

**Table 32**

**Production of electricity - by type**

Gigawatt-hours

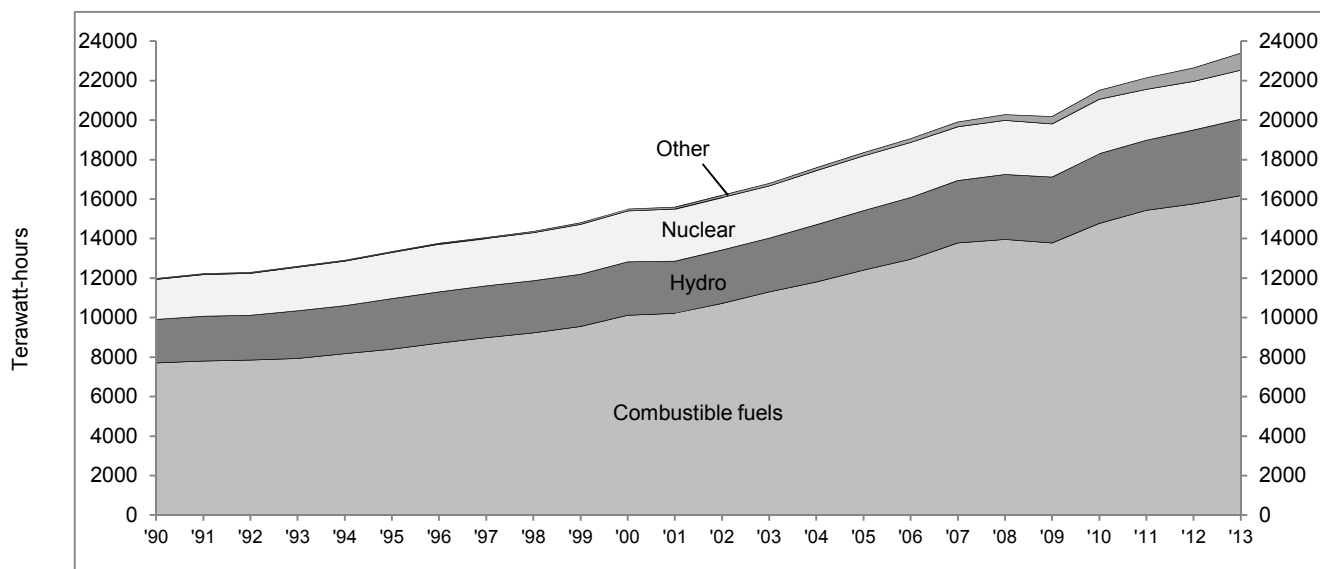
**Table Notes**

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.

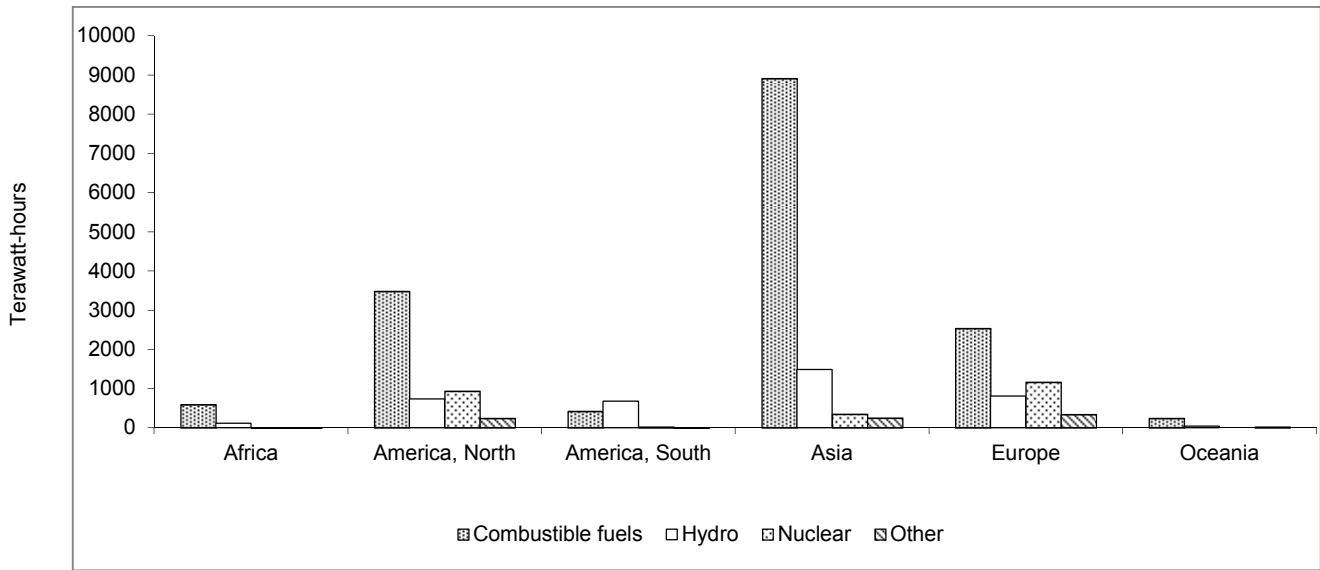
For India, thermal production includes also wind electricity.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description /classification.

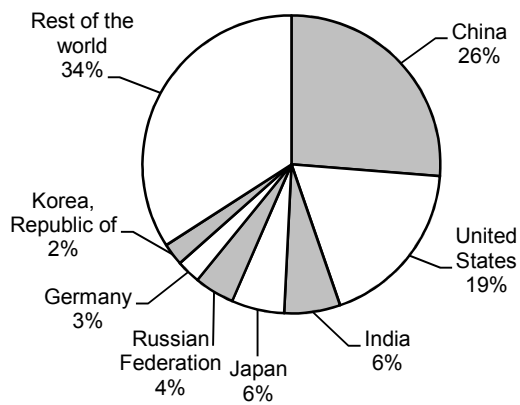
**Figure 75: World electricity generation by source, 1990-2013**



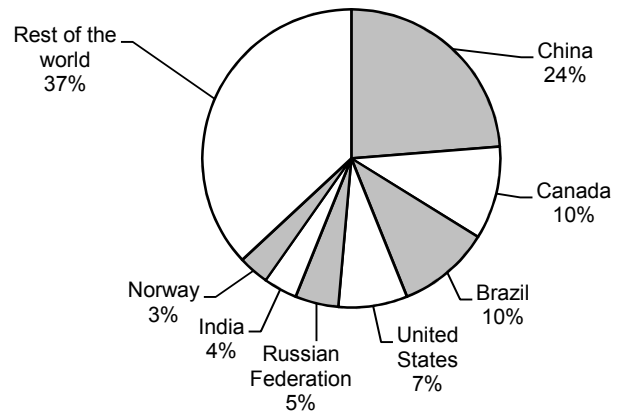
**Figure 76: World production of electricity by region, 2013**



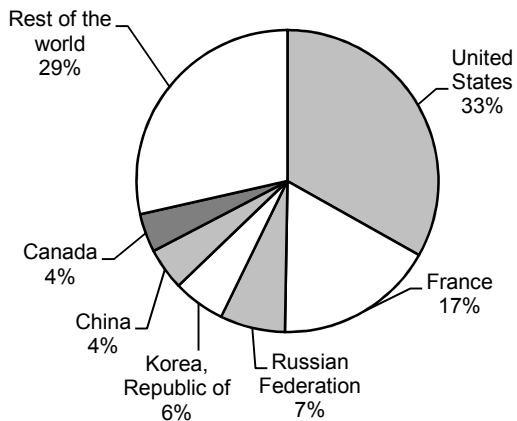
**Figure 77: Major countries producing electricity from combustible fuels, 2013**



**Figure 78: Major countries producing hydro electricity, 2013**



**Figure 79: Major countries producing nuclear electricity, 2013**



**Figure 80: Major countries producing electricity from other sources, 2013**

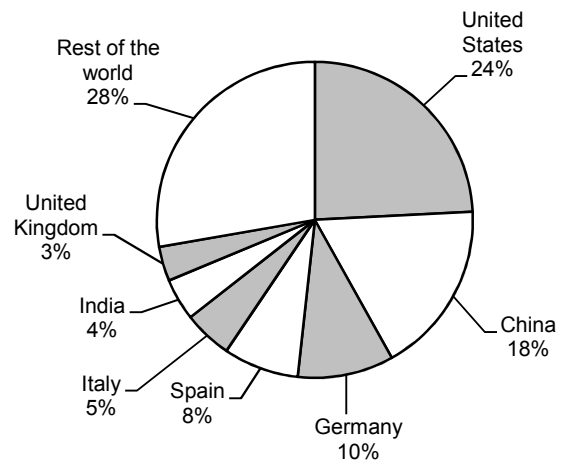


Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
World	2010	21,516,074	14,771,964	3,523,534	2,756,288	321,529	33,168	109,591
	2011	22,138,320	15,429,988	3,552,647	2,582,635	410,795	62,770	99,486
	2012	22,652,573	15,757,066	3,741,730	2,460,301	492,568	94,603	106,304
	2013	23,395,101	16,177,539	3,878,209	2,478,126	637,713	134,722	88,793
Africa	2010	677,886	547,466	113,716	12,099	2,369	301	1,935
	2011	700,686	568,288	114,169	13,502	2,441	644	1,642
	2012	722,810	591,349	114,753	11,954	2,512	497	1,745
	2013	735,652	594,104	121,059	14,106	3,681	629	2,074
Algeria	2010	45,734	45,560	174	..	..	..	..
	2011	51,224	50,722	502	..	..	..	..
	2012	57,397	56,775	622	..	..	..	..
	2013	59,890	59,560	330	..	..	..	..
Angola	2010	5,449	1,746	3,703	..	..	..	..
	2011	5,651	1,644	4,007	..	..	..	..
	2012	5,613	1,633	3,980	..	..	..	..
	2013	5,995	1,744	4,251	..	..	..	..
Benin	2010	150	150	..	..	..	..	..
	2011	155	155	..	..	..	..	..
	2012	163	163	..	..	..	..	..
	2013	173	173	..	..	..	..	..
Botswana	2010	532	532	..	..	..	..	..
	2011	437	437	..	..	..	..	..
	2012	251	250	..	..	..	1	..
	2013	761	760	..	..	..	1	..
Burkina Faso	2010	565	448	118	..	..	..	..
	2011	530	448	82	..	..	..	..
	2012	626	529	97	..	..	..	..
	2013	*731	*625	106	..	..	..	..
Burundi	2010	142	18	124	..	..	..	..
	2011	141	13	128	..	..	..	..
	2012	142	3	139	..	..	..	..
	2013	159	21	138	..	..	..	..
Cabo Verde	2010	347	343	..	..	2	2	..
	2011	362	337	..	..	16	9	..
	2012	371	302	..	..	61	7	..
	2013	391	308	..	..	76	7	..
Cameroon	2010	5,899	1,639	4,260	..	..	..	..
	2011	5,943	1,546	4,397	..	..	..	..
	2012	6,263	1,664	4,599	..	..	..	..
	2013	6,849	1,994	4,855	..	..	..	..
Central African Rep.	2010	*160	*25	*135	..	..	..	..
	2011	*174	*27	*147	..	..	..	..
	2012	*177	*27	*150	..	..	..	..
	2013	*181	*26	*155	..	..	..	..
Chad	2010	200	200	..	..	..	..	..
	2011	*218	*218	..	..	..	..	..
	2012	205	205	..	..	..	..	..
	2013	*205	*205	..	..	..	..	..
Comoros	2010	*43	*38	*5	..	..	..	..
	2011	*43	*38	*5	..	..	..	..
	2012	*43	*38	*5	..	..	..	..
	2013	*43	*38	*5	..	..	..	..
Congo	2010	782	352	430	..	..	..	..
	2011	1,293	502	791	..	..	..	..
	2012	1,709	722	987	..	..	..	..
	2013	1,768	747	1,021	..	..	..	..

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
1,553,650	1,439,448	91,094	23,108	19,962,424	13,332,517	3,432,440	2,756,288	441,180
1,673,995	1,544,564	97,895	31,537	20,464,325	13,885,424	3,454,752	2,582,635	541,513
1,718,288	1,579,221	97,697	41,370	20,934,285	14,177,845	3,644,033	2,460,301	652,105
1,872,627	1,707,206	101,801	63,619	21,522,475	14,470,333	3,776,408	2,478,126	797,609
28,100	26,362	1,256	482	649,786	521,105	112,460	12,099	4,123
33,054	31,590	1,264	201	667,631	536,699	112,905	13,502	4,526
36,619	35,207	1,181	231	686,190	556,142	113,572	11,954	4,523
36,894	35,385	1,198	311	698,758	558,718	119,861	14,106	6,073
561	561	..	..	45,173	44,999	174	..	..
2,352	2,352	..	..	48,872	48,370	502	..	..
3,311	3,311	..	..	54,086	53,464	622	..	..
3,742	3,742	..	..	56,148	55,818	330	..	..
345	345	..	..	5,104	1,401	3,703	..	..
325	325	..	..	5,326	1,319	4,007	..	..
323	323	..	..	5,290	1,310	3,980	..	..
345	345	..	..	5,650	1,399	4,251	..	..
27	27	..	..	123	123	..	..	..
28	28	..	..	127	127	..	..	..
29	29	..	..	134	134	..	..	..
31	31	..	..	142	142	..	..	..
..	..	..	..	532	532	..	..	..
..	..	..	..	437	437	..	..	..
..	..	..	..	251	250	..	..	1
..	..	..	..	761	760	..	..	1
..	..	..	..	565	448	118	..	..
88	88	..	..	442	360	82	..	..
147	147	..	..	479	382	97	..	..
*198	*198	..	..	*533	*427	106	..	..
..	..	..	..	142	18	124	..	..
..	..	..	..	141	13	128	..	..
..	..	..	..	142	3	139	..	..
..	..	..	..	159	21	138	..	..
*1	*1	..	..	346	342	..	..	4
0	0	..	..	362	337	..	..	25
0	0	..	..	371	302	..	..	69
0	0	..	..	391	308	..	..	83
1,269	1,269	..	..	4,630	370	4,260	..	..
1,194	1,194	..	..	4,749	352	4,397	..	..
1,295	1,295	..	..	4,968	369	4,599	..	..
1,607	1,607	..	..	5,242	387	4,855	..	..
..	..	..	..	*160	*25	*135	..	..
..	..	..	..	*174	*27	*147	..	..
..	..	..	..	*177	*27	*150	..	..
..	..	..	..	*181	*26	*155	..	..
..	..	..	..	200	200	..	..	..
..	..	..	..	*218	*218	..	..	..
..	..	..	..	205	205	..	..	..
..	..	..	..	*205	*205	..	..	..
..	..	..	..	*43	*38	*5	..	..
..	..	..	..	*43	*38	*5	..	..
..	..	..	..	*43	*38	*5	..	..
..	..	..	..	*43	*38	*5	..	..
343	343	..	..	439	9	430	..	..
493	493	..	..	800	9	791	..	..
713	713	..	..	996	9	987	..	..
738	738	..	..	1,030	9	1,021	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						Other
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	
Côte d'Ivoire	2010	5,965	4,347	1,618	..	..	..	..
	2011	6,099	4,325	1,774	..	..	..	..
	2012	7,016	5,227	1,789	..	..	..	..
	2013	7,567	5,840	1,727	..	..	..	..
Dem. Rep. of the Congo	2010	7,881	35	7,846	..	..	..	..
	2011	7,875	35	7,840	..	..	..	..
	2012	7,956	35	7,921	..	..	..	..
	2013	8,627	35	8,592	..	..	..	..
Djibouti	2010	*379	*379	..	..	..	..	..
	2011	*387	*387	..	..	..	..	..
	2012	393	393	..	..	..	..	..
	2013	402	402	..	..	..	..	..
Egypt	2010	150,486	135,736	13,046	..	1,498	206	..
	2011	161,162	146,224	12,934	..	1,525	479	..
	2012	164,628	150,010	13,121	..	1,260	237	..
	2013	168,050	153,252	13,352	..	1,332	114	..
Equatorial Guinea	2010	*102	*95	*7	..	..	..	..
	2011	*104	*97	*7	..	..	..	..
	2012	*107	*100	*7	..	..	..	..
	2013	*110	*103	*7	..	..	..	..
Eritrea	2010	311	309	..	..	..	2	..
	2011	337	335	..	..	..	2	..
	2012	359	357	..	..	..	2	..
	2013	363	361	..	..	..	2	..
Ethiopia	2010	4,980	31	4,931	..	..	..	18
	2011	6,336	37	6,262	..	29	..	8
	2012	7,608	12	7,388	..	192	..	16
	2013	8,719	8	8,338	..	356	..	17
Gabon	2010	1,963	1,056	907	..	..	..	..
	2011	2,057	1,217	840	..	..	..	..
	2012	2,198	1,290	908	..	..	..	..
	2013	2,400	1,500	900	..	..	..	..
Gambia	2010	*245	*245	..	..	..	..	..
	2011	*256	*256	..	..	..	..	..
	2012	*266	*266	..	..	..	..	..
	2013	*261	*261	..	..	..	..	..
Ghana	2010	10,167	3,171	6,996	..	..	..	..
	2011	11,366	3,805	7,561	..	..	..	..
	2012	12,204	4,133	8,071	..	..	..	..
	2013	13,047	4,814	8,233	..	..	..	..
Guinea	2010	957	*483	474	..	..	..	..
	2011	890	*476	414	..	..	..	..
	2012	1,069	*579	490	..	..	..	..
	2013	995	*513	482	..	..	..	..
Guinea-Bissau	2010	*32	*32	..	..	..	..	..
	2011	*33	*33	..	..	..	..	..
	2012	*34	*34	..	..	..	..	..
	2013	*35	*35	..	..	..	..	..
Kenya	2010	6,976	2,293	3,224	..	17	..	1,442
	2011	7,560	2,882	3,217	..	18	..	1,444
	2012	7,852	2,305	4,016	..	14	..	1,516
	2013	8,448	2,218	4,435	..	15	..	1,781
Lesotho	2010	567	..	567	..	..	..	..
	2011	549	..	549	..	..	..	..
	2012	485	..	485	..	..	..	..
	2013	515	..	515	..	..	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
81	81	..	..	5,884	4,266	1,618	..	..
65	65	..	..	6,034	4,260	1,774	..	..
68	68	..	..	6,948	5,159	1,789	..	..
70	70	..	..	7,497	5,770	1,727	..	..
322	29	293	..	7,559	6	7,553	..	..
342	29	313	..	7,533	6	7,527	..	..
364	29	335	..	7,592	6	7,586	..	..
392	29	363	..	8,235	6	8,229	..	..
..	..	..	..	*379	*379	..	..	..
..	..	..	..	*387	*387	..	..	..
..	..	..	..	393	393	..	..	..
..	..	..	..	402	402	..	..	..
3,690	3,690	..	..	146,796	132,046	13,046	..	1,704
3,756	3,756	..	..	157,406	142,468	12,934	..	2,004
5,405	5,405	..	..	159,223	144,605	13,121	..	1,497
5,502	5,502	..	..	162,548	147,750	13,352	..	1,446
..	..	..	..	*102	*95	*7	..	..
..	..	..	..	*104	*97	*7	..	..
..	..	..	..	*107	*100	*7	..	..
..	..	..	..	*110	*103	*7	..	..
11	11	..	..	300	298	..	..	2
11	11	..	..	326	324	..	..	2
11	11	..	..	348	346	..	..	2
11	11	..	..	352	350	..	..	2
..	..	..	..	4,980	31	4,931	..	18
..	..	..	..	6,336	37	6,262	..	37
..	..	..	..	7,608	12	7,388	..	208
..	..	..	..	8,719	8	8,338	..	373
211	211	..	..	1,752	845	907	..	..
219	219	..	..	1,838	998	840	..	..
232	232	..	..	1,966	1,058	908	..	..
251	251	..	..	2,149	1,249	900	..	..
*28	*28	..	..	*217	*217	..	..	..
*30	*30	..	..	*226	*226	..	..	..
*31	*31	..	..	*236	*236	..	..	..
*31	*31	..	..	*230	*230	..	..	..
138	138	..	..	10,029	3,033	6,996	..	..
*166	*166	..	..	11,200	3,639	7,561	..	..
*180	*180	..	..	12,024	3,953	8,071	..	..
*180	*180	..	..	12,867	4,634	8,233	..	..
*343	*343	..	..	614	140	474	..	..
*342	*342	..	..	548	134	414	..	..
*342	*342	..	..	727	237	490	..	..
*342	*342	..	..	653	171	482	..	..
*7	*7	..	..	*25	*25	..	..	..
*7	*7	..	..	*26	*26	..	..	..
*8	*8	..	..	*26	*26	..	..	..
*8	*8	..	..	*27	*27	..	..	..
..	..	..	..	6,976	2,293	3,224	..	1,459
..	..	..	..	7,560	2,882	3,217	..	1,461
..	..	..	..	7,852	2,305	4,016	..	1,530
..	..	..	..	8,448	2,218	4,435	..	1,796
..	..	..	..	567	..	567	..	..
..	..	..	..	549	..	549	..	..
..	..	..	..	485	..	485	..	..
..	..	..	..	515	..	515	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Liberia	2010	*250	*250	..	..	..	..	..
	2011	*300	*300	..	..	..	..	..
	2012	*300	*300	..	..	..	..	..
	2013	*300	*300	..	..	..	..	..
Libya	2010	32,753	32,753	..	..	..	..	..
	2011	27,614	27,614	..	..	..	..	..
	2012	33,980	33,980	..	..	..	..	..
	2013	30,283	30,283	..	..	..	..	..
Madagascar	2010	1,360	649	711	..	..	0	..
	2011	1,438	747	690	..	..	0	..
	2012	1,520	765	755	..	..	0	..
	2013	1,594	784	809	..	..	*1	..
Malawi	2010	2,024	*181	1,843	..	..	..	..
	2011	1,979	*181	1,798	..	..	..	..
	2012	*1,666	*181	*1,485	..	..	..	..
	2013	*1,666	*181	*1,485	..	..	..	..
Mali	2010	1,292	597	695	..	..	..	..
	2011	1,381	654	727	..	..	..	..
	2012	1,363	579	783	..	..	..	..
	2013	1,510	532	978	..	..	..	..
Mauritania	2010	727	727	..	..	..	..	..
	2011	744	744	..	..	..	..	..
	2012	824	824	..	..	..	..	..
	2013	790	790	..	..	..	..	..
Mauritius	2010	2,690	2,586	101	..	3	..	..
	2011	2,731	2,671	57	..	3	..	..
	2012	2,797	2,718	74	..	4	1	..
	2013	2,888	2,786	95	..	4	3	..
Morocco	2010	22,853	18,563	3,631	..	659	..	..
	2011	24,364	21,533	2,139	..	692	..	..
	2012	26,495	23,951	1,816	..	728	..	..
	2013	28,134	23,663	2,990	..	1,481	..	..
Mozambique	2010	16,666	19	16,647	..	..	..	..
	2011	16,830	20	16,810	..	..	..	..
	2012	15,166	21	15,145	..	..	..	..
	2013	15,645	840	14,805	..	..	..	..
Namibia	2010	1,488	224	1,264	..	..	..	..
	2011	1,607	9	1,598	..	..	..	..
	2012	1,538	67	1,471	..	..	..	..
	2013	1,712	72	1,640	..	..	..	..
Niger	2010	292	292	..	..	..	0	..
	2011	324	324	..	..	..	0	..
	2012	392	392	..	..	..	0	..
	2013	438	438	..	..	..	0	..
Nigeria	2010	26,121	19,747	6,374	..	..	..	..
	2011	27,034	21,151	5,883	..	..	..	..
	2012	28,706	23,047	5,659	..	..	..	..
	2013	28,961	23,635	5,326	..	..	..	..
Réunion	2010	2,700	2,065	542	..	17	76	..
	2011	2,750	2,195	401	..	12	142	..
	2012	2,812	2,114	488	..	19	191	..
	2013	2,813	2,017	557	..	14	225	..
Rwanda	2010	281	169	112	..	..	0	..
	2011	346	196	149	..	..	0	..
	2012	393	211	182	..	..	0	..
	2013	413	265	148	..	..	0	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
*200	*200	..	..	*50	*50	..	..	..
*200	*200	..	..	*100	*100	..	..	..
*200	*200	..	..	*100	*100	..	..	..
*200	*200	..	..	*100	*100	..	..	..
..	..	..	..	32,753	32,753	..	..	..
..	..	..	..	27,614	27,614	..	..	..
..	..	..	..	33,980	33,980	..	..	..
..	..	..	..	30,283	30,283	..	..	..
*170	*170	..	..	1,190	479	711	..	0
*170	*170	..	..	1,268	577	690	..	0
*170	*170	..	..	1,350	595	755	..	0
*170	*170	..	..	1,424	614	809	..	*1
*180	*176	*4	..	1,844	*5	1,839	..	..
*181	*176	*5	..	1,798	*5	1,793	..	..
*181	*176	*5	..	*1,485	*5	*1,480	..	..
*181	*176	*5	..	*1,485	*5	*1,480	..	..
52	52	..	..	1,240	545	695	..	..
*52	*52	..	..	1,329	602	727	..	..
*52	*52	..	..	1,311	527	783	..	..
52	52	..	..	1,458	480	978	..	..
301	301	..	..	426	426	..	..	..
309	309	..	..	436	436	..	..	..
323	323	..	..	501	501	..	..	..
320	320	..	..	470	470	..	..	..
1,590	1,590	..	..	1,100	996	101	..	3
1,601	1,601	..	..	1,130	1,070	57	..	3
1,651	1,650	..	1	1,146	1,068	74	..	4
1,710	1,707	..	3	1,178	1,079	95	..	4
153	153	..	..	22,700	18,410	3,631	..	659
217	217	..	..	24,147	21,316	2,139	..	692
139	139	..	..	26,356	23,812	1,816	..	728
1,180	1,180	..	..	26,954	22,483	2,990	..	1,481
357	..	357	..	16,309	19	16,290	..	..
348	..	348	..	16,482	20	16,462	..	..
263	..	263	..	14,903	21	14,882	..	..
263	..	263	..	15,382	840	14,542	..	..
..	..	..	..	1,488	224	1,264	..	..
..	..	..	..	1,607	9	1,598	..	..
..	..	..	..	1,538	67	1,471	..	..
..	..	..	..	1,712	72	1,640	..	..
23	23	..	0	269	269	..	..	..
54	54	..	0	270	270	..	..	..
54	54	..	0	338	338	..	..	..
39	39	..	0	399	399	..	..	..
6,765	6,635	130	..	19,356	13,112	6,244	..	..
7,002	6,882	120	..	20,032	14,269	5,763	..	..
7,435	7,320	115	..	21,271	15,727	5,544	..	..
5,271	5,162	109	..	23,690	18,473	5,217	..	..
..	..	..	..	2,700	2,065	542	..	93
..	..	..	..	2,750	2,195	401	..	154
..	..	..	..	2,812	2,114	488	..	209
..	..	..	..	2,813	2,017	557	..	239
..	..	..	..	281	169	112	..	0
..	..	..	..	346	196	149	..	0
..	..	..	..	393	211	182	..	0
..	..	..	..	413	265	148	..	0



Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Sao Tome and Principe	2010	57	52	5	..	..	..	..
	2011	*60	*54	*6	..	..	..	..
	2012	*67	*60	*7	..	..	..	..
	2013	*67	*60	*7	..	..	..	..
Senegal	2010	2,618	2,618	..	..	..	0	..
	2011	2,560	2,560	..	..	..	0	..
	2012	2,917	2,917	..	..	..	0	..
	2013	3,403	3,335	..	..	..	4	64
Seychelles	2010	301	301	..	..	..	..	..
	2011	324	324	..	..	..	..	..
	2012	336	336	..	..	..	..	..
	2013	354	347	..	..	7	..	..
Sierra Leone	2010	*171	22	*149	..	..	..	..
	2011	176	22	153	..	..	..	..
	2012	179	61	118	..	..	..	..
	2013	164	59	105	..	..	..	..
Somalia	2010	327	327	..	..	..	..	..
	2011	334	334	..	..	..	..	..
	2012	340	340	..	..	..	..	..
	2013	350	350	..	..	..	..	..
South Africa	2010	259,608	242,401	5,067	12,099	34	7	..
	2011	262,538	243,979	5,019	13,502	37	1	..
	2012	257,919	241,678	4,211	11,954	37	39	..
	2013	256,073	237,647	4,040	14,106	37	243	..
South Sudan	2010	..	..	..	..	..	..	..
	2011	..	..	..	..	..	..	..
	2012	445	443	..	..	..	2	..
	2013	472	470	..	..	..	2	..
St. Helena and Depend.	2010	9	8	..	..	1	..	..
	2011	9	8	..	..	1	..	..
	2012	10	9	..	..	1	0	..
	2013	11	10	..	..	1	0	..
Sudan	2010	..	..	..	..	..	..	..
	2011	..	..	..	..	..	..	..
	2012	9,510	2,891	6,619	..	..	..	..
	2013	10,607	2,290	8,317	..	..	..	..
Sudan (former)	2010	7,499	1,297	6,202	..	..	..	..
	2011	8,455	1,988	6,467	..	..	..	..
	2012	..	..	..	..	..	..	..
	2013	..	..	..	..	..	..	..
Swaziland	2010	560	*272	288	..	..	..	..
	2011	654	*321	333	..	..	..	..
	2012	*622	*350	272	..	..	..	..
	2013	*590	*350	240	..	..	..	..
Togo	2010	179	86	93	..	..	..	..
	2011	128	22	106	..	..	..	..
	2012	111	22	89	..	..	..	..
	2013	111	22	89	..	..	..	..
Tunisia	2010	16,369	15,705	50	..	139	0	475
	2011	16,497	16,142	54	..	109	2	190
	2012	18,059	17,537	110	..	196	3	213
	2013	18,382	17,740	60	..	358	12	212
Uganda	2010	*2,456	*851	*1,605	..	..	..	..
	2011	*2,588	897	*1,691	..	..	..	..
	2012	*2,640	*915	*1,725	..	..	..	..
	2013	*2,861	*915	*1,946	..	..	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	57	52	5	..	..
..	..	..	..	*60	*54	*6	..	..
..	..	..	..	*67	*60	*7	..	..
..	..	..	..	*67	*60	*7	..	..
818	818	..	0	1,800	1,800	..	..	..
1,203	1,203	..	0	1,357	1,357	..	..	..
1,496	1,496	..	0	1,421	1,421	..	..	..
673	605	..	68	2,730	2,730	..	..	..
..	..	..	..	301	301	..	..	..
..	..	..	..	324	324	..	..	..
..	..	..	..	336	336	..	..	..
..	..	..	..	354	347	..	..	7
..	..	..	..	*171	22	*149	..	..
..	..	..	..	176	22	153	..	..
..	..	..	..	179	61	118	..	..
..	..	..	..	164	59	105	..	..
..	..	..	..	327	327	..	..	..
..	..	..	..	334	334	..	..	..
..	..	..	..	340	340	..	..	..
..	..	..	..	350	350	..	..	..
8,344	8,190	154	..	251,264	234,211	4,913	12,099	41
10,792	10,639	153	..	251,746	233,340	4,866	13,502	38
10,403	10,275	128	..	247,516	231,403	4,083	11,954	76
11,222	11,099	123	..	244,851	226,548	3,917	14,106	280
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
234	233	..	1	211	210	..	..	1
246	245	..	1	226	225	..	..	1
..	..	..	..	9	8	..	..	1
..	..	..	..	9	8	..	..	1
..	..	..	..	10	9	..	..	1
..	..	..	..	11	10	..	..	1
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
*74	*74	..	..	9,436	2,817	6,619	..	..
*320	*320	..	..	10,287	1,970	8,317	..	..
..	..	..	..	7,499	1,297	6,202	..	..
..	..	..	..	8,455	1,988	6,467	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
*272	*272	..	..	288	0	288	..	..
*321	*321	..	..	333	0	333	..	..
*342	*342	..	..	280	8	272	..	..
*342	*342	..	..	248	*8	240	..	..
10	10	..	..	169	76	93	..	..
11	11	..	..	117	11	106	..	..
11	11	..	..	100	11	89	..	..
11	11	..	..	100	11	89	..	..
1,023	548	..	475	15,346	15,157	50	..	139
696	504	..	192	15,801	15,638	54	..	109
634	418	..	216	17,425	17,119	110	..	196
745	521	..	224	17,637	17,219	60	..	358
*81	*29	*52	..	*2,375	*823	*1,553	..	..
*85	*30	*55	..	*2,503	867	*1,636	..	..
*87	*31	*56	..	*2,553	*884	*1,669	..	..
*87	*31	*56	..	*2,774	*884	*1,890	..	..

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	2010	5,274	2,566	2,701	..	..	7	..
	2011	5,093	3,091	1,993	..	..	9	..
	2012	5,589	3,809	1,767	..	..	13	..
	2013	5,574	3,842	1,717	..	..	15	..
Zambia	2010	11,308	35	11,273	..	..	..	..
	2011	11,482	46	11,436	..	..	..	..
	2012	11,856	42	11,814	..	..	..	..
	2013	*13,318	*38	*13,280	..	..	..	..
Zimbabwe	2010	8,640	2,841	5,799	..	..	..	..
	2011	9,165	3,964	5,201	..	..	..	..
	2012	9,124	3,737	5,387	..	..	..	..
	2013	9,483	4,501	4,982	..	..	..	..
<b>America, North</b>	<b>2010</b>	<b>5,375,073</b>	<b>3,602,638</b>	<b>698,469</b>	<b>935,468</b>	<b>105,849</b>	<b>4,180</b>	<b>28,470</b>
	<b>2011</b>	<b>5,407,396</b>	<b>3,533,222</b>	<b>780,090</b>	<b>925,083</b>	<b>133,706</b>	<b>6,581</b>	<b>28,714</b>
	<b>2012</b>	<b>5,350,448</b>	<b>3,512,178</b>	<b>735,662</b>	<b>904,761</b>	<b>158,469</b>	<b>10,562</b>	<b>28,816</b>
	<b>2013</b>	<b>5,392,368</b>	<b>3,482,419</b>	<b>735,974</b>	<b>936,593</b>	<b>187,965</b>	<b>16,307</b>	<b>33,111</b>
Anguilla	2010	99	99	..	..	..	..	..
	2011	95	95	..	..	..	..	..
	2012	90	90	..	..	..	..	..
	2013	89	89	..	..	..	..	..
Antigua and Barbuda	2010	*326	*326	..	..	..	..	..
	2011	*325	*325	..	..	..	..	..
	2012	*327	*327	..	..	..	..	..
	2013	*330	*330	..	..	..	..	..
Aruba	2010	940	834	..	..	107	..	..
	2011	931	818	..	..	113	..	..
	2012	915	778	..	..	136	..	..
	2013	*928	*790	..	..	*138	..	..
Bahamas	2010	2,011	2,011	..	..	..	..	..
	2011	2,054	2,054	..	..	..	..	..
	2012	1,901	1,901	..	..	..	..	..
	2013	1,885	1,885	..	..	..	..	..
Barbados	2010	1,028	1,028	..	..	..	..	..
	2011	1,049	1,049	..	..	..	..	..
	2012	1,129	1,129	..	..	..	..	..
	2013	1,016	1,016	..	..	..	..	..
Belize	2010	415	152	263	..	..	..	..
	2011	384	140	245	..	..	..	..
	2012	*424	*150	*275	..	..	..	..
	2013	*371	*131	*240	..	..	..	..
Bermuda	2010	742	742	..	..	..	..	..
	2011	*726	*726	..	..	..	..	..
	2012	*692	*692	..	..	..	..	..
	2013	*673	*673	..	..	..	..	..
Bonaire, St Eustatius, Saba	2010	..	..	..	..	..	..	..
	2011	..	..	..	..	..	..	..
	2012	*119	*119	..	..	..	..	..
	2013	*122	*122	..	..	..	..	..
British Virgin Islands	2010	*128	*128	..	..	..	..	..
	2011	131	131	..	..	..	..	..
	2012	*130	*130	..	..	..	..	..
	2013	*130	*130	..	..	..	..	..
Canada	2010	599,082	148,094	351,461	90,658	8,724	117	28
	2011	633,070	153,211	375,797	93,589	10,187	260	26
	2012	633,187	146,329	380,340	94,862	11,310	319	27
	2013	651,919	145,296	391,861	102,789	11,594	364	15

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
7	..	..	7	5,267	2,566	2,701	..	..
9	..	..	9	5,084	3,091	1,993	..	..
13	..	..	13	5,576	3,809	1,767	..	..
15	..	..	15	5,559	3,842	1,717	..	..
272	6	266	..	11,036	29	11,007	..	..
276	*6	270	..	11,206	40	11,166	..	..
285	*6	279	..	11,571	36	11,535	..	..
*285	*6	*279	..	*13,033	*32	*13,001	..	..
105	105	..	..	8,535	2,736	5,799	..	..
110	110	..	..	9,055	3,854	5,201	..	..
113	113	..	..	9,011	3,624	5,387	..	..
114	114	..	..	9,369	4,387	4,982	..	..
<b>252,636</b>	<b>216,615</b>	<b>30,784</b>	<b>5,237</b>	<b>5,122,438</b>	<b>3,386,023</b>	<b>667,685</b>	<b>935,468</b>	<b>133,263</b>
<b>261,172</b>	<b>219,767</b>	<b>34,152</b>	<b>7,253</b>	<b>5,146,224</b>	<b>3,313,455</b>	<b>745,938</b>	<b>925,083</b>	<b>161,748</b>
<b>273,436</b>	<b>227,471</b>	<b>36,353</b>	<b>9,612</b>	<b>5,077,012</b>	<b>3,284,707</b>	<b>699,309</b>	<b>904,761</b>	<b>188,235</b>
<b>285,199</b>	<b>234,534</b>	<b>36,719</b>	<b>13,946</b>	<b>5,107,169</b>	<b>3,247,885</b>	<b>699,254</b>	<b>936,593</b>	<b>223,437</b>
..	..	..	..	99	99	..	..	..
..	..	..	..	95	95	..	..	..
..	..	..	..	90	90	..	..	..
..	..	..	..	89	89	..	..	..
*1	*1	..	..	*325	*325	..	..	..
*1	*1	..	..	*324	*324	..	..	..
*1	*1	..	..	*326	*326	..	..	..
*1	*1	..	..	*329	*329	..	..	..
..	..	..	..	940	834	..	..	107
..	..	..	..	931	818	..	..	113
..	..	..	..	915	778	..	..	136
..	..	..	..	*928	*790	..	..	*138
*74	*74	..	..	1,937	1,937	..	..	..
*74	*74	..	..	1,980	1,980	..	..	..
*74	*74	..	..	1,827	1,827	..	..	..
74	74	..	..	1,811	1,811	..	..	..
..	..	..	..	1,028	1,028	..	..	..
*5	*5	..	..	1,044	1,044	..	..	..
*4	*4	..	..	1,125	1,125	..	..	..
*3	*3	..	..	1,013	1,013	..	..	..
81	81	..	..	334	71	263	..	..
71	71	..	..	314	*69	245	..	..
*72	*72	..	..	*352	*77	*275	..	..
*63	*63	..	..	*308	*68	*240	..	..
12	12	..	..	730	730	..	..	..
12	12	..	..	*714	*714	..	..	..
*12	*12	..	..	*680	*680	..	..	..
*12	*12	..	..	*661	*661	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	*119	*119	..	..	..
..	..	..	..	*122	*122	..	..	..
..	..	..	..	*128	*128	..	..	..
..	..	..	..	131	131	..	..	..
..	..	..	..	*130	*130	..	..	..
..	..	..	..	*130	*130	..	..	..
49,908	22,699	27,207	2	549,174	125,395	324,254	90,658	8,867
56,397	25,881	30,515	1	576,673	127,330	345,282	93,589	10,472
56,156	24,118	32,034	4	577,031	122,211	348,306	94,862	11,652
57,244	25,980	31,246	18	594,675	119,316	360,615	102,789	11,955

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	2010	624	624	..	..	..	..	..
	2011	626	626	..	..	..	..	..
	2012	607	607	..	..	..	..	..
	2013	616	616	..	..	..	..	..
Costa Rica	2010	9,583	786	7,262	..	359	0	1,176
	2011	9,831	1,002	7,135	..	414	0	1,280
	2012	10,174	1,009	7,233	..	528	1	1,403
	2013	12,243	1,379	8,208	..	924	3	1,729
Cuba	2010	17,387	17,290	97	..	..	..	..
	2011	17,759	17,660	99	..	..	..	..
	2012	18,432	18,321	111	..	..	..	..
	2013	19,140	19,012	127	..	..	..	..
Curaçao	2010	..	..	..	..	..	..	..
	2011	..	..	..	..	..	..	..
	2012	933	933	..	..	..	..	..
	2013	917	917	..	..	..	..	..
Dominica	2010	99	76	23	..	..	..	..
	2011	100	65	36	..	..	..	..
	2012	102	75	27	..	..	..	..
	2013	101	64	37	..	..	..	..
Dominican Republic	2010	16,116	14,700	1,416	..	0	..	..
	2011	16,701	15,174	1,513	..	14	..	..
	2012	17,746	15,867	1,783	..	96	..	..
	2013	18,799	16,685	1,872	..	243	..	..
El Salvador	2010	5,985	2,376	2,084	..	..	..	1,525
	2011	5,837	2,292	2,011	..	..	..	1,534
	2012	5,972	2,610	1,842	..	..	..	1,520
	2013	5,896	2,568	1,785	..	..	..	1,543
Greenland	2010	401	120	281	..	..	..	..
	2011	*412	*96	*316	..	..	..	..
	2012	416	*93	323	..	..	..	..
	2013	416	*91	325	..	..	..	..
Grenada	2010	209	209	..	..	..	..	..
	2011	204	204	..	..	..	..	..
	2012	200	200	..	..	..	..	..
	2013	197	197	..	..	..	..	..
Guadeloupe	2010	*1,809	*1,634	*14	..	*54	*55	*52
	2011	*1,767	*1,555	*14	..	*53	*94	*51
	2012	*1,805	*1,589	*14	..	*54	*96	*52
	2013	*1,809	*1,541	*20	..	*60	*103	*85
Guatemala	2010	8,893	4,773	3,849	..	..	..	271
	2011	9,181	4,759	4,176	..	..	..	246
	2012	9,412	4,708	4,458	..	..	..	246
	2013	9,826	4,959	4,654	..	..	..	212
Haiti	2010	587	410	177	..	..	..	..
	2011	974	853	121	..	..	..	..
	2012	1,148	927	221	..	..	..	..
	2013	1,105	964	141	..	..	..	..
Honduras	2010	6,777	3,697	3,080	..	..	..	..
	2011	7,653	4,721	2,815	..	117	..	..
	2012	7,740	4,615	2,787	..	338	..	..
	2013	8,074	5,025	2,739	..	310	..	..
Jamaica	2010	4,217	4,012	152	..	53	..	..
	2011	4,171	3,926	152	..	92	..	..
	2012	4,156	3,898	151	..	108	..	..
	2013	4,256	4,017	124	..	115	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	624	624	..	..	..
..	..	..	..	626	626	..	..	..
..	..	..	..	607	607	..	..	..
..	..	..	..	616	616	..	..	..
2,041	145	1,390	507	7,542	641	5,872	..	1,028
1,995	139	1,304	552	7,837	863	5,831	..	1,143
2,186	179	1,357	651	7,988	830	5,877	..	1,281
*2,191	183	*1,357	*651	10,052	1,196	6,851	..	2,005
803	803	..	..	16,584	16,487	97	..	..
815	815	..	..	16,944	16,845	99	..	..
836	836	..	..	17,596	17,485	111	..	..
877	877	..	..	18,263	18,135	127	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
494	494	..	..	439	439	..	..	..
486	486	..	..	431	431	..	..	..
..	..	..	..	99	76	23	..	..
..	..	..	..	100	65	36	..	..
..	..	..	..	102	75	27	..	..
..	..	..	..	101	64	37	..	..
2,859	2,859	..	..	13,257	11,841	1,416	..	0
2,919	2,919	..	..	13,782	12,254	1,513	..	14
3,055	3,055	..	..	14,690	12,812	1,783	..	96
3,190	3,190	..	..	15,610	13,495	1,872	..	243
616	616	..	..	5,369	1,760	2,084	..	1,525
626	626	..	..	5,211	1,666	2,011	..	1,534
649	649	..	..	5,323	1,961	1,842	..	1,520
641	641	..	..	5,255	1,927	1,785	..	1,543
65	65	..	..	336	55	281	..	..
*56	*56	..	..	*356	*40	*316	..	..
*55	*55	..	..	361	*38	323	..	..
*54	*54	..	..	362	*37	325	..	..
..	..	..	..	209	209	..	..	..
..	..	..	..	204	204	..	..	..
..	..	..	..	200	200	..	..	..
..	..	..	..	197	197	..	..	..
..	..	..	..	*1,809	*1,634	*14	..	*161
..	..	..	..	*1,767	*1,555	*14	..	*198
..	..	..	..	*1,805	*1,589	*14	..	*202
..	..	..	..	*1,809	*1,541	*20	..	*248
733	711	22	..	8,160	4,062	3,827	..	271
687	665	22	..	8,494	4,094	4,154	..	246
712	689	23	..	8,700	4,019	4,435	..	246
657	634	23	..	9,169	4,326	4,631	..	212
..	..	..	..	587	410	177	..	..
31	31	..	..	943	822	121	..	..
48	48	..	..	1,100	879	221	..	..
50	50	..	..	1,055	914	141	..	..
12	12	..	..	6,765	3,685	3,080	..	..
483	483	..	..	7,170	4,238	2,815	..	117
509	509	..	..	7,231	4,106	2,787	..	338
531	531	..	..	7,543	4,494	2,739	..	310
1,409	1,356	..	53	2,807	2,656	152	..	..
1,411	1,319	..	92	2,760	2,607	152	..	..
1,542	1,434	..	108	2,615	2,464	151	..	..
1,914	1,799	..	115	2,343	2,218	124	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Martinique	2010	*1,808	*1,764	..	..	*2	*43	..
	2011	*1,764	*1,720	..	..	*2	*43	..
	2012	*1,780	*1,736	..	..	*2	*43	..
	2013	*1,764	*1,719	..	..	*2	*44	..
Mexico	2010	271,050	220,162	37,121	5,879	1,239	31	6,618
	2011	295,837	241,296	36,266	10,089	1,648	31	6,507
	2012	293,862	243,707	31,855	8,770	3,644	69	5,817
	2013	297,079	246,916	28,002	11,800	4,185	106	6,070
Montserrat	2010	*23	*23	..	..	..	..	..
	2011	*23	*23	..	..	..	..	..
	2012	*23	*23	..	..	..	..	..
	2013	*23	*23	..	..	..	..	..
Neth. Antilles (former)	2010	1,323	1,323	..	..	..	..	..
	2011	1,325	1,325	..	..	..	..	..
	2012	..	..	..	..	..	..	..
	2013	..	..	..	..	..	..	..
Nicaragua	2010	3,659	2,690	504	..	163	..	302
	2011	3,824	2,896	444	..	211	..	273
	2012	4,031	2,759	419	..	330	..	523
	2013	4,163	2,466	456	..	562	..	679
Panama	2010	7,419	3,225	4,194	..	..	..	..
	2011	7,857	3,759	4,098	..	..	..	..
	2012	8,606	3,218	5,388	..	..	..	..
	2013	8,962	3,808	5,154	..	..	..	..
Puerto Rico	2010	23,497	23,365	133	..	..	..	..
	2011	22,507	22,358	150	..	..	..	..
	2012	22,556	22,429	125	..	..	2	..
	2013	21,743	21,509	91	..	118	26	..
Sint Maarten (Dutch part)	2010	..	..	..	..	..	..	..
	2011	..	..	..	..	..	..	..
	2012	*281	*281	..	..	..	..	..
	2013	*287	*287	..	..	..	..	..
St. Kitts-Nevis	2010	190	190	..	..	..	..	..
	2011	*196	*196	..	..	..	..	..
	2012	204	204	..	..	..	..	..
	2013	*204	*204	..	..	..	..	..
St. Lucia	2010	381	381	..	..	..	..	..
	2011	385	385	..	..	..	..	..
	2012	385	385	..	..	..	..	..
	2013	383	383	..	..	..	..	..
St. Pierre-Miquelon	2010	45	44	..	..	1	..	..
	2011	45	44	..	..	1	..	..
	2012	43	43	..	..	1	..	..
	2013	47	46	..	..	*1	..	..
St. Vincent-Grenadines	2010	*142	*117	*24	..	..	..	..
	2011	*142	*118	*24	..	..	..	..
	2012	*144	*120	*24	..	..	..	..
	2013	*144	*120	*24	..	..	..	..
Trinidad and Tobago	2010	8,485	8,485	..	..	..	..	..
	2011	8,772	8,772	..	..	..	..	..
	2012	9,132	9,132	..	..	..	..	..
	2013	9,505	9,505	..	..	..	..	..
Turks and Caicos Islands	2010	*214	*214	..	..	..	..	..
	2011	*214	*214	..	..	..	..	..
	2012	*227	*227	..	..	..	..	..
	2013	*227	*227	..	..	..	..	..

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
*30	*30	..	..	*1,778	*1,734	..	..	*45
*30	*30	..	..	*1,734	*1,690	..	..	*45
*30	*30	..	..	*1,750	*1,706	..	..	*45
*30	*30	..	..	*1,734	*1,689	..	..	*46
28,513	27,027	382	1,104	242,537	193,135	36,739	5,879	6,784
29,478	27,686	470	1,322	266,359	213,610	35,796	10,089	6,864
32,159	29,654	538	1,967	261,703	214,053	31,317	8,770	7,563
38,506	35,484	558	2,464	258,573	211,432	27,444	11,800	7,897
..	..	..	..	*23	*23	..	..	..
..	..	..	..	*23	*23	..	..	..
..	..	..	..	*23	*23	..	..	..
..	..	..	..	*23	*23	..	..	..
701	701	..	..	622	622	..	..	..
702	702	..	..	623	623	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
429	429	..	..	3,230	2,261	504	..	465
419	419	..	..	3,405	2,477	444	..	484
502	501	1	..	3,529	2,258	418	..	853
535	534	1	..	3,628	1,932	455	..	1,241
22	22	..	..	7,397	3,203	4,194	..	..
23	23	..	..	7,834	3,736	4,098	..	..
26	26	..	..	8,580	3,192	5,388	..	..
33	33	..	..	8,929	3,775	5,154	..	..
*250	*250	..	..	23,247	23,115	133	..	..
*250	*250	..	..	22,257	22,108	150	..	..
*250	*250	..	..	22,306	22,179	125	..	2
*250	*250	..	..	21,493	21,259	91	..	144
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	*281	*281	..	..	..
..	..	..	..	*287	*287	..	..	..
*6	*6	..	..	184	184	..	..	..
*6	*6	..	..	*190	*190	..	..	..
*5	*5	..	..	199	199	..	..	..
*5	*5	..	..	*199	*199	..	..	..
..	..	..	..	381	381	..	..	..
..	..	..	..	385	385	..	..	..
..	..	..	..	385	385	..	..	..
..	..	..	..	383	383	..	..	..
..	..	..	..	45	44	..	..	1
..	..	..	..	45	44	..	..	1
..	..	..	..	43	43	..	..	1
..	..	..	..	47	46	..	..	*1
..	..	..	..	*142	*117	*24	..	..
..	..	..	..	*142	*118	*24	..	..
..	..	..	..	*144	*120	*24	..	..
..	..	..	..	*144	*120	*24	..	..
70	70	..	..	8,415	8,415	..	..	..
72	72	..	..	8,700	8,700	..	..	..
75	75	..	..	9,057	9,057	..	..	..
78	78	..	..	9,427	9,427	..	..	..
..	..	..	..	*214	*214	..	..	..
..	..	..	..	*214	*214	..	..	..
..	..	..	..	*227	*227	..	..	..
..	..	..	..	*227	*227	..	..	..



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	2010	4,378,422	3,135,578	286,333	838,931	95,148	3,934	18,498
	2011	4,349,571	3,037,683	344,679	821,405	120,854	6,153	18,797
	2012	4,290,547	3,019,949	298,287	801,129	141,922	10,032	19,228
	2013	4,306,160	2,985,891	290,113	822,004	169,713	15,661	22,778
United States Virgin Is.	2010	958	958	..	..	..	..	..
	2011	951	951	..	..	..	..	..
	2012	872	872	..	..	..	..	..
	2013	820	820	..	..	..	..	..
<b>America, South</b>	<b>2010</b>	<b>1,010,830</b>	<b>315,399</b>	<b>670,975</b>	<b>21,694</b>	<b>2,647</b>	<b>3</b>	<b>112</b>
	<b>2011</b>	<b>1,055,075</b>	<b>314,508</b>	<b>715,303</b>	<b>22,030</b>	<b>3,230</b>	<b>5</b>	<b>0</b>
	<b>2012</b>	<b>1,097,749</b>	<b>370,163</b>	<b>699,025</b>	<b>22,433</b>	<b>6,007</b>	<b>122</b>	<b>0</b>
	<b>2013</b>	<b>1,130,056</b>	<b>422,023</b>	<b>678,081</b>	<b>21,657</b>	<b>7,857</b>	<b>273</b>	<b>164</b>
Argentina	2010	125,594	84,480	33,918	7,171	25	0	..
	2011	129,892	91,592	31,901	6,371	26	2	..
	2012	135,207	98,719	29,716	6,395	369	8	..
	2013	140,863	100,758	33,422	6,207	461	15	..
Bolivia (Plur. State of)	2010	6,777	4,592	2,182	..	..	3	..
	2011	7,219	4,869	2,347	..	..	3	..
	2012	7,661	5,306	2,352	..	..	3	..
	2013	8,063	5,525	2,535	..	..	3	..
Brazil	2010	515,798	95,809	403,289	14,523	2,177	..	..
	2011	531,759	85,062	428,333	15,659	2,705	..	..
	2012	552,498	116,068	415,342	16,038	5,050	..	..
	2013	570,836	157,810	390,992	15,450	6,579	5	..
Chile	2010	60,434	38,273	21,717	..	332	..	112
	2011	65,713	44,366	21,009	..	338	..	0
	2012	69,751	49,184	20,158	..	409	..	0
	2013	73,065	52,602	19,737	..	554	8	164
Colombia	2010	60,234	19,669	40,527	..	38	..	..
	2011	66,983	17,515	49,427	..	41	..	..
	2012	68,742	20,690	47,997	..	55	..	..
	2013	71,419	26,423	44,938	..	58	..	..
Ecuador	2010	19,509	10,870	8,636	..	3	..	..
	2011	20,544	9,408	11,133	..	3	0	..
	2012	22,847	10,607	12,238	..	2	0	..
	2013	23,259	12,161	11,039	..	57	2	..
Falkland Is. (Malvinas)	2010	*18	*12	..	..	*6	..	..
	2011	*18	*12	..	..	*6	..	..
	2012	*18	*12	..	..	*6	..	..
	2013	*18	*12	..	..	*6	..	..
French Guiana	2010	*823	*379	*444	..	..	0	..
	2011	*836	*377	*459	..	..	0	..
	2012	853	273	529	..	..	51	..
	2013	858	326	489	..	..	43	..
Guyana	2010	868	868	..	..	..	..	..
	2011	910	910	..	..	..	..	..
	2012	942	942	..	..	..	..	..
	2013	962	962	..	..	..	..	..
Paraguay	2010	54,066	1	54,065	..	..	..	..
	2011	57,625	1	57,624	..	..	..	..
	2012	60,237	3	60,234	..	..	..	..
	2013	60,381	3	60,378	..	..	..	..
Peru	2010	35,890	15,847	20,042	..	1	0	..
	2011	*39,223	17,248	*21,974	..	1	0	..
	2012	39,909	*17,816	22,032	..	1	60	..
	2013	43,330	20,812	22,320	..	1	197	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
163,952	158,598	1,783	3,571	4,214,470	2,976,980	284,550	838,931	114,009
164,569	157,442	1,841	5,286	4,185,002	2,880,241	342,838	821,405	140,518
173,984	164,702	2,400	6,882	4,116,563	2,855,247	295,887	801,129	164,300
177,774	163,542	3,534	10,698	4,128,386	2,822,349	286,579	822,004	197,454
*48	*48	..	..	909	909	..	..	..
*40	*40	..	..	911	911	..	..	..
0	0	..	..	872	872	..	..	..
0	0	..	..	820	820	..	..	..
<b>105,913</b>	<b>82,548</b>	<b>23,250</b>	<b>115</b>	<b>904,917</b>	<b>232,851</b>	<b>647,725</b>	<b>21,694</b>	<b>2,647</b>
<b>112,993</b>	<b>87,509</b>	<b>25,473</b>	<b>10</b>	<b>942,082</b>	<b>226,998</b>	<b>689,830</b>	<b>22,030</b>	<b>3,224</b>
<b>115,226</b>	<b>91,921</b>	<b>23,279</b>	<b>26</b>	<b>982,523</b>	<b>278,242</b>	<b>675,745</b>	<b>22,433</b>	<b>6,102</b>
<b>123,340</b>	<b>98,747</b>	<b>24,566</b>	<b>26</b>	<b>1,006,716</b>	<b>323,276</b>	<b>653,515</b>	<b>21,657</b>	<b>8,267</b>
15,325	15,233	92	..	110,269	69,247	33,826	7,171	25
15,052	14,994	58	..	114,840	76,598	31,843	6,371	28
15,229	15,171	58	..	119,978	83,548	29,658	6,395	377
14,716	14,663	53	..	126,147	86,095	33,369	6,207	476
119	116	..	3	6,658	4,476	2,182	..	..
123	120	..	3	7,096	4,749	2,347	..	..
123	120	..	3	7,538	5,186	2,352	..	..
59	56	..	3	8,004	5,469	2,535	..	..
72,995	52,305	20,690	..	442,803	43,504	382,599	14,523	2,177
77,033	54,321	22,712	..	454,726	30,741	405,621	15,659	2,705
78,029	57,566	20,463	..	474,469	58,502	394,879	16,038	5,050
86,161	64,105	22,053	3	484,675	93,705	368,939	15,450	6,581
3,674	3,226	336	112	56,760	35,047	21,381	..	332
5,427	5,365	56	6	60,286	39,001	20,953	..	332
5,778	5,577	179	22	63,973	43,607	19,979	..	387
6,422	6,228	175	19	66,643	46,374	19,562	..	707
3,440	3,217	223	..	56,794	16,452	40,304	..	38
4,101	3,435	*666	..	62,882	14,080	48,761	..	41
4,187	3,658	*529	..	64,555	17,032	47,468	..	55
4,025	3,343	682	..	67,394	23,080	44,256	..	58
3,763	3,306	457	..	15,746	7,564	8,179	..	3
4,450	3,945	505	..	16,094	5,463	10,628	..	3
4,795	4,284	511	..	18,052	6,323	11,727	..	2
5,008	4,496	512	..	18,251	7,665	10,527	..	59
*2	*2	..	..	*16	*10	..	..	*6
*2	*2	..	..	*16	*10	..	..	*6
*2	*2	..	..	*16	*10	..	..	*6
*2	*2	..	..	*16	*10	..	..	*6
..	..	..	..	*823	*379	*444	..	0
..	..	..	..	*836	*377	*459	..	0
..	..	..	..	853	273	529	..	51
..	..	..	..	858	326	489	..	43
299	299	..	..	568	568	..	..	..
306	306	..	..	605	605	..	..	..
285	285	..	..	658	658	..	..	..
302	302	..	..	660	660	..	..	..
..	..	..	..	54,066	1	54,065	..	..
..	..	..	..	57,625	1	57,624	..	..
..	..	..	..	60,237	3	60,234	..	..
..	..	..	..	60,381	3	60,378	..	..
2,361	1,877	484	..	33,529	13,970	19,558	..	1
2,558	2,028	530	..	*36,666	15,220	*21,444	..	1
2,675	2,134	541	..	37,234	*15,682	21,491	..	61
2,666	2,055	610	..	40,665	18,757	21,709	..	198

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Suriname	2010	1,723	755	968	..	..	..	..
	2011	1,951	1,005	946	..	..	..	..
	2012	1,972	974	998	..	..	..	..
	2013	2,184	1,703	481	..	..	..	..
Uruguay	2010	10,727	2,255	8,407	..	65	..	..
	2011	10,342	3,754	6,479	..	110	..	..
	2012	10,596	5,060	5,421	..	115	..	..
	2013	11,657	3,311	8,206	..	141	..	..
Venezuela (Bolivar. Rep.)	2010	118,370	41,590	76,780	..	..	..	..
	2011	122,059	38,389	83,670	..	..	..	..
	2012	126,516	44,508	82,008	..	..	..	..
	2013	123,160	39,615	83,545	..	..	..	..
<b>Asia</b>	<b>2010</b>	<b>9,238,946</b>	<b>7,328,405</b>	<b>1,209,909</b>	<b>584,511</b>	<b>53,683</b>	<b>4,901</b>	<b>57,537</b>
	<b>2011</b>	<b>9,814,652</b>	<b>8,061,555</b>	<b>1,191,661</b>	<b>425,377</b>	<b>82,587</b>	<b>6,547</b>	<b>46,925</b>
	<b>2012</b>	<b>10,282,745</b>	<b>8,374,274</b>	<b>1,391,234</b>	<b>345,675</b>	<b>109,583</b>	<b>9,017</b>	<b>52,962</b>
	<b>2013</b>	<b>10,991,916</b>	<b>8,906,814</b>	<b>1,488,831</b>	<b>347,227</b>	<b>191,359</b>	<b>27,325</b>	<b>30,361</b>
Afghanistan	2010	892	125	767	..	..	..	..
	2011	1,005	176	829	..	..	..	..
	2012	1,022	144	878	..	..	..	..
	2013	*1,022	*218	*804	..	..	..	..
Armenia	2010	6,491	1,438	2,556	2,490	7	..	..
	2011	7,433	2,390	2,489	2,548	6	..	..
	2012	8,036	3,399	2,311	2,322	4	..	..
	2013	7,710	3,173	2,173	2,360	4	..	..
Azerbaijan	2010	18,710	15,263	3,446	..	1	..	..
	2011	20,294	17,618	2,676	..	0	..	..
	2012	22,988	21,167	1,821	..	0	..	..
	2013	23,354	21,863	1,489	..	1	1	..
Bahrain	2010	23,441	23,441	..	..	..	..	..
	2011	24,338	24,338	..	..	..	..	..
	2012	24,770	24,770	..	..	..	..	..
	2013	25,916	25,916	..	..	..	..	..
Bangladesh	2010	40,790	40,061	729	..	..	..	..
	2011	44,153	43,281	872	..	..	..	..
	2012	48,562	47,785	777	..	..	..	..
	2013	53,043	52,000	894	..	4	145	..
Bhutan	2010	7,328	0	7,328	..	..	..	..
	2011	7,068	0	7,067	..	..	..	..
	2012	6,827	0	6,827	..	..	..	..
	2013	7,640	1	7,640	..	..	..	..
Brunei Darussalam	2010	3,792	3,792	..	..	..	..	..
	2011	3,725	3,723	..	..	..	2	..
	2012	3,930	3,928	..	..	..	2	..
	2013	4,402	4,400	..	..	..	2	..
Cambodia	2010	994	965	26	..	..	3	..
	2011	1,053	1,005	45	..	..	3	..
	2012	1,434	914	517	..	..	3	..
	2013	1,778	759	1,016	..	..	3	..
China	2010	4,207,160	3,331,928	722,172	73,880	44,622	..	34,558
	2011	4,713,019	3,833,702	698,945	86,350	70,331	..	23,691
	2012	4,987,553	3,892,814	872,107	97,394	95,978	..	29,260
	2013	5,431,637	4,247,009	920,291	111,613	141,197	5,564	5,963
China, Hong Kong SAR	2010	38,292	38,292	..	..	..	..	..
	2011	39,026	39,026	..	..	..	..	..
	2012	38,752	38,752	..	..	..	..	..
	2013	39,063	39,063	..	..	..	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
1,391	423	968	..	332	332	..	..	..
1,604	658	946	..	347	347	..	..	..
1,446	448	998	..	526	526	..	..	..
1,514	1,033	481	..	670	670	..	..	..
829	829	..	0	9,899	1,426	8,407	..	65
811	810	..	1	9,531	2,944	6,479	..	109
867	865	..	1	9,730	4,195	5,421	..	114
928	927	..	*1	10,730	2,384	8,206	..	140
1,715	1,715	..	..	116,655	39,875	76,780	..	..
1,526	1,526	..	..	120,533	36,863	83,670	..	..
1,811	1,811	..	..	124,705	42,697	82,008	..	..
1,537	1,537	..	..	121,623	38,078	83,545	..	..
<b>796,311</b>	<b>767,951</b>	<b>19,929</b>	<b>8,431</b>	<b>8,442,636</b>	<b>6,560,454</b>	<b>1,189,980</b>	<b>584,511</b>	<b>107,691</b>
<b>890,997</b>	<b>859,086</b>	<b>21,276</b>	<b>10,636</b>	<b>8,923,655</b>	<b>7,202,469</b>	<b>1,170,385</b>	<b>425,377</b>	<b>125,423</b>
<b>916,314</b>	<b>882,818</b>	<b>20,899</b>	<b>12,597</b>	<b>9,366,431</b>	<b>7,491,456</b>	<b>1,370,335</b>	<b>345,675</b>	<b>158,965</b>
<b>1,058,957</b>	<b>1,012,537</b>	<b>22,334</b>	<b>24,085</b>	<b>9,932,960</b>	<b>7,894,277</b>	<b>1,466,497</b>	<b>347,227</b>	<b>224,959</b>
270	5	265	..	622	120	502	..	..
286	5	281	..	719	171	548	..	..
301	5	296	..	721	139	582	..	..
*276	*5	*271	..	*746	*213	*533	..	..
..	..	..	..	6,491	1,438	2,556	2,490	7
..	..	..	..	7,433	2,390	2,489	2,548	6
..	..	..	..	8,036	3,399	2,311	2,322	4
..	..	..	..	7,710	3,173	2,173	2,360	4
260	260	..	..	18,450	15,003	3,446	..	1
301	301	..	..	19,993	17,317	2,676	..	0
1,630	1,630	..	..	21,358	19,537	1,821	..	0
1,798	1,798	..	..	21,556	20,065	1,489	..	2
10,211	10,211	..	..	13,230	13,230	..	..	..
10,632	10,632	..	..	13,706	13,706	..	..	..
10,510	10,510	..	..	14,260	14,260	..	..	..
11,166	11,166	..	..	14,750	14,750	..	..	..
12,036	12,036	..	..	28,754	28,025	729	..	..
12,951	12,951	..	..	31,202	30,330	872	..	..
13,208	13,208	..	..	35,354	34,577	777	..	..
14,277	14,277	..	..	38,766	37,723	894	..	149
..	..	..	..	7,328	0	7,328	..	..
..	..	..	..	7,068	0	7,067	..	..
..	..	..	..	6,827	0	6,827	..	..
..	..	..	..	7,640	1	7,640	..	..
352	352	..	..	3,440	3,440	..	..	..
330	330	..	..	3,395	3,393	..	..	2
406	406	..	..	3,524	3,522	..	..	2
460	460	..	..	3,942	3,940	..	..	2
..	..	..	..	994	965	26	..	3
..	..	..	..	1,053	1,005	45	..	3
..	..	..	..	1,434	914	517	..	3
..	..	..	..	1,778	759	1,016	..	3
270,219	270,219	..	..	3,936,941	3,061,709	722,172	73,880	79,180
310,913	310,913	..	..	4,402,106	3,522,789	698,945	86,350	94,022
315,707	315,707	..	..	4,671,846	3,577,107	872,107	97,394	125,238
344,432	344,432	..	..	5,087,205	3,902,577	920,291	111,613	152,724
..	..	..	..	38,292	38,292	..	..	..
..	..	..	..	39,026	39,026	..	..	..
..	..	..	..	38,752	38,752	..	..	..
..	..	..	..	39,063	39,063	..	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
China, Macao SAR	2010	1,077	1,077	..	..	..	..	..
	2011	886	886	..	..	..	..	..
	2012	561	561	..	..	..	..	..
	2013	413	413	..	..	..	..	..
Cyprus	2010	5,322	5,284	..	..	31	7	..
	2011	4,929	4,803	..	..	114	12	..
	2012	4,717	4,510	..	..	185	22	..
	2013	4,290	4,012	..	..	231	47	..
Georgia	2010	10,124	757	9,367	..	..	..	..
	2011	10,194	2,304	7,890	..	..	..	..
	2012	9,695	2,472	7,223	..	..	..	..
	2013	10,059	1,788	8,271	..	..	..	..
India	2010	954,539	813,787	114,486	26,266	..	..	..
	2011	973,006	836,978	103,741	32,287	..	..	..
	2012	1,035,264	888,538	113,855	32,871	..	..	..
	2013	1,193,480	980,599	141,637	34,228	33,583	3,433	..
Indonesia	2010	169,570	142,752	17,456	..	4	1	9,357
	2011	182,389	160,593	12,419	..	5	1	9,371
	2012	196,181	173,957	12,799	..	5	3	9,417
	2013	216,186	189,835	16,930	..	1	6	9,414
Iran (Islamic Rep. of)	2010	232,965	223,266	9,526	..	163	0	10
	2011	240,052	227,428	12,058	327	217	0	22
	2012	254,276	239,752	12,447	1,847	207	0	23
	2013	262,434	242,909	14,582	4,546	376	0	21
Iraq	2010	48,909	44,142	4,767	..	..	..	..
	2011	54,240	50,100	4,140	..	..	..	..
	2012	61,704	56,280	5,424	..	..	..	..
	2013	73,556	67,766	5,790	..	..	..	..
Israel	2010	58,591	58,450	31	..	8	70	32
	2011	59,679	59,371	29	..	7	192	80
	2012	63,003	62,595	33	..	6	369	0
	2013	59,941	59,418	28	..	6	489	0
Japan	2010	1,117,123	727,762	90,682	288,230	4,017	3,800	2,632
	2011	1,051,281	845,298	91,709	101,761	4,677	5,160	2,676
	2012	1,034,328	920,334	83,645	15,939	4,838	6,963	2,609
	2013	1,045,293	929,027	84,886	9,303	5,201	14,280	2,596
Jordan	2010	14,777	14,713	61	..	3	..	..
	2011	14,647	14,589	55	..	3	..	..
	2012	16,596	16,532	61	..	3	..	..
	2013	17,263	17,205	55	..	3	..	..
Kazakhstan	2010	82,646	74,624	8,022	..	0	..	..
	2011	86,586	78,703	7,883	..	0	..	..
	2012	91,207	83,567	7,637	..	3	..	..
	2013	95,368	87,631	7,731	..	5	1	..
Korea, Dem.Ppl's.Rep.	2010	21,665	8,265	13,400	..	..	..	..
	2011	19,227	6,027	13,200	..	..	..	..
	2012	19,236	5,736	13,500	..	..	..	..
	2013	19,524	5,822	13,702	..	..	..	..
Korea, Republic of	2010	499,508	342,502	6,472	148,596	817	772	349
	2011	523,286	358,505	7,831	154,723	863	917	447
	2012	534,618	374,116	7,652	150,327	917	1,103	503
	2013	541,996	390,858	8,394	138,784	1,149	1,605	1,206
Kuwait	2010	57,029	57,029	..	..	..	..	..
	2011	57,457	57,457	..	..	..	..	..
	2012	62,655	62,655	..	..	..	..	..
	2013	60,982	60,982	..	..	..	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
133	133	..	..	944	944	..	..	..
153	153	..	..	733	733	..	..	..
169	169	..	..	392	392	..	..	..
186	186	..	..	227	227	..	..	..
76	74	..	2	5,246	5,210	..	..	36
68	66	..	2	4,861	4,737	..	..	124
60	58	..	2	4,657	4,452	..	..	205
60	58	..	2	4,230	3,954	..	..	276
..	..	..	..	10,124	757	9,367	..	..
..	..	..	..	10,194	2,304	7,890	..	..
..	..	..	..	9,695	2,472	7,223	..	..
..	..	..	..	10,059	1,788	8,271	..	..
109,693	109,464	229	..	844,846	704,323	114,257	26,266	..
128,401	128,172	*229	..	844,605	708,806	103,512	32,287	..
*128,401	*128,172	*229	..	906,863	760,366	113,626	32,871	..
190,737	188,122	129	2,486	1,002,743	792,477	141,508	34,228	34,530
18,441	16,808	1,629	4	151,129	125,944	15,827	..	9,358
33,767	31,659	2,103	5	148,622	128,934	10,316	..	9,372
40,566	38,287	2,274	5	155,615	135,670	10,525	..	9,420
47,150	43,233	3,916	1	169,036	146,602	13,014	..	9,420
7,579	7,579	..	..	225,386	215,687	9,526	..	173
9,836	9,836	..	..	230,216	217,592	12,058	327	239
10,740	10,740	..	..	243,536	229,012	12,447	1,847	230
6,549	6,549	..	..	255,885	236,360	14,582	4,546	397
..	..	..	..	48,909	44,142	4,767	..	..
..	..	..	..	54,240	50,100	4,140	..	..
..	..	..	..	61,704	56,280	5,424	..	..
..	..	..	..	73,556	67,766	5,790	..	..
1,718	1,638	4	76	56,873	56,812	27	..	34
1,824	1,552	5	267	57,855	57,819	24	..	12
1,515	1,142	4	369	61,488	61,453	29	..	6
1,379	885	5	489	58,562	58,533	23	..	6
142,310	117,921	16,507	7,882	974,813	609,841	74,175	288,230	2,567
143,387	116,282	17,331	9,774	907,894	729,016	74,378	101,761	2,739
143,449	115,467	16,285	11,697	890,879	804,867	67,360	15,939	2,713
154,412	118,698	16,322	19,392	890,881	810,329	68,564	9,303	2,685
291	291	..	..	14,486	14,422	61	..	3
257	257	..	..	14,390	14,332	55	..	3
241	241	..	..	16,355	16,291	61	..	3
286	286	..	..	16,977	16,919	55	..	3
..	..	..	..	82,646	74,624	8,022	..	0
..	..	..	..	86,586	78,703	7,883	..	0
..	..	..	..	91,207	83,567	7,637	..	3
1	..	..	1	95,367	87,631	7,731	..	5
..	..	..	..	21,665	8,265	13,400	..	..
..	..	..	..	19,227	6,027	13,200	..	..
..	..	..	..	19,236	5,736	13,500	..	..
..	..	..	..	19,524	5,822	13,702	..	..
28,482	28,218	..	264	471,026	314,284	6,472	148,596	1,674
29,690	29,305	..	385	493,596	329,200	7,831	154,723	1,842
30,958	30,637	..	321	503,660	343,479	7,652	150,327	2,202
28,163	27,712	..	451	513,833	363,146	8,394	138,784	3,509
..	..	..	..	57,029	57,029	..	..	..
..	..	..	..	57,457	57,457	..	..	..
..	..	..	..	62,655	62,655	..	..	..
..	..	..	..	60,982	60,982	..	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Kyrgyzstan	2010	12,100	992	11,108	..	..	..	..
	2011	15,158	1,019	14,139	..	..	..	..
	2012	15,168	989	14,179	..	..	..	..
	2013	14,011	914	13,097	..	..	..	..
Lao People's Dem. Rep.	2010	3,755	*300	3,262	..	..	*193	..
	2011	3,802	*300	3,309	..	..	*193	..
	2012	*3,802	*300	*3,309	..	..	*193	..
	2013	4,471	*300	3,976	..	..	*195	..
Lebanon	2010	15,712	14,873	839	..	..	..	..
	2011	16,365	15,560	805	..	..	..	..
	2012	14,826	13,819	1,007	..	..	..	..
	2013	18,153	16,953	1,200	..	..	..	..
Malaysia	2010	116,808	110,556	6,251	..	..	1	..
	2011	124,894	117,269	7,624	..	..	1	..
	2012	134,421	125,319	9,054	..	..	48	..
	2013	138,331	127,604	10,586	..	..	141	..
Maldives	2010	256	256	..	..	..	..	..
	2011	274	274	..	..	..	..	..
	2012	297	297	..	..	..	..	..
	2013	303	303	..	..	..	..	..
Mongolia	2010	4,313	4,313	..	..	..	..	..
	2011	4,536	4,536	..	..	..	..	..
	2012	4,816	4,816	..	..	..	..	..
	2013	5,020	5,020	..	..	..	..	..
Myanmar	2010	8,625	2,436	6,189	..	..	..	..
	2011	10,425	2,907	7,518	..	..	..	..
	2012	10,965	3,199	7,766	..	..	..	..
	2013	12,247	3,424	8,823	..	..	..	..
Nepal	2010	3,208	3	3,205	..	..	..	..
	2011	3,492	2	3,490	..	..	..	..
	2012	3,543	10	3,533	..	..	..	..
	2013	3,130	10	3,120	..	..	..	..
Oman	2010	19,819	19,819	..	..	..	..	..
	2011	21,874	21,874	..	..	..	..	..
	2012	25,017	25,017	..	..	..	..	..
	2013	26,240	26,240	..	..	..	..	..
Other Asia	2010	246,996	197,113	7,255	41,629	976	23	..
	2011	252,016	201,594	6,902	42,116	1,371	33	..
	2012	250,336	199,770	8,606	40,422	1,262	276	..
	2013	252,038	200,124	8,610	41,639	1,344	321	..
Pakistan	2010	94,383	59,152	31,811	3,420	..	..	..
	2011	95,090	61,308	28,517	5,265	..	..	..
	2012	*96,126	*61,716	*29,857	*4,553	..	..	..
	2013	97,792	61,865	31,173	4,754	..	..	..
Philippines	2010	67,777	49,964	7,820	..	62	1	9,929
	2011	69,210	49,463	9,715	..	88	1	9,942
	2012	72,956	52,360	10,269	..	75	1	10,250
	2013	75,300	55,592	10,036	..	66	1	9,605
Qatar	2010	28,144	28,144	..	..	..	..	..
	2011	30,730	30,730	..	..	..	..	..
	2012	34,787	34,787	..	..	..	..	..
	2013	34,668	34,668	..	..	..	..	..
Saudi Arabia	2010	240,067	240,067	..	..	..	0	..
	2011	250,077	250,077	..	..	..	0	..
	2012	271,680	271,679	..	..	..	1	..
	2013	284,017	284,016	..	..	..	1	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	12,100	992	11,108	..	..
..	..	..	..	15,158	1,019	14,139	..	..
..	..	..	..	15,168	989	14,179	..	..
7	7	..	..	14,004	907	13,097	..	..
*193	..	..	*193	3,562	*300	3,262	..	..
*193	..	..	*193	3,609	*300	3,309	..	..
*193	..	..	*193	*3,609	*300	*3,309	..	..
*195	..	..	*195	4,276	*300	3,976	..	..
4,500	4,500	..	..	11,212	10,373	839	..	..
4,750	4,750	..	..	11,615	10,810	805	..	..
6,000	6,000	..	..	8,826	7,819	1,007	..	..
7,000	7,000	..	..	11,153	9,953	1,200	..	..
1,888	1,888	..	..	114,920	108,668	6,251	..	1
5,133	5,133	..	..	119,761	112,136	7,624	..	1
6,154	6,154	..	..	128,267	119,165	9,054	..	48
5,020	5,020	..	..	133,311	122,584	10,586	..	141
..	..	..	..	256	256	..	..	..
..	..	..	..	274	274	..	..	..
..	..	..	..	297	297	..	..	..
..	..	..	..	303	303	..	..	..
28	28	..	..	4,285	4,285	..	..	..
*30	*30	..	..	4,506	4,506	..	..	..
*30	*30	..	..	4,786	4,786	..	..	..
*30	*30	..	..	4,990	4,990	..	..	..
..	..	..	..	8,625	2,436	6,189	..	..
..	..	..	..	10,425	2,907	7,518	..	..
42	..	42	..	10,923	3,199	7,725	..	..
945	495	450	..	11,302	2,929	8,373	..	..
44	..	44	..	3,164	3	3,161	..	..
59	..	59	..	3,433	2	3,431	..	..
84	..	84	..	3,459	10	3,449	..	..
137	..	137	..	2,993	10	2,983	..	..
..	..	..	..	19,819	19,819	..	..	..
..	..	..	..	21,874	21,874	..	..	..
..	..	..	..	25,017	25,017	..	..	..
..	..	..	..	26,240	26,240	..	..	..
37,331	37,331	..	..	209,665	159,782	7,255	41,629	999
36,489	36,489	..	..	215,527	165,105	6,902	42,116	1,404
34,223	34,223	..	..	216,113	165,547	8,606	40,422	1,538
37,192	37,192	..	..	214,846	162,932	8,610	41,639	1,665
37,214	37,214	..	..	57,169	21,938	31,811	3,420	..
39,674	39,674	..	..	55,416	21,634	28,517	5,265	..
*40,174	*40,174	..	..	*55,952	*21,542	*29,857	*4,553	..
40,000	40,000	..	..	57,792	21,865	31,173	4,754	..
*34	*17	*17	..	67,743	49,947	7,803	..	9,992
*34	*17	*17	..	69,176	49,446	9,698	..	10,032
*34	*17	*17	..	72,922	52,343	10,252	..	10,327
*34	*17	*17	..	75,266	55,575	10,019	..	9,672
25,722	25,722	..	..	2,422	2,422	..	..	..
28,370	28,370	..	..	2,360	2,360	..	..	..
31,799	31,799	..	..	2,988	2,988	..	..	..
31,578	31,578	..	..	3,090	3,090	..	..	..
53,585	53,585	..	..	186,482	186,482	..	..	0
59,797	59,797	..	..	190,280	190,280	..	..	0
64,548	64,548	..	..	207,132	207,131	..	..	1
85,117	85,117	..	..	198,900	198,899	..	..	1



Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Singapore	2010	45,361	45,361	..	..	..	..	..
	2011	46,000	46,000	..	..	..	..	..
	2012	46,971	46,971	..	..	..	..	..
	2013	47,964	47,964	..	..	..	..	..
Sri Lanka	2010	10,801	5,096	5,645	..	53	7	..
	2011	11,600	6,916	4,584	..	92	9	..
	2012	11,897	8,439	3,302	..	147	10	..
	2013	12,044	4,870	6,929	..	236	*10	..
State of Palestine	2010	473	473	..	..	..	..	..
	2011	569	569	..	..	..	..	..
	2012	461	461	..	..	..	..	..
	2013	536	536	..	..	..	..	..
Syrian Arab Republic	2010	46,413	43,821	2,592	..	..	..	..
	2011	42,025	38,742	3,283	..	..	..	..
	2012	31,188	27,951	3,237	..	..	..	..
	2013	25,933	22,933	3,000	..	..	..	..
Tajikistan	2010	16,436	35	16,401	..	..	..	..
	2011	16,234	38	16,196	..	..	..	..
	2012	16,998	74	16,924	..	..	..	..
	2013	17,115	44	17,071	..	..	..	..
Thailand	2010	159,518	153,953	5,537	..	3	23	2
	2011	151,595	143,632	7,935	..	*3	*23	2
	2012	166,471	158,013	8,431	..	*3	*23	1
	2013	165,707	158,573	5,748	..	305	1,080	1
Timor-Leste	2010	137	137	..	..	..	..	..
	2011	140	140	..	..	..	..	..
	2012	126	126	..	..	..	..	..
	2013	295	295	..	..	..	..	..
Turkey	2010	211,208	155,828	51,796	..	2,916	..	668
	2011	229,393	171,638	52,338	..	4,723	..	694
	2012	239,496	174,872	57,865	..	5,860	..	899
	2013	240,154	171,622	59,420	..	7,557	..	1,555
Turkmenistan	2010	16,663	16,660	3	..	..	..	..
	2011	17,220	17,220	0	..	..	..	..
	2012	17,750	17,750	0	..	..	..	..
	2013	18,870	18,870	..	..	..	..	..
United Arab Emirates	2010	93,949	93,949	..	..	..	..	..
	2011	99,137	99,137	..	..	..	..	..
	2012	106,222	106,222	..	..	..	..	..
	2013	109,979	109,979	..	..	..	..	..
Uzbekistan	2010	51,700	40,854	10,846	..	..	..	..
	2011	52,400	42,160	10,240	..	..	..	..
	2012	52,500	41,290	11,210	..	..	..	..
	2013	54,200	42,640	11,560	..	..	..	..
Viet Nam	2010	94,835	66,780	28,055	..	..	..	..
	2011	105,219	63,944	41,188	..	87	..	..
	2012	118,937	65,676	53,171	..	*90	..	..
	2013	128,546	70,287	58,169	..	*90	..	..
Yemen	2010	7,755	7,755	..	..	..	..	..
	2011	6,204	6,204	..	..	..	..	..
	2012	7,073	7,073	..	..	..	..	..
	2013	8,501	8,501	..	..	..	..	..
Europe	2010	4,905,800	2,723,926	790,185	1,202,516	150,232	23,349	15,593
	2011	4,852,279	2,703,741	707,402	1,196,643	181,018	47,452	16,023
	2012	4,894,117	2,660,623	761,891	1,175,478	207,741	71,836	16,549
	2013	4,841,508	2,531,828	810,710	1,158,543	237,443	86,353	16,631

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
1,263	1,263	..	..	44,097	44,097	..	..	..
1,315	1,315	..	..	44,685	44,685	..	..	..
1,775	1,775	..	..	45,197	45,197	..	..	..
2,804	2,804	..	..	45,160	45,160	..	..	..
18	0	10	7	10,783	5,096	5,634	..	53
18	0	11	8	11,582	6,916	4,573	..	93
18	0	11	8	11,879	8,439	3,291	..	149
*20	0	*11	*9	12,024	4,870	6,918	..	236
..	..	..	..	473	473	..	..	..
..	..	..	..	569	569	..	..	..
..	..	..	..	461	461	..	..	..
..	..	..	..	536	536	..	..	..
1,082	1,082	..	..	45,331	42,739	2,592	..	..
1,060	1,060	..	..	40,965	37,682	3,283	..	..
752	752	..	..	30,436	27,199	3,237	..	..
498	498	..	..	25,435	22,435	3,000	..	..
..	..	..	..	16,436	35	16,401	..	..
..	..	..	..	16,234	38	16,196	..	..
..	..	..	..	16,998	74	16,924	..	..
..	..	..	..	17,115	44	17,071	..	..
15,136	15,136	..	..	144,382	138,817	5,537	..	28
14,936	14,936	..	..	136,659	128,696	7,935	..	*28
15,134	15,134	..	..	151,337	142,879	8,431	..	*27
29,532	28,668	..	864	136,175	129,905	5,748	..	522
..	..	..	..	137	137	..	..	..
..	..	..	..	140	140	..	..	..
..	..	..	..	126	126	..	..	..
..	..	..	..	295	295	..	..	..
12,447	11,221	1,224	2	198,761	144,607	50,572	..	3,582
12,243	11,001	1,240	2	217,150	160,637	51,098	..	5,415
13,254	11,594	1,658	2	226,242	163,278	56,207	..	6,757
13,071	11,800	1,076	195	227,083	159,822	58,344	..	8,917
..	..	..	..	16,663	16,660	3	..	..
..	..	..	..	17,220	17,220	0	..	..
..	..	..	..	17,750	17,750	0	..	..
..	..	..	..	18,870	18,870	..	..	..
..	..	..	..	93,949	93,949	..	..	..
..	..	..	..	99,137	99,137	..	..	..
..	..	..	..	106,222	106,222	..	..	..
..	..	..	..	109,979	109,979	..	..	..
191	191	..	..	51,509	40,663	10,846	..	..
197	197	..	..	52,203	41,963	10,240	..	..
193	193	..	..	52,307	41,097	11,210	..	..
199	199	..	..	54,001	42,441	11,560	..	..
*3,113	*3,113	..	..	91,722	63,667	28,055	..	..
3,633	3,633	..	..	101,586	60,311	41,188	..	87
*3,700	*3,700	..	..	115,237	61,976	53,171	..	*90
*4,000	*4,000	..	..	124,546	66,287	58,169	..	*90
450	450	..	..	7,305	7,305	..	..	..
269	269	..	..	5,935	5,935	..	..	..
346	346	..	..	6,727	6,727	..	..	..
245	245	..	..	8,256	8,256	..	..	..
<b>350,331</b>	<b>326,522</b>	<b>15,502</b>	<b>8,307</b>	<b>4,555,468</b>	<b>2,397,403</b>	<b>774,683</b>	<b>1,202,516</b>	<b>180,866</b>
<b>353,782</b>	<b>326,631</b>	<b>15,358</b>	<b>11,793</b>	<b>4,498,497</b>	<b>2,377,110</b>	<b>692,044</b>	<b>1,196,643</b>	<b>232,700</b>
<b>352,991</b>	<b>321,126</b>	<b>15,612</b>	<b>16,253</b>	<b>4,541,126</b>	<b>2,339,497</b>	<b>746,279</b>	<b>1,175,478</b>	<b>279,872</b>
<b>346,896</b>	<b>308,948</b>	<b>16,610</b>	<b>21,338</b>	<b>4,494,612</b>	<b>2,222,880</b>	<b>794,100</b>	<b>1,158,543</b>	<b>319,089</b>

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Albania	2010	7,744	1	7,743	..	..	..	..
	2011	4,217	59	4,158	..	..	..	..
	2012	4,725	0	4,725	..	..	..	..
	2013	6,956	0	6,956	..	..	..	..
Andorra	2010	113	13	100	..	..	..	..
	2011	103	12	91	..	..	..	..
	2012	88	12	76	..	..	..	..
	2013	115	13	102	..	..	..	..
Austria	2010	71,128	27,398	41,558	..	2,064	89	19
	2011	65,813	25,909	37,782	..	1,936	174	12
	2012	72,617	22,101	47,705	..	2,462	337	12
	2013	68,301	18,815	45,739	..	3,151	582	14
Belarus	2010	34,895	34,849	45	..	1	..	..
	2011	32,192	32,149	42	..	1	..	..
	2012	30,799	30,723	70	..	6	..	..
	2013	31,507	31,361	138	..	8	..	..
Belgium	2010	95,120	43,401	1,668	47,944	1,292	560	255
	2011	90,235	36,963	1,423	48,234	2,312	1,169	134
	2012	83,084	36,004	1,659	40,295	2,751	2,148	227
	2013	83,456	32,500	1,723	42,644	3,635	2,640	314
Bosnia and Herzegovina	2010	17,124	9,098	8,026	..	..	..	..
	2011	15,280	10,893	4,387	..	..	..	..
	2012	14,082	9,867	4,215	..	..	..	..
	2013	17,451	10,215	7,236	..	..	..	..
Bulgaria	2010	46,653	25,001	5,693	15,249	681	15	14
	2011	50,797	29,807	3,691	16,314	861	101	23
	2012	47,329	25,518	3,976	15,785	1,221	814	15
	2013	43,784	22,067	4,795	14,171	1,374	1,361	16
Croatia	2010	14,105	5,531	8,435	..	139	0	..
	2011	10,831	6,010	4,620	..	201	0	..
	2012	10,557	5,425	4,801	..	329	2	..
	2013	13,431	4,797	8,106	..	517	11	..
Czech Republic	2010	85,910	53,581	3,380	27,998	335	616	..
	2011	87,561	54,035	2,664	28,283	397	2,182	..
	2012	87,573	51,824	2,860	30,324	416	2,149	..
	2013	87,065	50,167	3,639	30,745	481	2,033	..
Denmark	2010	38,862	31,026	21	..	7,809	6	..
	2011	35,229	25,423	17	..	9,774	15	..
	2012	30,725	20,334	17	..	10,270	104	..
	2013	34,749	23,095	13	..	11,123	518	..
Estonia	2010	12,964	12,660	27	..	277	..	..
	2011	12,893	12,495	30	..	368	..	..
	2012	11,967	11,491	42	..	434	..	..
	2013	13,275	12,720	26	..	529	..	..
Faeroe Islands	2010	280	199	67	..	14	..	..
	2011	274	167	93	..	15	..	..
	2012	292	181	100	..	11	..	..
	2013	293	180	91	..	22	..	..
Finland	2010	80,667	44,328	12,922	22,800	294	5	318
	2011	73,481	37,058	12,445	23,187	481	5	305
	2012	70,399	29,725	16,859	22,987	494	5	329
	2013	71,251	33,725	12,838	23,606	774	6	302
France	2010	569,246	62,162	67,525	428,521	9,942	620	476
	2011	561,494	54,463	49,865	442,383	12,228	2,078	477
	2012	565,768	56,651	63,594	425,406	15,048	4,017	1,052
	2013	572,517	51,388	75,640	423,685	16,033	4,661	1,110

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	7,744	1	7,743	..	..
..	..	..	..	4,217	59	4,158	..	..
..	..	..	..	4,725	0	4,725	..	..
..	..	..	..	6,956	0	6,956	..	..
..	..	..	..	113	13	100	..	..
..	..	..	..	103	12	91	..	..
..	..	..	..	88	12	76	..	..
..	..	..	..	115	13	102	..	..
9,479	8,403	1,058	18	61,649	18,995	40,500	..	2,154
9,460	8,483	966	11	56,353	17,426	36,816	..	2,111
8,574	8,025	538	11	64,043	14,076	47,167	..	2,800
8,100	7,534	552	14	60,201	11,281	45,187	..	3,733
2,440	2,437	2	1	32,455	32,412	43	..	..
2,588	2,583	4	1	29,604	29,566	38	..	..
3,050	3,042	6	2	27,749	27,681	64	..	4
2,976	2,967	7	2	28,531	28,394	131	..	6
5,297	4,475	..	822	89,823	38,926	1,668	47,944	1,285
6,588	5,275	..	1,313	83,647	31,688	1,423	48,234	2,302
8,264	5,871	..	2,393	74,820	30,133	1,659	40,295	2,733
8,891	5,928	..	2,963	74,565	26,572	1,723	42,644	3,626
402	402	..	..	16,722	8,696	8,026	..	..
325	325	..	..	14,955	10,568	4,387	..	..
343	343	..	..	13,739	9,524	4,215	..	..
369	369	..	..	17,082	9,846	7,236	..	..
242	228	..	14	46,411	24,773	5,693	15,249	696
147	124	..	23	50,650	29,683	3,691	16,314	962
270	255	..	15	47,059	25,263	3,976	15,785	2,035
268	252	..	16	43,516	21,815	4,795	14,171	2,735
455	447	8	..	13,650	5,084	8,427	..	139
516	512	4	..	10,315	5,498	4,616	..	201
388	383	5	..	10,169	5,042	4,796	..	331
332	327	5	..	13,099	4,470	8,101	..	528
9,314	8,628	686	..	76,596	44,953	2,694	27,998	951
8,129	7,626	503	..	79,432	46,409	2,161	28,283	2,579
7,985	7,462	523	..	79,588	44,362	2,337	30,324	2,565
8,218	7,597	621	..	78,847	42,570	3,018	30,745	2,514
2,284	2,278	..	6	36,578	28,748	21	..	7,809
2,161	2,146	..	15	33,068	23,277	17	..	9,774
2,046	1,942	..	104	28,679	18,392	17	..	10,270
2,433	1,915	..	518	32,316	21,180	13	..	11,123
107	106	..	1	12,857	12,554	27	..	276
105	105	..	0	12,788	12,390	30	..	368
98	97	..	1	11,869	11,394	42	..	433
91	86	..	5	13,184	12,634	26	..	524
..	..	..	..	280	199	67	..	14
..	..	..	..	274	167	93	..	15
..	..	..	..	292	181	100	..	11
..	..	..	..	293	180	91	..	22
11,041	9,976	860	205	69,626	34,352	12,062	22,800	412
10,604	9,460	949	195	62,877	27,598	11,496	23,187	596
10,217	8,749	1,244	224	60,182	20,976	15,615	22,987	604
10,106	8,941	975	190	61,145	24,784	11,863	23,606	892
13,069	11,212	770	1,087	556,177	50,950	66,755	428,521	9,951
15,897	13,155	681	2,061	545,597	41,308	49,184	442,383	12,722
22,205	17,186	809	4,210	543,563	39,465	62,785	425,406	15,907
20,053	13,857	1,286	4,910	552,464	37,531	74,354	423,685	16,894

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Germany	2010	632,983	413,207	27,353	140,556	37,793	11,729	2,345
	2011	613,068	410,773	23,511	107,971	48,883	19,599	2,331
	2012	629,812	423,424	27,849	99,460	50,670	26,380	2,029
	2013	633,158	422,523	28,782	97,290	51,708	31,010	1,845
Gibraltar	2010	177	177	..	..	..	..	..
	2011	171	171	..	..	..	..	..
	2012	176	176	..	..	..	..	..
	2013	189	189	..	..	..	..	..
Greece	2010	57,392	47,035	7,485	..	2,714	158	..
	2011	59,436	51,236	4,275	..	3,315	610	..
	2012	60,959	50,824	4,591	..	3,850	1,694	..
	2013	57,152	42,981	6,384	..	4,139	3,648	..
Guernsey	2010	152	152	..	..	..	..	..
	2011	85	85	..	..	..	..	..
	2012	68	68	..	..	..	..	..
	2013	289	289	..	..	..	..	..
Hungary	2010	37,371	20,887	188	15,761	534	1	..
	2011	36,019	19,485	222	15,685	626	1	..
	2012	34,626	17,842	213	15,793	770	8	..
	2013	30,273	13,915	213	15,370	718	25	32
Iceland	2010	17,059	2	12,592	..	..	..	4,465
	2011	17,211	2	12,507	..	..	..	4,702
	2012	17,549	3	12,337	..	..	..	5,209
	2013	18,116	5	12,863	..	3	..	5,245
Ireland	2010	28,602	25,011	776	..	2,815	..	..
	2011	27,472	22,385	707	..	4,380	..	..
	2012	27,596	22,572	1,014	..	4,010	..	..
	2013	26,122	20,657	923	..	4,542	..	..
Isle of Man	2010	498	495	3	..	..	..	..
	2011	499	496	3	..	..	..	..
	2012	296	292	4	..	..	..	..
	2013	*504	*500	*4	..	..	..	..
Italy	2010	302,063	230,472	54,406	..	9,126	1,906	6,153
	2011	302,582	227,711	47,757	..	9,856	10,796	6,462
	2012	299,277	216,811	43,854	..	13,407	18,862	6,343
	2013	289,807	192,237	54,672	..	14,897	21,589	6,412
Jersey	2010	56	56	..	..	..	..	..
	2011	46	46	..	..	..	..	..
	2012	*47	*47	..	..	..	..	..
	2013	*47	*47	..	..	..	..	..
Latvia	2010	6,627	3,058	3,520	..	49	..	..
	2011	6,095	3,137	2,887	..	71	..	..
	2012	6,168	2,347	3,707	..	114	..	..
	2013	6,209	3,177	2,912	..	120	..	..
Liechtenstein	2010	79	4	72	..	..	3	..
	2011	72	4	62	..	..	6	..
	2012	86	4	74	..	..	9	..
	2013	85	3	69	..	..	13	..
Lithuania	2010	5,749	3,980	1,295	..	224	..	250
	2011	4,822	3,034	1,056	..	475	..	257
	2012	5,043	3,337	937	..	540	2	227
	2013	4,762	2,808	1,069	..	603	45	237
Luxembourg	2010	4,590	3,046	1,468	..	55	21	..
	2011	3,718	2,498	1,130	..	64	26	..
	2012	3,818	2,543	1,160	..	77	38	..
	2013	2,888	1,573	1,158	..	83	74	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
52,974	50,872	378	1,724	580,009	362,335	26,975	140,556	50,143
50,614	48,649	327	1,638	562,454	362,124	23,184	107,971	69,175
44,094	42,421	350	1,323	585,718	381,003	27,499	99,460	77,756
44,892	43,466	182	1,244	588,266	379,057	28,600	97,290	83,319
..	..	..	..	177	177	..	..	..
..	..	..	..	171	171	..	..	..
..	..	..	..	176	176	..	..	..
..	..	..	..	189	189	..	..	..
2,492	2,492	..	..	54,900	44,543	7,485	..	2,872
2,553	2,553	..	..	56,883	48,683	4,275	..	3,925
2,351	2,351	..	..	58,608	48,473	4,591	..	5,544
1,885	1,885	..	..	55,267	41,096	6,384	..	7,787
..	..	..	..	152	152	..	..	..
..	..	..	..	85	85	..	..	..
..	..	..	..	68	68	..	..	..
..	..	..	..	289	289	..	..	..
426	425	..	1	36,945	20,462	188	15,761	534
696	695	..	1	35,323	18,790	222	15,685	626
516	508	..	8	34,110	17,334	213	15,793	770
612	555	..	57	29,661	13,360	213	15,370	718
..	..	..	..	17,059	2	12,592	..	4,465
..	..	..	..	17,211	2	12,507	..	4,702
..	..	..	..	17,549	3	12,337	..	5,209
..	..	..	..	18,116	5	12,863	..	5,248
1,947	1,947	..	..	26,655	23,064	776	..	2,815
1,962	1,962	..	..	25,510	20,423	707	..	4,380
2,124	2,124	..	..	25,472	20,448	1,014	..	4,010
2,058	2,058	..	..	24,064	18,599	923	..	4,542
..	..	..	..	498	495	3	..	..
..	..	..	..	499	496	3	..	..
..	..	..	..	296	292	4	..	..
..	..	..	..	*504	*500	*4	..	..
23,866	22,423	927	516	278,197	208,049	53,479	..	16,669
23,563	22,183	868	512	279,019	205,528	46,889	..	26,602
16,057	15,025	573	459	283,220	201,786	43,281	..	38,153
16,073	15,124	627	322	273,734	177,113	54,045	..	42,576
15	15	..	..	41	41	..	..	..
33	33	..	..	13	13	..	..	..
*34	*34	..	..	*13	*13	..	..	..
*34	*34	..	..	*13	*13	..	..	..
83	68	10	5	6,544	2,990	3,510	..	44
88	79	9	0	6,007	3,058	2,878	..	71
184	177	7	0	5,984	2,170	3,700	..	114
257	251	3	3	5,952	2,926	2,909	..	117
..	..	..	..	79	4	72	..	3
..	..	..	..	72	4	62	..	6
..	..	..	..	86	4	74	..	9
..	..	..	..	85	3	69	..	13
552	302	..	250	5,197	3,678	1,295	..	224
600	343	..	257	4,222	2,691	1,056	..	475
787	560	..	227	4,256	2,777	937	..	542
621	384	..	237	4,141	2,424	1,069	..	648
216	187	8	21	4,374	2,859	1,460	..	55
208	178	4	26	3,510	2,320	1,126	..	64
225	182	5	38	3,593	2,361	1,155	..	77
265	185	6	74	2,623	1,388	1,152	..	83

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Malta	2010	2,115	2,115	..	..	..	0	..
	2011	2,194	2,183	..	..	..	11	..
	2012	2,307	2,277	..	..	..	30	..
	2013	2,254	2,222	..	..	..	32	..
Montenegro	2010	4,022	1,272	2,750	..	..	..	..
	2011	2,656	1,452	1,204	..	..	..	..
	2012	2,844	1,367	1,477	..	..	..	..
	2013	3,809	1,311	2,498	..	..	..	..
Netherlands	2010	118,140	109,859	105	3,969	3,993	60	154
	2011	112,968	103,421	57	4,141	5,100	101	148
	2012	102,505	93,103	104	3,915	4,982	254	147
	2013	100,875	91,604	114	2,891	5,627	516	123
Norway	2010	123,640	5,454	117,152	..	879	..	155
	2011	127,632	4,716	121,552	..	1,283	..	81
	2012	147,716	3,354	142,812	..	1,548	..	2
	2013	134,240	3,174	129,022	..	1,894	..	150
Poland	2010	157,657	152,422	3,488	..	1,664	..	83
	2011	163,548	157,477	2,761	..	3,205	..	105
	2012	162,139	154,845	2,465	..	4,747	1	81
	2013	164,557	155,444	2,997	..	6,004	1	111
Portugal	2010	54,090	27,950	16,547	..	9,182	211	200
	2011	52,463	30,693	12,115	..	9,161	280	214
	2012	46,614	29,151	6,660	..	10,259	393	151
	2013	51,672	24,110	14,868	..	12,014	479	201
Republic of Moldova	2010	1,064	985	79	..	0	..	..
	2011	1,016	940	76	..	0	..	..
	2012	932	898	34	..	0	..	..
	2013	905	859	45	..	1	..	..
Romania	2010	60,979	28,807	20,243	11,623	306	0	..
	2011	62,217	34,135	14,946	11,747	1,388	1	..
	2012	59,045	32,594	12,337	11,466	2,640	8	..
	2013	58,887	27,021	15,308	11,618	4,520	420	..
Russian Federation	2010	1,038,030	698,709	168,397	170,415	4	..	505
	2011	1,054,765	713,689	167,608	172,941	5	..	522
	2012	1,070,734	725,399	167,319	177,534	5	..	477
	2013	1,059,092	703,481	182,654	172,508	5	..	444
Serbia	2010	38,103	25,532	12,571	..	..	..	..
	2011	38,600	29,357	9,243	..	..	..	..
	2012	36,799	26,885	9,914	..	..	..	..
	2013	39,877	29,024	10,853	..	..	..	..
Slovakia	2010	27,858	7,572	5,649	14,574	6	17	40
	2011	28,656	8,619	4,146	15,411	5	397	78
	2012	28,664	8,231	4,439	15,495	6	424	69
	2013	28,832	7,283	5,166	15,720	6	588	69
Slovenia	2010	16,433	6,066	4,697	5,657	0	13	..
	2011	16,057	6,074	3,703	6,215	0	65	..
	2012	15,729	5,958	4,080	5,528	0	163	..
	2013	16,087	5,661	4,907	5,300	4	215	..
Spain	2010	301,527	142,410	45,511	61,990	44,271	7,186	159
	2011	293,848	150,730	32,911	57,718	42,918	9,400	171
	2012	297,559	150,312	24,162	61,470	49,472	11,968	175
	2013	283,566	119,169	41,071	56,731	53,903	12,692	..
Sweden	2010	148,563	20,723	66,501	57,828	3,502	9	..
	2011	150,376	17,256	66,556	60,475	6,078	11	..
	2012	166,562	16,283	79,058	64,037	7,165	19	..
	2013	153,166	15,336	61,496	66,457	9,842	35	..

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	2	..	..	2,113	2,113	..	..	0
5	2	..	3	2,189	2,181	..	..	8
26	9	..	17	2,281	2,268	..	..	13
38	6	..	32	2,216	2,216	..	..	0
..	..	..	..	4,022	1,272	2,750	..	..
..	..	..	..	2,656	1,452	1,204	..	..
..	..	..	..	2,844	1,367	1,477	..	..
..	..	..	..	3,809	1,311	2,498	..	..
23,026	22,045	..	981	95,114	87,814	105	3,969	3,226
24,189	22,578	..	1,611	88,779	80,843	57	4,141	3,738
24,347	22,691	..	1,656	78,158	70,412	104	3,915	3,727
23,711	21,766	..	1,945	77,164	69,838	114	2,891	4,321
10,050	5,151	4,773	126	113,590	303	112,379	..	908
9,538	4,379	5,101	58	118,094	337	116,451	..	1,306
8,619	2,897	5,720	2	139,097	457	137,092	..	1,548
8,472	2,695	5,627	150	125,768	479	123,395	..	1,894
7,966	7,881	2	83	149,691	144,541	3,486	..	1,664
8,342	8,235	2	105	155,206	149,242	2,759	..	3,205
8,449	8,365	2	82	153,690	146,480	2,463	..	4,747
8,917	8,802	3	112	155,640	146,642	2,994	..	6,004
7,742	7,720	19	3	46,348	20,230	16,528	..	9,590
8,347	8,251	14	82	44,116	22,442	12,101	..	9,573
8,344	8,184	10	150	38,270	20,967	6,650	..	10,653
9,010	8,780	20	210	42,662	15,330	14,848	..	12,484
38	38	..	..	1,026	947	79	..	0
34	34	..	..	982	906	76	..	0
32	32	..	..	900	866	34	..	0
44	44	..	..	861	815	45	..	1
2,657	2,383	268	6	58,322	26,424	19,975	11,623	300
2,780	2,626	129	25	59,437	31,509	14,817	11,747	1,364
4,252	3,908	158	186	54,793	28,686	12,179	11,466	2,462
6,519	5,918	246	355	52,368	21,103	15,062	11,618	4,585
61,904	60,996	908	..	976,126	637,713	167,489	170,415	509
64,108	63,002	1,106	..	990,657	650,687	166,502	172,941	527
67,181	66,158	1,023	..	1,003,553	659,241	166,296	177,534	482
64,495	63,047	1,448	..	994,597	640,434	181,206	172,508	449
286	286	..	..	37,817	25,246	12,571	..	..
230	230	..	..	38,370	29,127	9,243	..	..
171	171	..	..	36,628	26,714	9,914	..	..
202	202	..	..	39,675	28,822	10,853	..	..
2,040	1,869	110	61	25,818	5,703	5,539	14,574	2
2,492	1,996	101	395	26,164	6,623	4,045	15,411	85
2,536	2,039	88	409	26,128	6,192	4,351	15,495	90
2,470	1,825	106	539	26,362	5,458	5,060	15,720	124
464	292	160	12	15,969	5,774	4,537	5,657	1
434	249	122	63	15,623	5,825	3,581	6,215	2
527	251	119	157	15,202	5,707	3,961	5,528	6
606	247	150	209	15,481	5,414	4,757	5,300	10
38,769	37,722	847	200	262,758	104,688	44,664	61,990	51,416
40,818	39,750	861	207	253,030	110,980	32,050	57,718	52,282
41,427	40,752	462	213	256,132	109,560	23,700	61,470	61,402
38,761	37,929	792	40	244,805	81,240	40,279	56,731	66,555
6,606	6,592	14	..	141,957	14,131	66,487	57,828	3,511
6,015	6,000	15	..	144,361	11,256	66,541	60,475	6,089
6,350	6,333	17	..	160,212	9,950	79,041	64,037	7,184
5,854	5,844	10	..	147,312	9,492	61,486	66,457	9,877



Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Switzerland	2010	67,815	3,531	37,825	26,339	37	83	..
	2011	64,629	3,567	34,133	26,710	70	149	..
	2012	69,893	3,739	40,305	25,441	88	320	..
	2013	70,312	3,720	39,968	25,990	90	544	..
T.F.Yug.Rep. Macedonia	2010	7,260	4,829	2,431	..	..	..	..
	2011	6,759	5,325	1,433	..	..	1	..
	2012	6,262	5,218	1,041	..	..	3	..
	2013	6,094	4,501	1,584	..	..	9	..
Ukraine	2010	188,584	86,229	13,152	89,152	50	1	..
	2011	194,947	93,634	10,946	90,248	89	30	..
	2012	198,878	97,126	10,994	90,137	288	333	..
	2013	194,377	95,487	14,472	83,209	639	570	..
United Kingdom	2010	381,710	302,630	6,718	62,140	10,180	40	2
	2011	367,252	273,968	8,587	68,980	15,472	244	1
	2012	363,410	263,738	8,251	70,405	19,661	1,351	4
	2013	359,154	250,474	7,596	70,608	28,434	2,036	6
<b>Oceania</b>	<b>2010</b>	<b>307,538</b>	<b>254,131</b>	<b>40,280</b>	<b>..</b>	<b>6,749</b>	<b>434</b>	<b>5,944</b>
	<b>2011</b>	<b>308,233</b>	<b>248,674</b>	<b>44,023</b>	<b>..</b>	<b>7,814</b>	<b>1,540</b>	<b>6,182</b>
	<b>2012</b>	<b>304,704</b>	<b>248,479</b>	<b>39,167</b>	<b>..</b>	<b>8,256</b>	<b>2,570</b>	<b>6,233</b>
	<b>2013</b>	<b>303,601</b>	<b>240,351</b>	<b>43,554</b>	<b>..</b>	<b>9,409</b>	<b>3,836</b>	<b>6,452</b>
American Samoa	2010	159	159	..	..	..	..	..
	2011	155	155	..	..	..	..	..
	2012	157	156	..	..	..	1	..
	2013	*156	*155	..	..	..	*1	..
Australia	2010	252,297	233,270	13,549	..	5,052	425	1
	2011	253,300	229,154	16,807	..	5,807	1,531	1
	2012	250,008	227,253	14,083	..	6,113	2,558	1
	2013	249,060	219,644	18,270	..	7,328	3,817	1
Cook Islands	2010	34	34	..	..	..	..	..
	2011	34	34	..	..	..	..	..
	2012	33	33	..	..	..	..	..
	2013	33	33	..	..	..	..	..
Fiji	2010	835	415	414	..	6	..	..
	2011	801	340	456	..	5	..	..
	2012	803	271	525	..	7	..	..
	2013	858	325	527	..	5	..	..
French Polynesia	2010	*817	*538	276	..	..	*3	..
	2011	*761	*533	*225	..	..	*3	..
	2012	*765	*553	*209	..	..	*3	..
	2013	*741	*542	*195	..	..	*4	..
Guam	2010	*1,882	*1,882	..	..	..	..	..
	2011	*1,858	*1,858	..	..	..	..	..
	2012	*1,799	*1,799	..	..	..	..	..
	2013	1,736	1,736	..	..	..	..	..
Kiribati	2010	*24	*24	..	..	..	..	..
	2011	*24	*24	..	..	..	..	..
	2012	*24	*24	..	..	..	..	..
	2013	*24	*24	..	..	..	..	..
Marshall Islands	2010	*114	*114	..	..	..	..	..
	2011	*114	*114	..	..	..	..	..
	2012	*114	*114	..	..	..	..	..
	2013	*114	*114	..	..	..	..	..
Micronesia(Fed. States of)	2010	70	68	..	..	..	*2	..
	2011	66	64	..	..	..	*2	..
	2012	*67	*65	..	..	..	*2	..
	2013	*68	*66	..	..	..	*2	..

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
5,595	2,711	2,801	83	62,220	820	35,024	26,339	37
5,414	2,782	2,483	149	59,215	785	31,650	26,710	70
6,065	2,927	2,818	320	63,828	812	37,487	25,441	88
6,397	3,020	2,833	544	63,915	700	37,135	25,990	90
2	2	..	..	7,258	4,827	2,431	..	..
2	2	..	..	6,757	5,323	1,433	..	1
2	2	..	..	6,260	5,216	1,041	..	3
2	2	..	..	6,092	4,499	1,584	..	9
4,846	4,818	28	..	183,738	81,411	13,124	89,152	51
3,653	3,632	21	..	191,294	90,002	10,925	90,248	119
3,773	3,753	20	..	195,105	93,373	10,974	90,137	621
3,200	3,177	22	1	191,177	92,310	14,450	83,209	1,208
41,637	38,691	865	2,081	340,073	263,939	5,853	62,140	8,141
40,544	36,414	1,088	3,042	326,708	237,554	7,499	68,980	12,675
41,078	35,917	1,115	4,046	322,332	227,821	7,136	70,405	16,970
39,664	31,929	1,089	6,646	319,490	218,545	6,507	70,608	23,830
<b>20,358</b>	<b>19,450</b>	<b>372</b>	<b>537</b>	<b>287,180</b>	<b>234,681</b>	<b>39,908</b>	..	<b>12,590</b>
<b>21,997</b>	<b>19,980</b>	<b>372</b>	<b>1,645</b>	<b>286,236</b>	<b>228,693</b>	<b>43,651</b>	..	<b>13,892</b>
<b>23,702</b>	<b>20,678</b>	<b>373</b>	<b>2,651</b>	<b>281,003</b>	<b>227,801</b>	<b>38,794</b>	..	<b>14,408</b>
<b>21,341</b>	<b>17,055</b>	<b>374</b>	<b>3,913</b>	<b>282,260</b>	<b>223,296</b>	<b>43,180</b>	..	<b>15,784</b>
..	..	..	..	159	159	..	..	..
..	..	..	..	155	155	..	..	..
..	..	..	..	157	156	..	..	1
..	..	..	..	*156	*155	..	..	*1
16,430	16,009	..	421	235,867	217,261	13,549	..	5,057
18,070	16,543	..	1,527	235,230	212,611	16,807	..	5,812
19,677	17,122	..	2,555	230,331	210,131	14,083	..	6,117
16,465	12,652	..	3,813	232,595	206,992	18,270	..	7,333
..	..	..	..	34	34	..	..	..
..	..	..	..	34	34	..	..	..
..	..	..	..	33	33	..	..	..
..	..	..	..	33	33	..	..	..
53	53	..	..	783	363	414	..	6
44	44	..	..	757	295	456	..	5
48	48	..	..	755	223	525	..	7
47	47	..	..	811	278	527	..	5
..	..	..	..	*817	*538	276	..	*3
..	..	..	..	*761	*533	*225	..	*3
..	..	..	..	*765	*553	*209	..	*3
..	..	..	..	*741	*542	*195	..	*4
..	..	..	..	*1,882	*1,882	..	..	..
..	..	..	..	*1,858	*1,858	..	..	..
..	..	..	..	*1,799	*1,799	..	..	..
..	..	..	..	1,736	1,736	..	..	..
..	..	..	..	*24	*24	..	..	..
..	..	..	..	*24	*24	..	..	..
..	..	..	..	*24	*24	..	..	..
..	..	..	..	*24	*24	..	..	..
..	..	..	..	*114	*114	..	..	..
..	..	..	..	*114	*114	..	..	..
..	..	..	..	*114	*114	..	..	..
..	..	..	..	*114	*114	..	..	..
..	..	..	..	70	68	..	..	*2
..	..	..	..	66	64	..	..	*2
..	..	..	..	*67	*65	..	..	*2
..	..	..	..	*68	*66	..	..	*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	2010	23	23	..	..	..	..	..
	2011	23	23	..	..	..	..	..
	2012	24	24	..	..	..	..	..
	2013	*24	*24	..	..	..	..	..
New Caledonia	2010	2,131	1,811	265	..	52	3	..
	2011	2,267	1,843	375	..	46	4	..
	2012	2,288	1,827	399	..	57	5	..
	2013	2,506	1,994	455	..	52	5	..
New Zealand	2010	44,876	12,583	24,716	..	1,634	..	5,943
	2011	44,465	11,218	25,114	..	1,952	..	6,181
	2012	44,255	13,046	22,901	..	2,076	..	6,232
	2013	43,256	11,734	23,044	..	2,020	7	6,451
Niue	2010	*3	*3	..	..	..	..	..
	2011	*3	*3	..	..	..	..	..
	2012	*3	*3	..	..	..	..	..
	2013	*3	*3	..	..	..	..	..
Northern Mariana Islands	2010	*400	*400	..	..	..	..	..
	2011	*400	*400	..	..	..	..	..
	2012	*400	*400	..	..	..	..	..
	2013	*400	*400	..	..	..	..	..
Palau	2010	*98	*80	*18	..	..	..	..
	2011	*96	*78	*18	..	..	..	..
	2012	*96	*78	*18	..	..	..	..
	2013	*96	*78	*18	..	..	..	..
Papua New Guinea	2010	3,425	2,439	987	..	..	..	..
	2011	3,525	2,539	987	..	..	..	..
	2012	*3,525	*2,539	*987	..	..	..	..
	2013	*4,176	*3,175	1,000	..	..	..	..
Samoa	2010	116	69	48	..	..	..	..
	2011	114	79	35	..	..	..	..
	2012	117	80	37	..	..	..	..
	2013	*118	*81	*37	..	..	..	..
Solomon Islands	2010	87	87	..	..	..	..	..
	2011	83	83	..	..	..	..	..
	2012	83	83	..	..	..	..	..
	2013	89	89	..	..	..	..	..
Tonga	2010	52	52	..	..	..	..	..
	2011	53	53	..	..	..	..	..
	2012	52	52	..	..	..	..	..
	2013	53	53	..	..	..	..	..
Tuvalu	2010	*5	*5	..	..	..	..	..
	2011	*5	*5	..	..	..	..	..
	2012	*5	*5	..	..	..	..	..
	2013	*5	*5	..	..	..	..	..
Vanuatu	2010	69	56	8	..	5	..	..
	2011	*68	*57	6	..	*5	0	..
	2012	67	57	7	..	3	0	..
	2013	*68	*58	*7	..	*3	0	..
Wallis and Futuna Is.	2010	20	20	..	..	..	..	..
	2011	20	20	..	..	..	..	..
	2012	19	19	..	..	..	..	..
	2013	19	19	..	..	..	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	23	23	..	..	..
..	..	..	..	23	23	..	..	..
..	..	..	..	24	24	..	..	..
..	..	..	..	*24	*24	..	..	..
*1	..	..	*1	2,131	1,811	265	..	54
*11	*10	..	*1	2,256	1,833	375	..	49
24	23	..	*1	2,264	1,804	399	..	61
207	206	..	1	2,299	1,788	455	..	56
1,391	1,264	12	115	43,485	11,319	24,704	..	7,462
1,288	1,159	12	117	43,177	10,059	25,102	..	8,016
1,369	1,261	13	95	42,886	11,785	22,888	..	8,213
1,405	1,293	13	99	41,851	10,441	23,031	..	8,379
..	..	..	..	*3	*3	..	..	..
..	..	..	..	*3	*3	..	..	..
..	..	..	..	*3	*3	..	..	..
..	..	..	..	*3	*3	..	..	..
..	..	..	..	*400	*400	..	..	..
..	..	..	..	*400	*400	..	..	..
..	..	..	..	*400	*400	..	..	..
..	..	..	..	*400	*400	..	..	..
*6	*6	..	..	*92	*74	*18	..	..
*6	*6	..	..	*90	*72	*18	..	..
*6	*6	..	..	*90	*72	*18	..	..
*6	*6	..	..	*90	*72	*18	..	..
2,465	2,105	360	..	960	334	627	..	..
2,565	2,205	360	..	960	334	627	..	..
*2,565	*2,205	*360	..	*960	*334	*627	..	..
*3,199	*2,838	361	..	977	337	640	..	..
*5	*5	..	..	111	64	48	..	..
*5	*5	..	..	109	74	35	..	..
*5	*5	..	..	112	75	37	..	..
*5	*5	..	..	*113	*76	*37	..	..
*8	*8	..	..	79	79	..	..	..
*8	*8	..	..	75	75	..	..	..
*8	*8	..	..	75	75	..	..	..
*8	*8	..	..	81	81	..	..	..
..	..	..	..	52	52	..	..	..
..	..	..	..	53	53	..	..	..
..	..	..	..	52	52	..	..	..
..	..	..	..	53	53	..	..	..
..	..	..	..	*5	*5	..	..	..
..	..	..	..	*5	*5	..	..	..
..	..	..	..	*5	*5	..	..	..
..	..	..	..	*5	*5	..	..	..
..	..	..	..	69	56	8	..	5
..	..	..	..	*68	*57	6	..	*5
..	..	..	..	67	57	7	..	3
..	..	..	..	*68	*58	*7	..	*3
..	..	..	..	20	20	..	..	..
..	..	..	..	20	20	..	..	..
..	..	..	..	19	19	..	..	..
..	..	..	..	19	19	..	..	..