2013	8,962	3,808	5,154	..	..	..	..
	2014	9,287	4,136	5,034	..	116	1	..
	2015	10,295	3,604	6,257	..	419	16	..
	2016	10,885	3,666	6,523	..	625	71	..
Puerto Rico	2013	21,812	21,509	91	..	173	40	..
	2014	21,316	20,969	81	..	218	48	..
	2015	21,160	20,771	56	..	239	94	..
	2016	20,894	20,505	71	..	193	*125	..
Sint Maarten (Dutch part)	2013	355	355	..	..	..	..	..
	2014	*358	*358	..	..	..	..	..
	2015	*369	*369	..	..	..	..	..
	2016	*376	*376	..	..	..	..	..
St. Kitts-Nevis	2013	*220	*211	..	..	*8	*1	..
	2014	*221	*211	..	..	*8	*2	..
	2015	*225	*215	..	..	*8	*2	..
	2016	219	207	..	..	*8	*4	..
St. Lucia	2013	383	383	..	..	..	..	..
	2014	379	379	..	..	..	..	..
	2015	381	381	..	..	..	..	..
	2016	391	391	..	..	..	..	..
St. Pierre-Miquelon	2013	47	46	..	..	1	..	..
	2014	48	48	..	..	0	..	..
	2015	49	49	..	..	0	..	..
	2016	49	49	..	..	0	..	..
St. Vincent-Grenadines	2013	*139	*114	25	..	..	..	..
	2014	*157	*132	25	..	..	..	..
	2015	*166	*140	26	..	..	..	..
	2016	*136	*110	*26	..	..	..	..
Trinidad and Tobago	2013	9,509	9,505	..	..	..	4	..
	2014	9,899	9,895	..	..	..	4	..
	2015	10,304	10,300	..	..	..	4	..
	2016	10,716	10,712	..	..	..	4	..
Turks and Caicos Islands	2013	*209	*209	..	..	..	..	..
	2014	*227	*227	..	..	..	..	..
	2015	*239	*239	..	..	..	..	..
	2016	*250	*250	..	..	..	..	..
United States	2013	4,306,371	2,985,891	290,113	822,004	169,713	15,872	22,778
	2014	4,340,371	2,995,556	281,527	830,584	183,892	25,764	23,048
	2015	4,317,159	2,962,870	271,129	830,288	192,992	35,635	24,245
	2016	4,322,038	2,886,040	292,113	839,918	229,471	50,334	24,162

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
16	16	..	..	1,562	1,485	..	..	77
23	23	..	..	1,539	1,453	..	..	86
27	27	..	..	1,543	1,460	..	..	83
27	27	..	..	1,559	1,476	..	..	83
38,505	35,483	558	2,464	258,821	211,680	27,444	11,800	7,897
43,238	37,933	748	4,557	258,258	202,346	38,145	9,677	8,090
48,015	40,620	764	6,631	262,704	212,385	30,051	11,577	8,691
54,243	45,079	893	8,271	266,110	217,231	29,805	10,567	8,507
..	..	..	..	*23	*23	..	..	..
..	..	..	..	*24	*24	..	..	..
..	..	..	..	*24	*24	..	..	..
..	..	..	..	*20	*20	..	..	..
535	534	1	..	3,629	1,933	455	..	1,241
545	544	1	..	3,908	2,006	394	..	1,508
509	508	1	..	4,069	2,232	294	..	1,543
590	589	1	..	4,000	2,140	425	..	1,435
33	33	..	..	8,929	3,775	5,154	..	..
31	31	..	..	9,256	4,105	5,034	..	118
34	34	..	..	10,262	3,570	6,257	..	435
32	32	..	..	10,853	3,634	6,523	..	697
*250	*250	..	..	21,562	21,259	91	..	213
*250	*250	..	..	21,066	20,719	81	..	266
*250	*250	..	..	20,910	20,521	56	..	333
*250	*250	..	..	20,644	20,255	71	..	318
..	..	..	..	355	355	..	..	..
..	..	..	..	*358	*358	..	..	..
..	..	..	..	*369	*369	..	..	..
..	..	..	..	*376	*376	..	..	..
*1	*1	..	..	*219	*210	..	..	*9
*1	*1	..	..	*220	*210	..	..	*10
*1	*1	..	..	*224	*214	..	..	*10
*1	*1	..	..	218	206	..	..	*12
..	..	..	..	383	383	..	..	..
..	..	..	..	379	379	..	..	..
..	..	..	..	381	381	..	..	..
..	..	..	..	391	391	..	..	..
..	..	..	..	47	46	..	..	1
..	..	..	..	48	48	..	..	0
..	..	..	..	49	49	..	..	0
..	..	..	..	49	49	..	..	0
..	..	..	..	*139	*114	25	..	..
..	..	..	..	*157	*132	25	..	..
..	..	..	..	*166	*140	26	..	..
..	..	..	..	*136	*110	*26	..	..
82	78	..	4	9,427	9,427	..	..	..
86	82	..	4	9,813	9,813	..	..	..
89	85	..	4	10,215	10,215	..	..	..
92	88	..	4	10,624	10,624	..	..	..
..	..	..	..	*209	*209	..	..	..
..	..	..	..	*227	*227	..	..	..
..	..	..	..	*239	*239	..	..	..
..	..	..	..	*250	*250	..	..	..
177,985	163,542	3,534	10,909	4,128,386	2,822,349	286,579	822,004	197,454
173,841	160,485	1,332	12,024	4,166,530	2,835,071	280,195	830,584	220,680
177,864	160,682	1,454	15,728	4,139,295	2,802,188	269,675	830,288	237,144
180,721	160,329	1,517	18,875	4,141,317	2,725,711	290,596	839,918	285,092



Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
United States Virgin Is.	2013	834	820	..	..	..	*14	..
	2014	*788	*766	..	..	..	*22	..
	2015	*797	*766	..	..	..	*31	..
	2016	*795	*765	..	..	..	*30	..
<b>America, South</b>	<b>2013</b>	<b>1,140,949</b>	<b>434,285</b>	<b>676,611</b>	<b>21,657</b>	<b>7,949</b>	<b>282</b>	<b>165</b>
	<b>2014</b>	<b>1,153,070</b>	<b>450,132</b>	<b>665,191</b>	<b>21,134</b>	<b>15,528</b>	<b>794</b>	<b>292</b>
	<b>2015</b>	<b>1,155,296</b>	<b>458,083</b>	<b>646,362</b>	<b>21,873</b>	<b>27,253</b>	<b>1,723</b>	<b>1</b>
	<b>2016</b>	<b>1,165,568</b>	<b>428,243</b>	<b>669,107</b>	<b>24,149</b>	<b>40,895</b>	<b>3,173</b>	<b>1</b>
Argentina	2013	140,863	100,758	33,422	6,207	461	15	..
	2014	138,576	90,850	41,335	5,756	619	16	..
	2015	145,447	99,165	38,529	7,139	599	15	..
	2016	147,220	100,573	37,800	*8,285	548	14	..
Bolivia (Plur. State of)	2013	8,064	5,525	2,535	..	1	3	..
	2014	8,561	6,296	2,251	..	8	6	..
	2015	9,123	6,637	2,463	..	12	11	..
	2016	9,409	7,643	1,720	..	35	11	..
Brazil	2013	570,838	157,810	390,992	15,450	6,579	7	..
	2014	590,542	189,498	373,439	15,378	12,211	16	..
	2015	581,228	185,066	359,743	14,734	21,626	59	..
	2016	578,897	148,549	380,911	15,864	33,488	85	..
Chile	2013	73,065	52,602	19,737	..	554	8	164
	2014	70,753	45,440	23,099	..	1,443	480	291
	2015	75,387	48,130	23,881	..	2,115	1,261	0
	2016	79,308	50,946	23,274	..	2,449	2,639	0
Colombia	2013	70,858	26,423	44,377	..	58	..	..
	2014	70,059	25,149	44,852	..	58	..	..
	2015	67,527	22,648	44,821	..	58	..	..
	2016	71,315	22,298	48,966	..	51	..	..
Ecuador	2013	23,774	12,161	11,553	..	57	4	..
	2014	24,307	12,753	11,458	..	80	16	..
	2015	25,950	12,719	13,096	..	99	36	..
	2016	26,899	10,868	15,834	..	158	39	..
Falkland Is. (Malvinas)	2013	*18	*11	..	..	7	..	..
	2014	*18	*11	..	..	*7	..	..
	2015	*18	*10	..	..	*8	..	..
	2016	*18	*9	..	..	*9	..	..
French Guiana	2013	883	349	490	..	..	44	..
	2014	911	359	500	..	..	52	..
	2015	923	377	493	..	..	53	..
	2016	967	440	463	..	..	64	..
Guyana	2013	962	962	..	..	..	..	..
	2014	979	979	..	..	..	..	..
	2015	1,039	1,039	..	..	..	..	..
	2016	1,081	1,081	..	..	..	..	..
Paraguay	2013	60,381	3	60,378	..	..	..	..
	2014	55,282	6	55,276	..	..	..	..
	2015	55,744	1	55,743	..	..	..	..
	2016	63,771	1	63,770	..	..	..	..
Peru	2013	43,330	20,812	22,320	..	1	197	..
	2014	45,508	22,882	22,171	..	256	199	..
	2015	48,277	23,729	23,722	..	596	230	..
	2016	52,720	26,630	24,785	..	1,064	241	..
Suriname	2013	2,035	932	1,103	..	..	..	..
	2014	2,073	1,276	797	..	..	..	..
	2015	2,084	1,378	702	..	..	*4	..
	2016	2,027	1,239	783	..	..	*4	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers					
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other	
*13	0	..	..	*13	821	820	..	..	*1
*16	0	..	..	*16	*772	*766	..	..	*6
*20	0	..	..	*20	*777	*766	..	..	*11
*19	0	..	..	*19	*776	*765	..	..	*11
<b>121,767</b>	<b>97,108</b>	<b>24,629</b>	<b>30</b>	<b>1,019,182</b>	<b>337,176</b>	<b>651,982</b>	<b>21,657</b>	<b>8,366</b>	
<b>128,928</b>	<b>104,584</b>	<b>24,302</b>	<b>42</b>	<b>1,024,142</b>	<b>345,548</b>	<b>640,889</b>	<b>21,134</b>	<b>16,571</b>	
<b>132,248</b>	<b>108,896</b>	<b>23,283</b>	<b>69</b>	<b>1,023,048</b>	<b>349,188</b>	<b>623,079</b>	<b>21,873</b>	<b>28,908</b>	
<b>134,984</b>	<b>111,129</b>	<b>23,763</b>	<b>91</b>	<b>1,030,584</b>	<b>317,113</b>	<b>645,344</b>	<b>24,149</b>	<b>43,978</b>	
14,716	14,663	53	..	126,147	86,095	33,369	6,207	476	
14,216	14,179	37	..	124,360	76,671	41,298	5,756	635	
13,770	13,734	36	..	131,677	85,431	38,493	7,139	614	
13,707	13,678	28	1	133,513	86,895	37,772	*8,285	561	
193	190	..	3	7,871	5,335	2,535	..	1	
192	186	..	6	8,369	6,110	2,251	..	8	
201	190	..	11	8,922	6,447	2,463	..	12	
299	288	..	11	9,110	7,355	1,720	..	35	
86,163	64,105	22,053	5	484,675	93,705	368,939	15,450	6,581	
94,032	71,933	22,088	11	496,510	117,565	351,351	15,378	12,216	
96,306	75,190	21,070	46	484,922	109,876	338,673	14,734	21,639	
98,537	77,063	21,412	62	480,360	71,486	359,499	15,864	33,511	
6,422	6,228	175	19	66,643	46,374	19,562	..	707	
5,912	5,734	159	19	64,841	39,706	22,940	..	2,195	
6,221	6,174	44	3	69,166	41,956	23,837	..	3,373	
6,976	6,815	161	0	72,332	44,131	23,113	..	5,088	
3,464	3,343	121	..	67,394	23,080	44,256	..	58	
3,743	3,604	139	..	66,316	21,545	44,713	..	58	
*3,743	*3,604	*139	..	63,784	19,044	44,682	..	58	
*3,807	*3,807	0	..	67,508	18,491	48,966	..	51	
3,891	3,378	514	..	19,883	8,783	11,039	..	60	
3,831	3,308	522	..	20,476	9,445	10,935	..	96	
4,194	3,496	697	..	21,756	9,223	12,399	..	135	
4,295	3,565	730	..	22,604	7,303	15,104	..	197	
*2	*2	..	..	*16	*9	..	..	7	
*2	*2	..	..	*16	*9	..	..	*7	
*2	*2	..	..	*16	*8	..	..	*8	
*2	*2	..	..	*16	*7	..	..	*9	
..	..	..	..	883	349	490	..	44	
..	..	..	..	911	359	500	..	52	
..	..	..	..	923	377	493	..	53	
..	..	..	..	967	440	463	..	64	
302	302	..	..	660	660	..	..	..	
202	202	..	..	778	778	..	..	..	
290	290	..	..	749	749	..	..	..	
292	292	..	..	789	789	..	..	..	
..	..	..	..	60,381	3	60,378	..	..	
..	..	..	..	55,282	6	55,276	..	..	
..	..	..	..	55,744	1	55,743	..	..	
..	..	..	..	63,771	1	63,770	..	..	
2,666	2,055	610	..	40,665	18,757	21,709	..	198	
2,664	2,104	560	..	42,844	20,778	21,611	..	455	
2,558	1,963	595	..	45,719	21,766	23,127	..	826	
2,255	1,606	649	..	50,465	25,024	24,136	..	1,305	
1,483	380	1,103	..	552	552	..	..	..	
1,322	525	797	..	751	751	..	..	..	
1,322	620	702	..	762	757	..	..	*4	
1,450	667	783	..	577	573	..	..	*4	

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Uruguay	2013	11,658	3,309	8,206	..	143	..	..
	2014	13,008	2,623	9,649	..	733	3	..
	2015	13,734	3,352	8,268	..	2,065	49	..
	2016	13,805	2,897	7,842	..	2,995	*71	..
Venezuela (Bolivar. Rep.)	2013	134,220	52,627	81,499	..	88	5	1
	2014	132,492	52,009	80,364	..	113	5	1
	2015	128,815	53,832	74,902	..	74	5	1
	2016	118,130	55,068	62,959	..	98	5	1
<b>Asia</b>	<b>2013</b>	<b>11,040,002</b>	<b>8,918,495</b>	<b>1,498,987</b>	<b>347,563</b>	<b>192,040</b>	<b>25,821</b>	<b>57,096</b>
	<b>2014</b>	<b>11,506,650</b>	<b>9,193,096</b>	<b>1,614,782</b>	<b>380,177</b>	<b>201,750</b>	<b>49,444</b>	<b>67,401</b>
	<b>2015</b>	<b>11,848,167</b>	<b>9,340,194</b>	<b>1,693,776</b>	<b>429,180</b>	<b>239,865</b>	<b>90,830</b>	<b>54,322</b>
	<b>2016</b>	<b>12,385,882</b>	<b>9,588,505</b>	<b>1,786,024</b>	<b>478,919</b>	<b>302,964</b>	<b>140,821</b>	<b>88,650</b>
Afghanistan	2013	*1,022	*218	*804	..	..	..	..
	2014	*1,049	*154	*895	..	..	..	..
	2015	*1,034	*144	*890	..	..	..	..
	2016	*1,076	*150	*927	..	..	..	..
Armenia	2013	7,710	3,173	2,173	2,360	4	..	..
	2014	7,750	3,289	1,992	2,465	4	..	..
	2015	7,799	2,801	2,206	2,788	3	1	..
	2016	7,315	2,581	2,350	2,381	2	1	..
Azerbaijan	2013	23,354	21,863	1,489	..	1	1	..
	2014	24,728	23,423	1,300	..	2	3	..
	2015	24,688	23,041	1,637	..	5	5	..
	2016	24,953	22,936	1,959	..	23	35	..
Bahrain	2013	25,909	25,909	..	..	..	..	..
	2014	27,253	27,253	..	..	..	..	..
	2015	29,996	29,987	..	..	..	9	..
	2016	29,856	29,846	..	..	1	9	..
Bangladesh	2013	53,120	52,086	894	..	4	136	..
	2014	55,845	55,108	588	..	4	145	..
	2015	59,011	58,287	566	..	4	154	..
	2016	64,327	63,591	566	..	5	165	..
Bhutan	2013	7,550	1	7,550	..	..	..	..
	2014	7,164	0	7,164	..	..	..	..
	2015	7,747	0	7,747	..	..	..	..
	2016	7,954	0	7,953	..	1	..	..
Brunei Darussalam	2013	4,402	4,400	..	..	..	2	..
	2014	4,506	4,504	..	..	..	2	..
	2015	4,200	4,198	..	..	..	2	..
	2016	4,270	4,269	..	..	..	1	..
Cambodia	2013	1,778	759	1,016	..	..	3	..
	2014	3,062	1,207	1,852	..	..	3	..
	2015	4,397	2,394	2,000	..	..	3	..
	2016	5,594	2,972	2,619	..	..	3	..
China	2013	5,431,637	4,247,009	920,291	111,613	141,197	5,564	5,963
	2014	5,649,583	4,268,649	1,064,337	132,538	156,078	15,189	12,792
	2015	5,814,573	4,284,188	1,130,270	170,789	185,766	38,776	4,784
	2016	6,142,486	4,437,068	1,193,374	213,287	237,071	61,586	100
China, Hong Kong SAR	2013	39,063	39,063	..	..	..	..	..
	2014	39,803	39,803	..	..	..	..	..
	2015	37,924	37,924	..	..	..	..	..
	2016	38,154	38,154	..	..	..	..	..
China, Macao SAR	2013	413	413	..	..	..	..	..
	2014	641	641	..	..	..	..	..
	2015	962	962	..	..	..	..	..
	2016	988	988	..	..	..	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
928	925	..	3	10,730	2,384	8,206	..	140
1,280	1,274	..	6	11,728	1,349	9,649	..	730
1,604	1,594	..	9	12,130	1,757	8,268	..	2,105
1,396	1,378	..	17	12,410	1,519	7,842	..	3,049
1,537	1,537	..	..	132,683	51,090	81,499	..	94
1,533	1,533	..	..	130,959	50,476	80,364	..	119
2,038	2,038	..	..	126,777	51,794	74,902	..	80
1,969	1,969	..	..	116,161	53,099	62,959	..	104
<b>1,074,342</b>	<b>1,004,202</b>	<b>21,115</b>	<b>49,025</b>	<b>9,965,660</b>	<b>7,914,293</b>	<b>1,477,871</b>	<b>347,563</b>	<b>225,932</b>
<b>1,091,412</b>	<b>1,007,675</b>	<b>22,894</b>	<b>60,843</b>	<b>10,415,238</b>	<b>8,185,422</b>	<b>1,591,888</b>	<b>380,177</b>	<b>257,752</b>
<b>1,244,778</b>	<b>1,142,702</b>	<b>27,753</b>	<b>74,324</b>	<b>10,603,390</b>	<b>8,197,493</b>	<b>1,666,024</b>	<b>429,180</b>	<b>310,693</b>
<b>1,193,584</b>	<b>1,092,392</b>	<b>13,016</b>	<b>88,176</b>	<b>11,192,298</b>	<b>8,496,112</b>	<b>1,773,008</b>	<b>478,919</b>	<b>444,259</b>
*276	*5	*271	..	*746	*213	*533	..	..
*307	*5	*302	..	*742	*149	*593	..	..
*305	*5	*300	..	*729	*139	*590	..	..
*318	*5	*313	..	*759	*145	*614	..	..
..	..	..	..	7,710	3,173	2,173	2,360	4
..	..	..	..	7,750	3,289	1,992	2,465	4
..	..	..	..	7,799	2,801	2,206	2,788	4
..	..	..	..	7,315	2,581	2,350	2,381	3
1,798	1,798	..	..	21,556	20,065	1,489	..	2
2,022	2,022	..	..	22,706	21,401	1,300	..	5
2,137	2,137	..	..	22,551	20,904	1,637	..	10
2,254	2,237	..	17	22,699	20,699	1,959	..	41
11,166	11,166	..	..	14,743	14,743	..	..	..
10,989	10,989	..	..	16,264	16,264	..	..	..
11,269	11,269	..	..	18,727	18,718	..	..	9
*11,269	*11,269	..	..	18,587	18,577	..	..	10
14,363	14,363	..	..	38,757	37,723	894	..	140
15,418	15,418	..	..	40,427	39,690	588	..	149
16,109	16,109	..	..	42,902	42,178	566	..	158
17,264	17,264	..	..	47,063	46,327	566	..	170
..	..	..	..	7,550	1	7,550	..	..
..	..	..	..	7,164	0	7,164	..	..
..	..	..	..	7,747	0	7,747	..	..
..	..	..	..	7,954	0	7,953	..	1
460	460	..	..	3,942	3,940	..	..	2
496	496	..	..	4,010	4,008	..	..	2
462	462	..	..	3,738	3,736	..	..	2
427	427	..	..	3,843	3,842	..	..	1
..	..	..	..	1,778	759	1,016	..	3
..	..	..	..	3,062	1,207	1,852	..	3
..	..	..	..	4,397	2,394	2,000	..	3
..	..	..	..	5,594	2,972	2,619	..	3
344,432	344,432	..	..	5,087,205	3,902,577	920,291	111,613	152,724
346,187	346,187	..	..	5,303,396	3,922,462	1,064,337	132,538	184,059
347,448	347,448	..	..	5,467,125	3,936,740	1,130,270	170,789	229,326
359,846	359,846	..	..	5,782,640	4,077,222	1,193,374	213,287	298,757
..	..	..	..	39,063	39,063	..	..	..
..	..	..	..	39,803	39,803	..	..	..
..	..	..	..	37,924	37,924	..	..	..
..	..	..	..	38,154	38,154	..	..	..
186	186	..	..	227	227	..	..	..
206	206	..	..	435	435	..	..	..
209	209	..	..	753	753	..	..	..
201	201	..	..	787	787	..	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Cyprus	2013	4,290	4,012	..	..	231	47	..
	2014	4,350	4,084	..	..	182	84	..
	2015	4,533	4,186	..	..	221	126	..
	2016	4,887	4,515	..	..	226	146	..
Georgia	2013	10,059	1,788	8,271	..	..	..	..
	2014	10,371	2,036	8,335	..	..	..	..
	2015	10,833	2,379	8,454	..	..	..	..
	2016	11,574	2,236	9,329	..	9	..	..
India	2013	1,193,480	980,599	141,637	34,228	33,583	3,433	..
	2014	1,308,873	1,111,341	129,353	36,102	27,057	5,020	..
	2015	1,354,382	1,158,338	121,546	37,414	30,045	7,039	..
	2016	1,432,358	1,188,280	122,507	37,916	35,530	12,578	*35,547
Indonesia	2013	222,017	192,591	15,710	..	1	6	13,710
	2014	234,549	199,993	18,800	..	..	7	15,749
	2015	267,287	240,698	17,595	..	..	5	8,989
	2016	233,355	201,209	21,475	..	6	9	10,656
Iran (Islamic Rep. of)	2013	262,434	242,909	14,582	4,546	376	0	21
	2014	274,437	255,870	13,862	4,472	186	0	47
	2015	280,633	263,393	14,090	2,914	221	1	14
	2016	289,094	265,799	16,421	6,620	250	4	..
Iraq	2013	58,422	53,665	4,757	..	..	..	..
	2014	67,768	64,837	2,931	..	..	..	..
	2015	*68,688	*66,116	*2,572	..	..	..	..
	2016	80,030	76,659	3,371	..	..	..	..
Israel	2013	61,322	60,794	28	..	6	494	0
	2014	60,813	59,954	13	..	6	840	..
	2015	64,226	63,080	24	..	7	1,115	..
	2016	66,976	65,432	..	..	..	1,544	..
Japan	2013	1,073,255	936,051	84,886	9,303	5,187	12,880	24,948
	2014	1,052,579	913,159	86,942	0	5,217	22,952	24,309
	2015	1,046,944	881,996	91,270	9,437	5,581	34,802	23,858
	2016	1,057,976	873,973	85,083	18,060	5,951	50,952	23,957
Jordan	2013	17,263	17,205	55	..	3	..	..
	2014	18,270	18,210	58	..	2	..	..
	2015	19,012	18,834	53	..	123	2	..
	2016	19,730	18,803	41	..	391	491	4
Kazakhstan	2013	103,086	95,349	7,731	..	5	1	..
	2014	105,068	96,791	8,263	..	13	1	..
	2015	106,468	97,020	9,269	..	132	47	..
	2016	106,626	94,644	11,620	..	274	88	..
Korea, Dem.Ppl's.Rep.	2013	18,332	4,432	13,900	..	..	..	..
	2014	17,909	4,909	13,000	..	..	..	..
	2015	13,737	3,737	10,000	..	..	..	..
	2016	16,926	4,126	12,800	..	..	..	..
Korea, Republic of	2013	541,996	390,858	8,394	138,784	1,149	1,605	1,206
	2014	550,934	381,511	7,820	156,407	1,146	2,557	1,493
	2015	552,697	375,110	5,796	164,762	1,342	3,975	1,712
	2016	562,603	385,386	6,634	161,995	1,683	5,123	1,782
Kuwait	2013	60,982	60,982	..	..	..	..	..
	2014	65,140	65,140	..	..	..	..	..
	2015	68,288	68,288	..	..	..	..	..
	2016	70,094	70,092	..	..	..	2	..
Kyrgyzstan	2013	14,011	914	13,097	..	..	..	..
	2014	14,572	1,274	13,298	..	..	..	..
	2015	13,030	1,930	11,100	..	..	..	..
	2016	13,262	1,768	11,494	..	..	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
60	58	..	2	4,230	3,954	..	..	276
78	58	..	20	4,272	4,026	..	..	246
86	44	..	42	4,447	4,142	..	..	305
98	46	..	52	4,789	4,469	..	..	320
..	..	..	..	10,059	1,788	8,271	..	..
..	..	..	..	10,371	2,036	8,335	..	..
..	..	..	..	10,833	2,379	8,454	..	..
..	..	..	..	11,574	2,236	9,329	..	9
190,737	188,122	129	2,486	1,002,743	792,477	141,508	34,228	34,530
*162,057	*159,837	*109	*2,111	1,146,816	951,504	129,244	36,102	29,966
*218,948	*215,325	*169	*3,454	1,135,434	943,013	121,377	37,414	33,630
198,432	194,764	129	*3,539	1,233,926	993,516	122,378	37,916	80,116
52,764	45,989	2,696	4,079	169,254	146,602	13,014	..	9,638
59,252	49,515	3,984	5,753	175,297	150,478	14,816	..	10,003
110,260	98,471	7,590	4,199	157,027	142,227	10,005	..	4,796
66,897	52,603	7,590	6,704	166,458	148,606	13,885	..	3,967
6,549	6,549	..	..	255,885	236,360	14,582	4,546	397
6,270	6,270	..	..	268,167	249,600	13,862	4,472	233
6,440	6,440	..	..	274,193	256,953	14,090	2,914	236
6,482	6,482	..	..	282,612	259,317	16,421	6,620	254
..	..	..	..	58,422	53,665	4,757	..	..
..	..	..	..	67,768	64,837	2,931	..	..
..	..	..	..	*68,688	*66,116	*2,572	..	..
..	..	..	..	80,030	76,659	3,371	..	..
2,296	1,797	5	494	59,026	58,997	23	..	6
3,335	2,490	5	840	57,478	57,464	8	..	6
3,743	2,619	9	1,115	60,483	60,461	15	..	7
4,069	2,525	..	1,544	62,907	62,907	..	..	..
185,643	128,991	16,322	40,330	887,612	807,060	68,564	9,303	2,685
199,148	132,525	16,687	49,936	853,431	780,634	70,255	0	2,542
224,113	145,953	16,469	61,691	822,831	736,043	74,801	9,437	2,550
178,898	105,034	3,273	70,591	879,078	768,939	81,810	18,060	10,269
286	286	..	..	16,977	16,919	55	..	3
383	383	..	..	17,887	17,827	58	..	2
471	471	..	..	18,540	18,363	53	..	125
558	558	..	..	19,172	18,245	41	..	886
1	..	..	1	103,085	95,349	7,731	..	5
1	..	..	1	105,067	96,791	8,263	..	13
1	..	..	1	106,467	97,020	9,269	..	178
*1	..	..	*1	106,625	94,644	11,620	..	361
..	..	..	..	18,332	4,432	13,900	..	..
..	..	..	..	17,909	4,909	13,000	..	..
..	..	..	..	13,737	3,737	10,000	..	..
..	..	..	..	16,926	4,126	12,800	..	..
28,163	27,712	..	451	513,833	363,146	8,394	138,784	3,509
32,972	32,467	..	505	517,962	349,044	7,820	156,407	4,691
29,862	29,219	..	643	522,835	345,891	5,796	164,762	6,386
35,013	34,224	..	789	527,590	351,162	6,634	161,995	7,799
..	..	..	..	60,982	60,982	..	..	..
..	..	..	..	65,140	65,140	..	..	..
..	..	..	..	68,288	68,288	..	..	..
..	..	..	..	70,094	70,092	..	..	2
7	7	..	..	14,004	907	13,097	..	..
20	20	..	..	14,552	1,254	13,298	..	..
24	24	..	..	13,006	1,906	11,100	..	..
26	26	..	..	13,236	1,742	11,494	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Lao People's Dem. Rep.	2013	15,512	5	15,506	..	..	0	..
	2014	15,640	6	15,633	..	..	1	..
	2015	16,730	2,476	14,252	..	..	2	..
	2016	25,068	7,120	17,946	..	..	2	..
Lebanon	2013	17,487	16,218	1,269	..	..	..	..
	2014	17,952	17,759	193	..	..	..	..
	2015	18,468	17,989	479	..	..	..	..
	2016	18,690	18,308	382	..	..	..	..
Malaysia	2013	138,331	127,604	10,586	..	..	141	..
	2014	147,461	133,846	13,388	..	..	227	..
	2015	150,123	135,926	13,924	..	..	273	..
	2016	156,665	136,336	20,019	..	..	310	..
Maldives	2013	421	420	..	..	..	1	..
	2014	537	535	..	..	..	2	..
	2015	599	594	..	..	..	5	..
	2016	644	639	..	..	..	*5	..
Mongolia	2013	5,020	5,020	..	..	..	..	..
	2014	5,376	5,376	..	..	..	..	..
	2015	5,513	5,513	..	..	..	..	..
	2016	5,667	5,667	..	..	..	..	..
Myanmar	2013	12,247	3,424	8,823	..	..	..	..
	2014	14,156	5,327	8,829	..	..	..	..
	2015	15,970	6,463	9,507	..	..	..	..
	2016	17,867	8,123	9,744	..	..	..	..
Nepal	2013	3,130	10	3,120	..	..	..	..
	2014	3,508	10	3,498	..	..	..	..
	2015	3,503	..	3,496	..	6	1	..
	2016	4,244	..	4,237	..	6	1	..
Oman	2013	26,240	26,240	..	..	..	..	..
	2014	29,128	29,128	..	..	..	..	..
	2015	32,758	32,758	..	..	..	..	..
	2016	34,210	34,210	..	..	..	..	..
Other Asia	2013	252,351	200,124	8,610	41,639	1,640	338	..
	2014	260,025	208,145	7,439	42,389	1,500	552	..
	2015	258,025	211,648	7,505	36,471	1,525	876	..
	2016	264,136	220,023	9,856	31,661	1,464	1,132	..
Pakistan	2013	*104,067	*66,707	31,873	5,090	397	..	..
	2014	*106,966	*67,886	32,474	5,804	802	..	..
	2015	*111,299	*70,512	34,633	4,605	1,549	..	..
	2016	*123,118	*81,268	32,183	6,999	2,668	..	..
Philippines	2013	75,300	55,592	10,036	..	66	1	9,605
	2014	77,295	57,664	9,154	..	152	17	10,308
	2015	82,447	61,835	8,682	..	748	139	11,044
	2016	90,832	69,561	8,128	..	975	1,097	11,070
Qatar	2013	34,668	34,668	..	..	..	..	..
	2014	38,692	38,692	..	..	..	..	..
	2015	41,499	41,499	..	..	..	..	..
	2016	42,307	42,307	..	..	..	..	..
Saudi Arabia	2013	284,010	284,009	..	..	..	1	..
	2014	311,804	311,803	..	..	..	1	..
	2015	338,331	338,330	..	..	..	1	..
	2016	345,104	345,103	..	..	..	1	..
Singapore	2013	47,963	47,963	..	..	..	..	..
	2014	49,310	49,310	..	..	..	..	..
	2015	50,272	50,272	..	..	..	..	..
	2016	51,587	51,587	..	..	..	..	..

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	15,512	5	15,506	..	0
..	..	..	..	15,640	6	15,633	..	1
..	..	..	..	16,730	2,476	14,252	..	2
..	..	..	..	25,068	7,120	17,946	..	2
7,000	7,000	..	..	10,487	9,218	1,269	..	..
5,565	5,565	..	..	12,387	12,194	193	..	..
5,637	5,637	..	..	12,831	12,352	479	..	..
5,737	5,737	..	..	12,953	12,571	382	..	..
5,020	5,020	..	..	133,311	122,584	10,586	..	141
4,673	4,673	..	..	142,788	129,173	13,388	..	227
4,986	4,986	..	..	145,137	130,940	13,924	..	273
6,223	6,223	..	..	150,442	130,113	20,019	..	310
*117	*117	..	..	304	303	..	..	1
*208	*208	..	..	329	327	..	..	2
*208	*208	..	..	391	386	..	..	5
*219	*219	..	..	425	420	..	..	*5
..	..	..	..	5,020	5,020	..	..	..
..	..	..	..	5,376	5,376	..	..	..
..	..	..	..	5,513	5,513	..	..	..
..	..	..	..	5,667	5,667	..	..	..
945	495	450	..	11,302	2,929	8,373	..	..
2,959	2,281	678	..	11,197	3,046	8,151	..	..
*1,814	*1,136	*678	..	14,156	5,327	8,829	..	..
3,477	2,888	589	..	14,390	5,235	9,155	..	..
137	..	137	..	2,993	10	2,983	..	..
*140	..	*140	..	3,368	10	3,358	..	..
154	..	154	..	3,349	..	3,342	..	7
155	..	155	..	4,089	..	4,082	..	7
..	..	..	..	26,240	26,240	..	..	..
..	..	..	..	29,128	29,128	..	..	..
..	..	..	..	32,758	32,758	..	..	..
..	..	..	..	34,210	34,210	..	..	..
37,057	37,057	..	..	215,294	163,067	8,610	41,639	1,978
38,071	38,071	..	..	221,954	170,074	7,439	42,389	2,052
35,544	35,544	..	..	222,481	176,104	7,505	36,471	2,401
34,639	34,632	..	7	229,497	185,391	9,856	31,661	2,589
*43,761	*43,761	..	..	60,306	*22,946	31,873	5,090	397
*46,435	*46,435	..	..	60,531	*21,451	32,474	5,804	802
*46,272	*46,272	..	..	65,027	*24,240	34,633	4,605	1,549
*51,550	*51,550	..	..	71,568	*29,718	32,183	6,999	2,668
*34	*17	*17	..	75,266	55,575	10,019	..	9,672
*34	*17	*17	..	77,261	57,647	9,137	..	10,477
*34	*17	*17	..	82,413	61,818	8,665	..	11,931
*34	*17	*17	..	90,798	69,544	8,111	..	13,143
31,578	31,578	..	..	3,090	3,090	..	..	..
35,190	35,190	..	..	3,502	3,502	..	..	..
38,998	38,998	..	..	2,501	2,501	..	..	..
39,757	39,757	..	..	2,550	2,550	..	..	..
57,896	57,896	..	..	226,114	226,113	..	..	1
60,076	60,076	..	..	251,728	251,727	..	..	1
74,821	74,821	..	..	263,510	263,509	..	..	1
84,490	84,490	..	..	260,614	260,613	..	..	1
2,804	2,804	..	..	45,160	45,160	..	..	..
2,974	2,974	..	..	46,336	46,336	..	..	..
3,240	3,240	..	..	47,031	47,031	..	..	..
3,520	3,520	..	..	48,066	48,066	..	..	..



Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Sri Lanka	2013	12,060	4,870	6,929	..	236	25	..
	2014	12,861	7,986	4,563	..	273	39	..
	2015	13,227	6,854	5,969	..	344	60	..
	2016	14,361	9,721	4,221	..	345	75	..
State of Palestine	2013	534	534	..	..	..	..	..
	2014	339	339	..	..	..	..	..
	2015	515	515	..	..	..	..	..
	2016	537	537	..	..	..	..	..
Syrian Arab Republic	2013	25,933	22,933	3,000	..	..	..	..
	2014	21,726	18,726	3,000	..	..	..	..
	2015	17,881	17,468	413	..	..	..	..
	2016	18,112	17,183	929	..	..	..	..
Tajikistan	2013	17,115	44	17,071	..	..	..	..
	2014	16,472	160	16,312	..	..	..	..
	2015	17,162	302	16,860	..	..	..	..
	2016	17,232	608	16,624	..	..	..	..
Thailand	2013	170,148	163,014	5,748	..	305	1,080	1
	2014	172,259	165,028	5,540	..	305	1,385	1
	2015	177,479	170,028	4,743	..	329	2,378	1
	2016	191,321	180,615	6,983	..	345	3,377	1
Timor-Leste	2013	295	295	..	..	..	..	..
	2014	349	349	..	..	..	..	..
	2015	350	350	..	..	..	..	..
	2016	413	413	..	..	..	..	..
Turkey	2013	240,154	171,535	59,420	..	7,557	..	1,642
	2014	251,963	200,079	40,645	..	8,520	17	2,702
	2015	261,783	178,871	67,146	..	11,652	194	3,920
	2016	274,408	185,085	67,231	..	15,517	1,043	5,532
Turkmenistan	2013	18,870	18,870	..	..	..	..	..
	2014	20,400	20,400	..	..	..	..	..
	2015	22,534	22,534	..	..	..	..	..
	2016	22,534	22,534	..	..	..	..	..
United Arab Emirates	2013	109,979	109,926	..	..	..	53	..
	2014	116,528	116,237	..	..	..	291	..
	2015	127,366	127,075	..	..	..	291	..
	2016	129,596	129,287	..	..	..	309	..
Uzbekistan	2013	54,200	42,640	11,560	..	..	..	..
	2014	55,400	43,570	11,830	..	..	..	..
	2015	57,280	45,450	11,830	..	..	..	..
	2016	58,319	46,489	11,830	..	..	..	..
Viet Nam	2013	128,549	70,287	58,170	..	*92	..	..
	2014	145,730	83,950	61,480	..	*300	..	..
	2015	*157,949	*100,434	57,254	..	*261	..	..
	2016	181,401	115,992	65,188	..	221	..	..
Yemen	2013	8,510	8,501	..	..	..	9	..
	2014	7,756	7,646	..	..	..	110	..
	2015	6,017	5,468	..	..	..	549	..
	2016	5,045	4,313	..	..	..	732	..
<b>Europe</b>	<b>2013</b>	<b>4,859,067</b>	<b>2,544,318</b>	<b>811,457</b>	<b>1,158,537</b>	<b>239,168</b>	<b>86,735</b>	<b>18,853</b>
	<b>2014</b>	<b>4,774,280</b>	<b>2,417,853</b>	<b>807,482</b>	<b>1,173,001</b>	<b>256,589</b>	<b>99,175</b>	<b>20,179</b>
	<b>2015</b>	<b>4,807,038</b>	<b>2,441,082</b>	<b>766,317</b>	<b>1,163,206</b>	<b>305,729</b>	<b>109,765</b>	<b>20,940</b>
	<b>2016</b>	<b>4,858,109</b>	<b>2,480,035</b>	<b>799,013</b>	<b>1,138,394</b>	<b>306,270</b>	<b>113,048</b>	<b>21,349</b>
Albania	2013	6,956	..	6,956	..	..	..	..
	2014	4,724	..	4,724	..	..	..	..
	2015	5,895	..	5,895	..	..	..	..
	2016	7,136	..	7,136	..	..	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
36	0	*11	25	12,024	4,870	6,918	..	236
49	0	*11	38	12,812	7,986	4,552	..	274
1,181	57	1,065	59	12,046	6,796	4,904	..	345
186	91	*25	71	14,175	9,630	4,196	..	349
..	..	..	..	534	534	..	..	..
..	..	..	..	339	339	..	..	..
..	..	..	..	515	515	..	..	..
..	..	..	..	537	537	..	..	..
498	498	..	..	25,435	22,435	3,000	..	..
497	497	..	..	21,229	18,229	3,000	..	..
498	498	..	..	17,383	16,970	413	..	..
556	556	..	..	17,556	16,627	929	..	..
..	..	..	..	17,115	44	17,071	..	..
..	..	..	..	16,472	160	16,312	..	..
..	..	..	..	17,162	302	16,860	..	..
..	..	..	..	17,232	608	16,624	..	..
30,419	29,555	..	864	139,729	133,459	5,748	..	522
32,481	31,302	..	1,179	139,778	133,726	5,540	..	512
35,767	33,704	..	2,063	141,712	136,324	4,743	..	645
52,138	49,193	..	2,945	139,183	131,422	6,983	..	778
..	..	..	..	295	295	..	..	..
..	..	..	..	349	349	..	..	..
..	..	..	..	350	350	..	..	..
..	..	..	..	413	413	..	..	..
13,398	12,040	1,076	282	226,756	159,495	58,344	..	8,917
18,182	16,953	881	348	233,781	183,126	39,764	..	10,891
18,620	16,892	1,222	506	243,163	161,979	65,924	..	15,260
20,662	18,635	845	1,182	253,746	166,450	66,386	..	20,910
..	..	..	..	18,870	18,870	..	..	..
..	..	..	..	20,400	20,400	..	..	..
..	..	..	..	22,534	22,534	..	..	..
..	..	..	..	22,534	22,534	..	..	..
..	..	..	..	109,979	109,926	..	..	53
..	..	..	..	116,528	116,237	..	..	291
..	..	..	..	127,366	127,075	..	..	291
..	..	..	..	129,596	129,287	..	..	309
199	199	..	..	54,001	42,441	11,560	..	..
204	204	..	..	55,196	43,366	11,830	..	..
213	213	..	..	57,067	45,237	11,830	..	..
217	217	..	..	58,102	46,272	11,830	..	..
*4,003	*4,000	*1	*2	124,546	66,287	58,169	..	*90
*4,182	*4,100	*80	*2	141,548	79,850	61,400	..	*298
*4,182	*4,100	*80	*2	*153,767	*96,334	57,174	..	*259
*7,082	*7,000	*80	*2	174,319	108,992	65,108	..	219
254	245	..	9	8,256	8,256	..	..	..
350	240	..	110	7,406	7,406	..	..	..
722	173	..	549	5,295	5,295	..	..	..
888	156	..	732	4,157	4,157	..	..	..
<b>337,861</b>	<b>306,885</b>	<b>10,581</b>	<b>20,395</b>	<b>4,521,206</b>	<b>2,237,433</b>	<b>800,876</b>	<b>1,158,537</b>	<b>324,361</b>
<b>337,144</b>	<b>300,324</b>	<b>11,231</b>	<b>25,589</b>	<b>4,437,135</b>	<b>2,117,529</b>	<b>796,251</b>	<b>1,173,001</b>	<b>350,354</b>
<b>362,965</b>	<b>321,214</b>	<b>10,709</b>	<b>31,042</b>	<b>4,444,073</b>	<b>2,119,868</b>	<b>755,608</b>	<b>1,163,206</b>	<b>405,391</b>
<b>379,138</b>	<b>335,179</b>	<b>10,504</b>	<b>33,455</b>	<b>4,478,971</b>	<b>2,144,856</b>	<b>788,509</b>	<b>1,138,394</b>	<b>407,212</b>
..	..	..	..	6,956	..	6,956	..	..
..	..	..	..	4,724	..	4,724	..	..
..	..	..	..	5,895	..	5,895	..	..
..	..	..	..	7,136	..	7,136	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Andorra	2013	115	13	102	..	..	..	..
	2014	127	13	113	..	..	..	..
	2015	99	14	86	..	..	..	..
	2016	99	14	84	..	..	..	..
Austria	2013	68,313	18,759	45,805	..	3,153	582	14
	2014	65,440	15,960	44,836	..	3,846	785	13
	2015	65,299	18,915	40,592	..	4,840	937	15
	2016	68,351	19,086	42,919	..	5,235	1,096	15
Belarus	2013	31,507	31,361	138	..	8	..	..
	2014	34,735	34,602	121	..	11	1	..
	2015	34,082	33,941	107	..	26	8	..
	2016	33,566	33,321	142	..	75	28	..
Belgium	2013	83,488	32,408	1,704	42,644	3,665	2,644	423
	2014	72,672	29,610	1,462	33,703	4,615	2,883	399
	2015	69,849	33,249	1,418	26,103	5,574	3,053	452
	2016	85,520	31,474	1,489	43,523	5,436	3,086	512
Bosnia and Herzegovina	2013	17,451	10,215	7,236	..	..	..	..
	2014	16,160	10,225	5,935	..	..	..	..
	2015	15,629	10,078	5,551	..	..	..	..
	2016	17,767	12,102	5,641	..	..	24	..
Bulgaria	2013	43,784	22,067	4,795	14,171	1,374	1,361	16
	2014	47,485	23,858	5,163	15,867	1,331	1,252	14
	2015	49,228	24,840	6,147	15,383	1,452	1,383	23
	2016	45,277	22,088	4,568	15,776	1,425	1,386	34
Croatia	2013	14,052	4,797	8,727	..	517	11	..
	2014	13,554	3,664	9,125	..	730	35	..
	2015	11,403	3,994	6,556	..	796	57	..
	2016	12,820	4,682	7,058	..	1,014	66	..
Czechia	2013	86,913	49,940	3,639	30,745	481	2,033	75
	2014	86,148	50,174	2,961	30,325	477	2,123	88
	2015	83,892	51,063	3,071	26,841	573	2,264	80
	2016	83,309	53,279	3,202	24,104	497	2,131	96
Denmark	2013	34,743	23,089	13	..	11,123	518	..
	2014	32,185	18,495	15	..	13,079	596	..
	2015	28,946	14,191	18	..	14,133	604	..
	2016	30,522	16,977	19	..	12,782	744	..
Estonia	2013	13,275	12,720	26	..	529	..	..
	2014	12,446	11,815	27	..	604	..	..
	2015	10,417	9,675	27	..	715	..	..
	2016	12,176	11,547	35	..	594	..	..
Faeroe Islands	2013	293	180	91	..	22	..	..
	2014	305	150	121	..	34	..	..
	2015	314	126	133	..	56	..	..
	2016	317	159	106	..	52	..	..
Finland	2013	71,257	33,744	12,838	23,606	774	6	289
	2014	68,094	29,712	13,397	23,580	1,107	8	290
	2015	68,597	25,999	16,769	23,245	2,327	9	248
	2016	68,752	26,399	15,799	23,203	3,068	17	266
France	2013	573,846	52,331	75,867	423,685	16,033	4,735	1,195
	2014	564,154	34,733	68,627	436,479	17,249	5,913	1,153
	2015	570,323	43,798	59,401	437,428	21,249	7,262	1,185
	2016	556,184	57,471	64,889	403,195	21,400	8,160	1,069
Germany	2013	638,729	428,094	28,782	97,290	51,708	31,010	1,845
	2014	627,795	409,688	25,444	97,129	57,357	36,056	2,121
	2015	646,888	410,315	24,898	91,786	79,206	38,726	1,957
	2016	649,119	419,591	26,135	84,634	78,598	38,098	2,063

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	115	13	102	..	..
..	..	..	..	127	13	113	..	..
..	..	..	..	99	14	86	..	..
..	..	..	..	99	14	84	..	..
8,096	7,530	552	14	60,217	11,229	45,253	..	3,735
7,701	7,125	563	13	57,739	8,835	44,273	..	4,631
7,833	7,339	479	15	57,466	11,576	40,113	..	5,777
7,882	7,344	523	15	60,469	11,742	42,396	..	6,331
2,976	2,967	7	2	28,531	28,394	131	..	6
3,072	3,061	7	4	31,663	31,541	114	..	8
3,406	3,387	6	13	30,676	30,554	101	..	21
3,434	3,409	14	11	30,132	29,912	128	..	92
9,125	6,049	..	3,076	74,363	26,359	1,704	42,644	3,656
9,797	6,496	..	3,301	62,875	23,114	1,462	33,703	4,596
10,053	6,529	..	3,524	59,796	26,720	1,418	26,103	5,555
10,458	6,847	..	3,611	75,062	24,627	1,489	43,523	5,423
369	369	..	..	17,082	9,846	7,236	..	..
357	357	..	..	15,803	9,868	5,935	..	..
425	425	..	..	15,204	9,653	5,551	..	..
394	394	..	..	17,373	11,708	5,641	..	24
268	252	..	16	43,516	21,815	4,795	14,171	2,735
253	239	..	14	47,232	23,619	5,163	15,867	2,583
388	365	..	23	48,840	24,475	6,147	15,383	2,835
491	457	..	34	44,786	21,631	4,568	15,776	2,811
332	327	5	..	13,720	4,470	8,722	..	528
345	338	7	..	13,209	3,326	9,118	..	765
316	310	6	..	11,087	3,684	6,550	..	853
338	331	7	..	12,482	4,351	7,051	..	1,080
8,659	7,988	621	50	78,254	41,952	3,018	30,745	2,539
9,123	8,498	564	61	77,025	41,676	2,397	30,325	2,627
9,255	8,636	566	53	74,637	42,427	2,505	26,841	2,864
9,445	8,776	598	71	73,864	44,503	2,604	24,104	2,653
2,428	1,910	..	518	32,315	21,179	13	..	11,123
2,603	2,007	..	596	29,582	16,488	15	..	13,079
2,637	2,033	..	604	26,309	12,158	18	..	14,133
2,624	1,880	..	744	27,898	15,097	19	..	12,782
91	86	..	5	13,184	12,634	26	..	524
57	42	1	14	12,389	11,773	26	..	590
157	143	0	14	10,260	9,532	27	..	701
239	226	..	13	11,937	11,321	35	..	581
..	..	..	..	293	180	91	..	22
..	..	..	..	305	150	121	..	34
..	..	..	..	314	126	133	..	56
..	..	..	..	317	159	106	..	52
10,122	8,960	979	183	61,135	24,784	11,859	23,606	886
10,094	8,977	927	190	58,000	20,735	12,470	23,580	1,215
10,022	8,773	1,079	170	58,575	17,226	15,690	23,245	2,414
9,513	8,277	1,035	201	59,239	18,122	14,764	23,203	3,150
18,140	12,896	710	4,534	555,706	39,435	75,157	423,685	17,429
18,476	12,610	744	5,122	545,678	22,123	67,883	436,479	19,193
19,131	12,894	595	5,642	551,192	30,904	58,806	437,428	24,054
19,153	13,004	658	5,491	537,031	44,467	64,231	403,195	25,138
44,892	43,466	182	1,244	593,837	384,628	28,600	97,290	83,319
45,450	43,874	162	1,414	582,345	365,814	25,282	97,129	94,120
50,214	48,833	157	1,224	596,674	361,482	24,741	91,786	118,665
54,863	53,397	176	1,290	594,256	366,194	25,959	84,634	117,469

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Gibraltar	2013	189	189	..	..	..	..	..
	2014	198	198	..	..	..	..	..
	2015	224	224	..	..	..	..	..
	2016	254	254	..	..	..	..	..
Greece	2013	57,152	42,981	6,384	..	4,139	3,648	..
	2014	50,474	38,386	4,607	..	3,689	3,792	..
	2015	51,874	37,203	6,150	..	4,621	3,900	..
	2016	54,438	39,797	5,565	..	5,146	3,930	..
Guernsey	2013	289	289	..	..	..	..	..
	2014	227	227	..	..	..	..	..
	2015	157	157	..	..	..	..	..
	2016	87	87	..	..	..	..	..
Hungary	2013	30,294	13,936	213	15,370	718	25	32
	2014	29,392	12,674	301	15,649	657	56	55
	2015	30,342	13,395	234	15,834	693	123	63
	2016	31,859	14,583	259	16,054	684	201	78
Iceland	2013	18,116	5	12,863	..	3	..	5,245
	2014	18,123	3	12,873	..	8	..	5,239
	2015	18,799	4	13,781	..	11	..	5,003
	2016	18,550	3	13,470	..	9	..	5,068
Ireland	2013	25,920	20,433	944	..	4,542	1	..
	2014	26,087	19,958	988	..	5,140	1	..
	2015	28,387	20,717	1,095	..	6,573	2	..
	2016	30,418	23,292	973	..	6,149	4	..
Isle of Man	2013	341	338	*3	..	..	..	..
	2014	349	346	*3	..	..	..	..
	2015	323	320	*3	..	..	..	..
	2016	303	300	*3	..	..	..	..
Italy	2013	289,807	192,237	54,672	..	14,897	21,589	6,412
	2014	279,827	175,510	60,256	..	15,178	22,306	6,577
	2015	282,994	191,458	46,970	..	14,844	22,942	6,780
	2016	289,768	198,693	44,257	..	17,689	22,104	7,025
Jersey	2013	157	157	..	..	..	..	..
	2014	108	108	..	..	..	..	..
	2015	48	48	..	..	..	..	..
	2016	70	70	..	..	..	..	..
Kosovo	2013	6,525	6,382	143	..	..	..	..
	2014	5,436	5,285	151	..	..	..	..
	2015	6,119	5,979	140	..	..	..	..
	2016	5,981	5,736	245	..	..	..	..
Latvia	2013	6,209	3,177	2,912	..	120	..	..
	2014	5,141	3,006	1,994	..	141	..	..
	2015	5,533	3,526	1,860	..	147	..	..
	2016	6,425	3,767	2,530	..	128	..	..
Liechtenstein	2013	85	3	69	..	..	13	..
	2014	41	3	22	..	..	17	..
	2015	70	2	49	..	..	19	..
	2016	90	2	68	..	..	19	..
Lithuania	2013	4,762	2,808	1,069	..	603	45	237
	2014	4,397	2,354	1,088	..	639	73	243
	2015	4,933	2,761	1,024	..	810	73	265
	2016	4,266	1,750	1,044	..	1,136	66	270
Luxembourg	2013	2,888	1,573	1,158	..	83	74	..
	2014	2,966	1,622	1,169	..	80	95	..
	2015	2,766	1,030	1,530	..	102	104	..
	2016	2,196	467	1,528	..	101	100	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	189	189	..	..	..
..	..	..	..	198	198	..	..	..
..	..	..	..	224	224	..	..	..
..	..	..	..	254	254	..	..	..
1,885	1,885	..	..	55,267	41,096	6,384	..	7,787
1,792	1,792	..	..	48,682	36,594	4,607	..	7,481
2,340	2,340	..	..	49,534	34,863	6,150	..	8,521
1,947	1,947	..	..	52,491	37,850	5,565	..	9,076
..	..	..	..	289	289	..	..	..
..	..	..	..	227	227	..	..	..
..	..	..	..	157	157	..	..	..
..	..	..	..	87	87	..	..	..
615	558	..	57	29,679	13,378	213	15,370	718
655	544	..	111	28,737	12,130	301	15,649	657
789	603	..	186	29,553	12,792	234	15,834	693
999	720	..	279	30,860	13,863	259	16,054	684
..	..	..	..	18,116	5	12,863	..	5,248
..	..	..	..	18,123	3	12,873	..	5,247
..	..	..	..	18,799	4	13,781	..	5,014
..	..	..	..	18,550	3	13,470	..	5,077
2,056	2,055	..	1	23,864	18,378	944	..	4,542
2,073	2,072	..	1	24,014	17,886	988	..	5,140
2,160	2,158	..	2	26,227	18,559	1,095	..	6,573
2,100	2,096	..	4	28,318	21,196	973	..	6,149
..	..	..	..	341	338	*3	..	..
..	..	..	..	349	346	*3	..	..
..	..	..	..	323	320	*3	..	..
..	..	..	..	303	300	*3	..	..
16,073	15,124	627	322	273,734	177,113	54,045	..	42,576
15,742	14,749	738	255	264,085	160,761	59,518	..	43,806
19,082	18,209	609	264	263,912	173,249	46,361	..	44,302
18,467	17,687	562	218	271,301	181,006	43,695	..	46,600
34	34	..	..	123	123	..	..	..
37	37	..	..	71	71	..	..	..
41	41	..	..	7	7	..	..	..
45	45	..	..	24	24	..	..	..
..	..	..	..	6,525	6,382	143	..	..
..	..	..	..	5,436	5,285	151	..	..
..	..	..	..	6,119	5,979	140	..	..
..	..	..	..	5,981	5,736	245	..	..
257	251	3	3	5,952	2,926	2,909	..	117
257	246	7	4	4,884	2,760	1,987	..	137
259	253	2	4	5,274	3,273	1,858	..	143
211	207	2	2	6,214	3,560	2,528	..	126
..	..	..	..	85	3	69	..	13
..	..	..	..	41	3	22	..	17
..	..	..	..	70	2	49	..	19
..	..	..	..	90	2	68	..	19
621	384	..	237	4,141	2,424	1,069	..	648
736	493	..	243	3,661	1,861	1,088	..	712
931	666	..	265	4,002	2,095	1,024	..	883
888	618	..	270	3,378	1,132	1,044	..	1,202
265	185	6	74	2,623	1,388	1,152	..	83
271	170	6	95	2,695	1,452	1,163	..	80
274	164	6	104	2,492	866	1,524	..	102
285	177	8	100	1,911	290	1,520	..	101

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Malta	2013	2,251	2,222	..	..	..	29	..
	2014	2,245	2,177	..	..	..	68	..
	2015	1,303	1,210	..	..	..	93	..
	2016	856	731	..	..	..	125	..
Montenegro	2013	3,945	1,441	2,504	..	..	..	..
	2014	3,173	1,421	1,752	..	..	..	..
	2015	3,003	1,512	1,491	..	..	..	..
	2016	3,141	1,298	1,843	..	..	..	..
Netherlands	2013	101,736	92,494	114	2,891	5,627	487	123
	2014	103,418	92,488	112	4,091	5,797	785	145
	2015	110,070	97,078	93	4,077	7,550	1,122	150
	2016	115,170	101,186	100	3,960	8,170	1,560	194
Norway	2013	134,072	3,249	128,699	..	1,881	..	243
	2014	141,970	3,265	136,185	..	2,217	..	303
	2015	144,546	3,285	138,450	..	2,515	..	296
	2016	149,630	3,212	144,005	..	2,116	..	297
Poland	2013	164,580	155,467	2,997	..	6,004	1	111
	2014	159,059	148,500	2,734	..	7,676	7	142
	2015	164,944	151,478	2,435	..	10,858	57	116
	2016	166,635	151,234	2,622	..	12,588	124	67
Portugal	2013	51,672	24,110	14,868	..	12,014	479	201
	2014	52,802	23,440	16,412	..	12,111	627	212
	2015	52,420	30,005	9,799	..	11,608	796	212
	2016	60,280	29,903	16,909	..	12,474	822	172
Republic of Moldova	2013	2,779	859	45	..	1	..	1,874
	2014	3,573	902	59	..	1	1	2,610
	2015	4,239	885	50	..	2	2	3,300
	2016	4,230	862	39	..	3	2	3,324
Romania	2013	58,887	27,021	15,308	11,618	4,520	420	..
	2014	65,676	26,903	19,280	11,676	6,201	1,616	..
	2015	66,296	28,604	17,007	11,640	7,063	1,982	..
	2016	65,103	26,871	18,536	11,286	6,590	1,820	..
Russian Federation	2013	1,059,092	703,481	182,654	172,508	5	..	444
	2014	1,064,207	705,598	177,141	180,757	96	160	455
	2015	1,067,544	701,220	169,914	195,470	148	335	457
	2016	1,090,973	706,663	186,640	196,614	148	462	446
Serbia	2013	39,877	29,024	10,853	..	..	..	..
	2014	34,060	22,437	11,617	..	..	6	..
	2015	38,298	27,504	10,783	..	..	11	..
	2016	39,342	27,784	11,520	..	26	12	..
Slovakia	2013	28,832	7,283	5,166	15,720	6	588	69
	2014	27,401	6,719	4,462	15,499	6	597	118
	2015	26,903	7,008	4,137	15,146	6	506	100
	2016	27,064	7,015	4,606	14,774	6	533	130
Slovenia	2013	16,103	5,661	4,923	5,300	4	215	..
	2014	17,437	4,440	6,366	6,370	4	257	..
	2015	15,100	5,081	4,091	5,648	6	274	..
	2016	16,500	5,730	4,782	5,715	6	267	..
Spain	2013	285,632	119,111	41,052	56,726	55,646	13,097	0
	2014	278,750	112,789	42,970	57,305	52,013	13,673	0
	2015	280,911	128,947	31,368	57,196	49,325	13,859	216
	2016	274,779	113,618	39,865	58,633	48,906	13,649	108
Sweden	2013	153,166	15,336	61,496	66,457	9,842	35	..
	2014	153,662	13,632	63,872	64,877	11,234	47	..
	2015	162,058	13,906	75,439	56,348	16,268	97	..
	2016	156,010	15,150	62,137	63,101	15,479	143	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
35	6	..	29	2,216	2,216	..	..	0
75	7	..	68	2,170	2,170	..	..	..
100	7	..	93	1,203	1,203	..	..	..
133	8	..	125	723	723	..	..	..
..	..	..	..	3,945	1,441	2,504	..	..
..	..	..	..	3,173	1,421	1,752	..	..
..	..	..	..	3,003	1,512	1,491	..	..
..	..	..	..	3,141	1,298	1,843	..	..
24,608	22,998	..	1,610	77,128	69,496	114	2,891	4,627
21,960	20,048	..	1,912	81,458	72,440	112	4,091	4,815
22,592	20,200	..	2,392	87,478	76,878	93	4,077	6,430
22,917	20,349	..	2,568	92,253	80,837	100	3,960	7,356
2,425	2,425	..	..	131,647	824	128,699	..	2,124
2,587	2,587	..	..	139,383	678	136,185	..	2,520
2,596	2,596	..	..	141,950	689	138,450	..	2,811
2,598	2,598	..	..	147,032	614	144,005	..	2,413
8,917	8,802	3	112	155,663	146,665	2,994	..	6,004
8,881	8,729	3	149	150,178	139,771	2,731	..	7,676
9,382	9,206	3	173	155,562	142,272	2,432	..	10,858
10,457	10,263	3	191	156,178	140,971	2,619	..	12,588
9,010	8,780	20	210	42,662	15,330	14,848	..	12,484
8,435	8,117	23	295	44,367	15,323	16,389	..	12,655
8,294	7,929	15	350	44,126	22,076	9,784	..	12,266
8,157	7,799	20	338	52,123	22,104	16,889	..	13,130
43	43	..	..	2,736	816	45	..	1,875
70	70	..	..	3,503	832	59	..	2,612
40	40	..	..	4,199	845	50	..	3,304
42	42	..	..	4,188	820	39	..	3,329
6,519	5,918	246	355	52,368	21,103	15,062	11,618	4,585
6,095	5,037	327	731	59,581	21,866	18,953	11,676	7,086
7,407	6,389	404	614	58,889	22,215	16,603	11,640	8,431
7,125	6,310	323	492	57,978	20,561	18,213	11,286	7,918
64,495	63,047	1,448	..	994,597	640,434	181,206	172,508	449
66,732	65,186	1,546	..	997,475	640,412	175,595	180,757	711
71,996	70,501	1,495	..	995,548	630,719	168,419	195,470	940
74,782	73,452	1,330	..	1,016,191	633,211	185,310	196,614	1,056
202	202	..	..	39,675	28,822	10,853	..	..
289	289	..	..	33,771	22,148	11,617	..	6
318	318	..	..	37,980	27,186	10,783	..	11
453	453	..	..	38,889	27,331	11,520	..	38
2,470	1,825	106	539	26,362	5,458	5,060	15,720	124
3,040	2,317	116	607	24,361	4,402	4,346	15,499	114
3,068	2,519	85	464	23,835	4,489	4,052	15,146	148
3,084	2,473	98	513	23,980	4,542	4,508	14,774	156
622	247	166	209	15,481	5,414	4,757	5,300	10
749	271	228	250	16,688	4,169	6,138	6,370	11
688	268	154	266	14,412	4,813	3,937	5,648	14
754	267	227	260	15,746	5,463	4,555	5,715	13
38,128	37,145	943	40	247,504	81,966	40,109	56,726	68,703
32,111	31,006	1,064	41	246,639	81,783	41,906	57,305	65,645
33,480	32,473	748	259	247,431	96,474	30,620	57,196	63,141
34,049	33,088	803	158	240,730	80,530	39,062	58,633	62,505
5,854	5,844	10	..	147,312	9,492	61,486	66,457	9,877
5,797	5,785	12	..	147,865	7,847	63,860	64,877	11,281
5,827	5,816	11	..	156,231	8,090	75,428	56,348	16,365
5,738	5,727	11	..	150,272	9,423	62,126	63,101	15,622



Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						Other
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	
Switzerland	2013	70,227	3,679	39,968	25,990	90	500	..
	2014	71,767	3,566	39,701	27,557	101	842	..
	2015	67,720	3,521	39,881	23,089	110	1,119	..
	2016	63,175	3,898	36,689	21,146	109	1,333	..
T.F.Yug.Rep. Macedonia	2013	6,094	4,501	1,584	..	..	9	..
	2014	5,374	4,082	1,207	..	71	14	..
	2015	5,646	3,617	1,865	..	121	23	20
	2016	5,630	3,563	1,897	..	109	24	36
Ukraine	2013	194,377	95,487	14,472	83,209	639	570	..
	2014	182,815	83,549	9,318	88,389	1,130	429	..
	2015	163,682	67,523	6,971	87,627	1,084	477	..
	2016	164,573	72,795	9,304	80,950	954	491	79
United Kingdom	2013	358,290	249,666	7,605	70,607	28,397	2,010	5
	2014	338,100	229,566	8,771	63,748	31,959	4,054	2
	2015	338,924	211,676	9,038	70,345	40,317	7,546	2
	2016	339,399	211,531	8,354	71,726	37,367	10,421	0
<b>Oceania</b>	<b>2013</b>	<b>303,359</b>	<b>239,608</b>	<b>43,304</b>	<b>..</b>	<b>10,045</b>	<b>3,502</b>	<b>6,901</b>
	<b>2014</b>	<b>302,431</b>	<b>233,584</b>	<b>44,500</b>	<b>..</b>	<b>12,531</b>	<b>4,055</b>	<b>7,761</b>
	<b>2015</b>	<b>307,226</b>	<b>240,071</b>	<b>39,805</b>	<b>..</b>	<b>13,896</b>	<b>5,119</b>	<b>8,335</b>
	<b>2016</b>	<b>311,776</b>	<b>239,885</b>	<b>43,050</b>	<b>..</b>	<b>14,557</b>	<b>6,380</b>	<b>7,904</b>
American Samoa	2013	*156	*155	..	..	..	*1	..
	2014	157	156	..	..	..	*1	..
	2015	169	168	..	..	..	2	..
	2016	*170	*168	..	..	..	*2	..
Australia	2013	249,369	219,663	18,270	..	7,960	3,475	1
	2014	247,451	214,767	18,421	..	10,252	4,010	1
	2015	251,415	221,479	13,445	..	11,467	5,023	1
	2016	256,563	222,837	15,318	..	12,199	6,209	0
Cook Islands	2013	*33	*31	..	..	..	*1	..
	2014	*32	*29	..	..	..	*3	..
	2015	*29	*27	..	..	..	*2	..
	2016	*33	*30	..	..	..	*4	..
Fiji	2013	858	325	527	..	5	..	..
	2014	859	454	401	..	4	..	..
	2015	914	503	406	..	6	..	..
	2016	934	435	495	..	4	..	..
French Polynesia	2013	*645	*450	*186	..	..	*9	..
	2014	*630	*409	*209	..	..	*13	..
	2015	*628	*405	*209	..	..	*14	..
	2016	*639	*395	*230	..	..	*14	..
Guam	2013	1,736	1,736	..	..	..	..	..
	2014	*1,718	*1,718	..	..	..	..	..
	2015	*1,702	*1,680	..	..	..	22	..
	2016	*1,720	*1,668	..	..	*1	52	..
Kiribati	2013	25	25	..	..	..	..	..
	2014	*26	*26	..	..	..	..	..
	2015	*28	*26	..	..	..	*2	..
	2016	*31	*26	..	..	..	*5	..
Marshall Islands	2013	84	83	..	..	..	0	..
	2014	*86	*85	..	..	..	1	..
	2015	*87	*86	..	..	..	1	..
	2016	*88	*86	..	..	..	2	..
Micronesia (Fed. States of)	2013	*67	*66	..	..	..	1	..
	2014	69	68	0	..	..	1	..
	2015	67	66	0	..	..	1	..
	2016	*68	*66	0	..	..	2	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
6,312	2,979	2,833	500	63,915	700	37,135	25,990	90
6,865	3,109	2,914	842	64,902	457	36,787	27,557	101
7,095	3,096	2,880	1,119	60,625	425	37,001	23,089	110
7,189	3,217	2,639	1,333	55,986	681	34,050	21,146	109
2	2	..	..	6,092	4,499	1,584	..	9
1	1	..	..	5,373	4,081	1,207	..	85
0	0	..	..	5,646	3,617	1,865	..	164
0	0	..	..	5,630	3,563	1,897	..	169
3,200	3,177	22	1	191,177	92,310	14,450	83,209	1,208
2,927	2,905	19	3	179,888	80,644	9,299	88,389	1,556
2,214	2,195	17	2	161,468	65,328	6,954	87,627	1,559
5,767	5,659	23	85	158,806	67,136	9,281	80,950	1,439
37,715	30,169	1,092	6,454	320,575	219,497	6,513	70,607	23,958
41,640	31,134	1,253	9,253	296,460	198,432	7,518	63,748	26,762
48,155	33,560	1,392	13,203	290,769	178,116	7,646	70,345	34,662
52,117	35,635	1,444	15,038	287,282	175,896	6,910	71,726	32,750
<b>27,635</b>	<b>23,254</b>	<b>363</b>	<b>4,018</b>	<b>275,724</b>	<b>216,354</b>	<b>42,941</b>	..	<b>16,429</b>
<b>28,257</b>	<b>23,366</b>	<b>369</b>	<b>4,522</b>	<b>274,174</b>	<b>210,219</b>	<b>44,131</b>	..	<b>19,825</b>
<b>29,499</b>	<b>23,643</b>	<b>360</b>	<b>5,496</b>	<b>277,726</b>	<b>216,427</b>	<b>39,445</b>	..	<b>21,854</b>
<b>29,101</b>	<b>22,391</b>	<b>364</b>	<b>6,346</b>	<b>282,675</b>	<b>217,494</b>	<b>42,686</b>	..	<b>22,495</b>
..	..	..	..	*156	*155	..	..	*1
..	..	..	..	157	156	..	..	*1
..	..	..	..	169	168	..	..	2
..	..	..	..	*170	*168	..	..	*2
23,013	19,543	..	3,470	226,356	200,120	18,270	..	7,966
23,461	19,504	..	3,957	223,990	195,263	18,421	..	10,306
24,519	19,607	..	4,912	226,896	201,872	13,445	..	11,579
24,084	18,336	..	5,748	232,479	204,501	15,318	..	12,660
..	..	..	..	*33	*31	..	..	*1
..	..	..	..	*32	*29	..	..	*3
..	..	..	..	*29	*27	..	..	*2
..	..	..	..	*33	*30	..	..	*4
47	47	..	..	811	278	527	..	5
50	50	..	..	810	404	401	..	4
22	22	..	..	892	480	406	..	6
11	11	..	..	924	425	495	..	4
..	..	..	..	*645	*450	*186	..	*9
..	..	..	..	*630	*409	*209	..	*13
..	..	..	..	*628	*405	*209	..	*14
..	..	..	..	*639	*395	*230	..	*14
..	..	..	..	1,736	1,736	..	..	..
..	..	..	..	*1,718	*1,718	..	..	..
..	..	..	..	*1,702	*1,680	..	..	22
..	..	..	..	*1,720	*1,668	..	..	52
*2	*2	..	..	23	23	..	..	..
*2	*2	..	..	*24	*24	..	..	..
*2	*2	..	..	*26	*24	..	..	*2
*2	*2	..	..	*29	*24	..	..	*5
..	..	..	..	84	83	..	..	0
..	..	..	..	*86	*85	..	..	1
..	..	..	..	*87	*86	..	..	1
..	..	..	..	*88	*86	..	..	2
..	..	..	..	*67	*66	..	..	1
..	..	..	..	69	68	0	..	1
..	..	..	..	67	66	0	..	1
..	..	..	..	*68	*66	0	..	2

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Nauru	2013	*24	*24	..	..	..	0	..
	2014	*25	*25	..	..	..	0	..
	2015	*25	*25	..	..	..	0	..
	2016	*25	*25	..	..	..	0	..
New Caledonia	2013	2,505	1,992	456	..	52	5	..
	2014	3,011	2,660	289	..	57	5	..
	2015	2,903	2,494	340	..	62	7	..
	2016	3,130	2,842	232	..	45	11	..
New Zealand	2013	43,041	11,703	22,829	..	2,024	7	6,478
	2014	43,316	9,624	24,123	..	2,214	17	7,338
	2015	44,040	9,383	24,355	..	2,356	34	7,912
	2016	43,033	7,464	25,730	..	2,303	52	7,484
Niue	2013	3	3	..	..	..	0	..
	2014	3	3	..	..	..	0	..
	2015	3	3	..	..	..	0	..
	2016	*3	*3	..	..	..	0	..
Northern Mariana Islands	2013	*415	*415	..	..	..	..	..
	2014	*419	*419	..	..	..	..	..
	2015	*430	*430	..	..	..	..	..
	2016	*387	*387	..	..	..	..	..
Palau	2013	*87	*87	..	..	..	..	..
	2014	*90	*90	..	..	..	..	..
	2015	*90	*90	..	..	..	..	..
	2016	*95	*95	..	..	..	..	..
Papua New Guinea	2013	3,964	2,546	996	..	..	..	422
	2014	4,176	2,734	1,020	..	..	..	422
	2015	4,324	2,890	1,012	..	..	..	422
	2016	4,445	3,020	1,005	..	..	..	420
Samoa	2013	113	80	32	..	..	..	..
	2014	125	95	30	..	..	0	..
	2015	131	97	31	..	0	3	..
	2016	149	101	33	..	0	16	..
Solomon Islands	2013	89	89	..	..	..	..	..
	2014	94	92	..	..	..	*2	..
	2015	97	95	..	..	..	*2	..
	2016	104	102	..	..	..	*2	..
Tonga	2013	53	51	..	..	0	2	..
	2014	55	52	..	..	0	2	..
	2015	55	52	..	..	0	3	..
	2016	60	55	..	..	0	5	..
Tuvalu	2013	*5	*5	..	..	..	..	..
	2014	*5	*5	..	..	..	..	..
	2015	*7	*5	..	..	..	2	..
	2016	*8	*5	..	..	..	*3	..
Vanuatu	2013	*68	*58	*7	..	*3	0	..
	2014	*67	*56	*7	..	*3	0	..
	2015	*64	*50	*7	..	*6	*1	..
	2016	*71	*56	*7	..	*6	*2	..
Wallis and Futuna Is.	2013	19	19	..	..	..	..	..
	2014	19	19	..	..	..	..	..
	2015	18	18	..	..	..	..	..
	2016	20	20	..	..	..	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	*24	*24	..	..	0
..	..	..	..	*25	*25	..	..	0
..	..	..	..	*25	*25	..	..	0
..	..	..	..	*25	*25	..	..	0
..	..	..	..	2,505	1,992	456	..	57
..	..	..	..	3,011	2,660	289	..	62
..	..	..	..	2,903	2,494	340	..	68
..	..	..	..	3,130	2,842	232	..	57
1,500	1,362	12	126	41,541	10,341	22,817	..	8,383
1,494	1,342	9	143	41,822	8,282	24,114	..	9,426
1,534	1,363	9	162	42,506	8,020	24,346	..	10,140
1,469	1,282	9	178	41,564	6,182	25,721	..	9,661
..	..	..	..	3	3	..	..	0
..	..	..	..	3	3	..	..	0
..	..	..	..	3	3	..	..	0
..	..	..	..	*3	*3	..	..	0
..	..	..	..	*415	*415	..	..	..
..	..	..	..	*419	*419	..	..	..
..	..	..	..	*430	*430	..	..	..
..	..	..	..	*387	*387	..	..	..
*6	*6	..	..	*81	*81	..	..	..
*6	*6	..	..	*84	*84	..	..	..
*6	*6	..	..	*84	*84	..	..	..
*6	*6	..	..	*89	*89	..	..	..
3,059	2,286	351	422	905	260	645	..	..
3,236	2,454	360	422	940	280	660	..	..
3,407	2,634	351	422	917	256	661	..	..
3,520	2,745	355	420	925	275	650	..	..
..	..	..	..	113	80	32	..	..
..	..	..	..	125	95	30	..	0
..	..	..	..	131	97	31	..	4
..	..	..	..	149	101	33	..	16
*8	*8	..	..	81	81	..	..	..
*8	*8	..	..	86	84	..	..	*2
*9	*9	..	..	88	86	..	..	*2
*9	*9	..	..	95	93	..	..	*2
..	..	..	..	53	51	..	..	2
..	..	..	..	55	52	..	..	2
..	..	..	..	55	52	..	..	3
..	..	..	..	60	55	..	..	5
..	..	..	..	*5	*5	..	..	..
..	..	..	..	*5	*5	..	..	..
..	..	..	..	*7	*5	..	..	2
..	..	..	..	*8	*5	..	..	*3
..	..	..	..	*68	*58	*7	..	*3
..	..	..	..	*67	*56	*7	..	*3
..	..	..	..	*64	*50	*7	..	*7
..	..	..	..	*71	*56	*7	..	*8
..	..	..	..	19	19	..	..	..
..	..	..	..	19	19	..	..	..
..	..	..	..	18	18	..	..	..
..	..	..	..	20	20	..	..	..