

**Table 32**

**Production of electricity - by type**

Gigawatt-hours

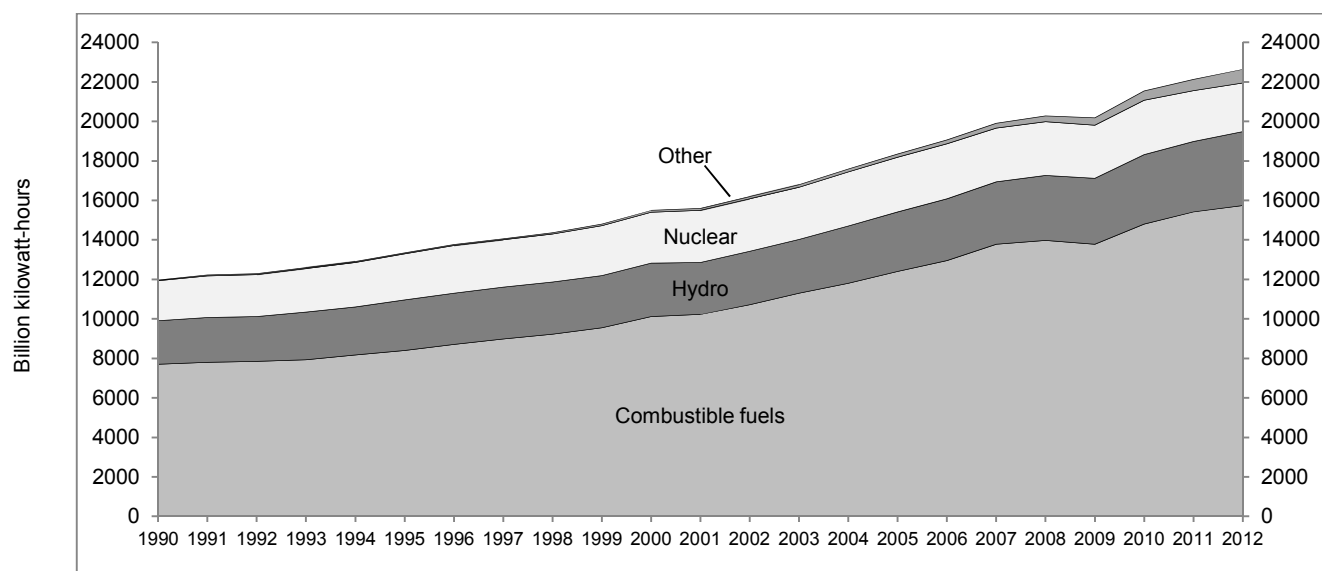
**Table Notes**

For this table, Other under total 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.

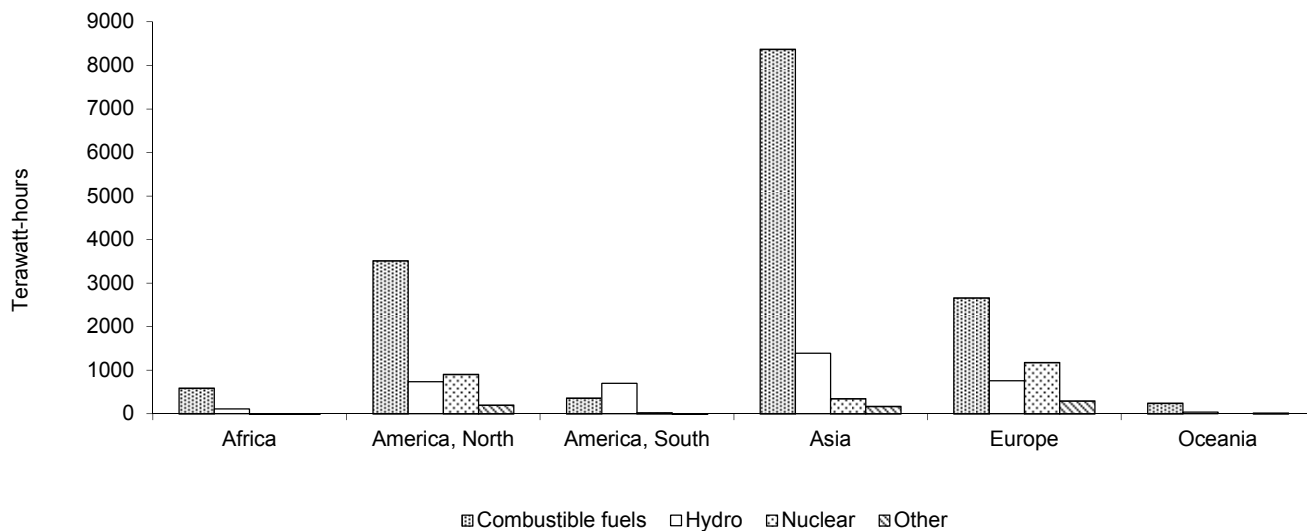
For India, thermal production includes also wind electricity.

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

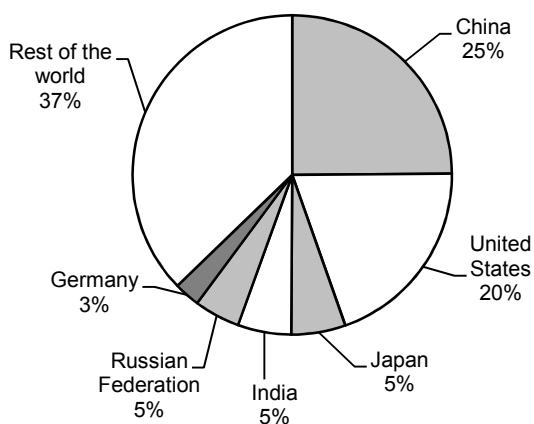
**Figure 75: World electricity generation by source, 1990-2012**



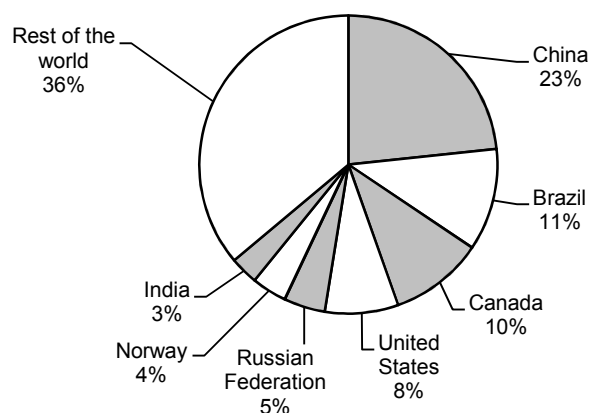
**Figure 76: World production of electricity by region, 2012**



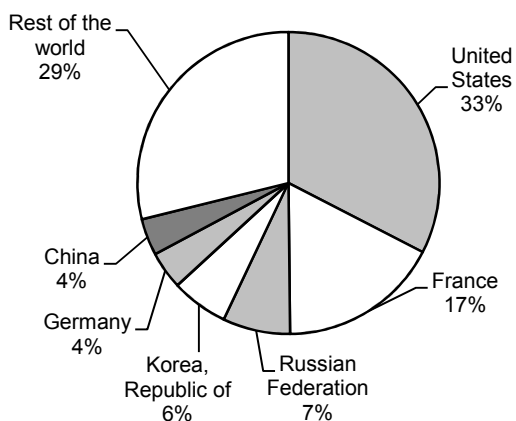
**Figure 77: Major countries producing electricity from combustible fuels, 2012**



**Figure 78: Major countries producing hydro electricity, 2012**



**Figure 79: Major countries producing nuclear electricity, 2012**



**Figure 80: Major countries producing electricity from other sources, 2012**

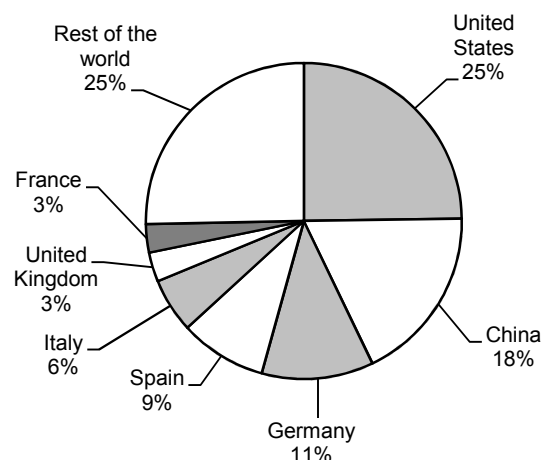


Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
World	2009	20,185,302	13,784,483	3,333,683	2,696,161	277,682	20,670	72,624
	2010	21,540,431	14,797,094	3,523,424	2,756,288	321,576	67,575	74,472
	2011	22,133,704	15,425,154	3,552,571	2,582,635	410,679	85,776	76,888
	2012	22,637,312	15,742,955	3,741,295	2,461,422	492,256	122,547	76,838
Africa	2009	633,940	515,088	102,957	12,806	1,727	45	1,317
	2010	678,098	548,151	113,674	12,099	2,421	294	1,460
	2011	701,500	569,169	114,208	13,502	2,475	641	1,506
	2012	721,761	589,746	114,404	13,075	2,415	506	1,615
Algeria	2009	38,501	38,195	306	..	..	..	..
	2010	45,734	45,560	174	..	..	..	..
	2011	51,224	50,722	502	..	..	..	..
	2012	57,397	56,775	622	..	..	..	..
Angola	2009	4,735	1,641	3,094	..	..	..	..
	2010	5,449	1,746	3,703	..	..	..	..
	2011	5,651	1,644	4,007	..	..	..	..
	2012	5,613	1,633	3,980	..	..	..	..
Benin	2009	128	128	..	..	..	..	..
	2010	150	150	..	..	..	..	..
	2011	155	155	..	..	..	..	..
	2012	163	163	..	..	..	..	..
Botswana	2009	621	621	..	..	..	..	..
	2010	532	532	..	..	..	..	..
	2011	437	437	..	..	..	..	..
	2012	250	250	..	..	..	..	..
Burkina Faso	2009	700	568	132	..	..	..	..
	2010	565	448	118	..	..	..	..
	2011	530	448	82	..	..	..	..
	2012	626	529	97	..	..	..	..
Burundi	2009	123	*2	121	..	..	..	..
	2010	144	*2	142	..	..	..	..
	2011	143	*2	141	..	..	..	..
	2012	144	*2	142	..	..	..	..
Cabo Verde	2009	296	291	..	..	5	0	..
	2010	347	343	..	..	2	2	..
	2011	362	337	..	..	16	9	..
	2012	371	302	..	..	61	7	..
Cameroon	2009	5,783	1,767	4,016	..	..	..	..
	2010	5,899	1,639	4,260	..	..	..	..
	2011	6,079	1,682	4,397	..	..	..	..
	2012	6,238	1,699	4,539	..	..	..	..
Central African Rep.	2009	160	*24	136	..	..	..	..
	2010	*160	*25	*135	..	..	..	..
	2011	*174	*27	*147	..	..	..	..
	2012	*177	*27	*150	..	..	..	..
Chad	2009	183	183	..	..	..	..	..
	2010	200	200	..	..	..	..	..
	2011	*218	*218	..	..	..	..	..
	2012	205	205	..	..	..	..	..
Comoros	2009	*43	*38	*5	..	..	..	..
	2010	*43	*38	*5	..	..	..	..
	2011	*43	*38	*5	..	..	..	..
	2012	*43	*38	*5	..	..	..	..
Congo	2009	539	209	330	..	..	..	..
	2010	785	355	430	..	..	..	..
	2011	1,293	502	791	..	..	..	..
	2012	1,342	521	821	..	..	..	..

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
1,384,558	1,281,077	85,755	17,726	18,800,745	12,503,406	3,247,928	2,696,161	353,250
1,551,224	1,439,832	89,499	21,893	19,989,206	13,357,262	3,433,926	2,756,288	441,731
1,669,281	1,540,535	98,040	30,707	20,464,422	13,884,620	3,454,531	2,582,635	542,636
1,721,424	1,583,832	97,770	39,821	20,915,889	14,159,123	3,643,524	2,461,422	651,819
26,053	25,278	775	0	607,887	489,810	102,181	12,806	3,089
28,308	27,045	1,263	0	649,790	521,106	112,410	12,099	4,175
32,984	31,712	1,272	0	668,516	537,456	112,936	13,502	4,621
35,912	34,686	1,212	14	685,849	555,060	113,192	13,075	4,522
294	294	..	..	38,207	37,901	306	..	..
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	..	..
324	324	..	..	4,411	1,317	3,094	..	..
345	345	..	..	5,104	1,401	3,703	..	..
325	325	..	..	5,326	1,319	4,007	..	..
323	323	..	..	5,290	1,310	3,980	..	..
16	16	..	..	112	112	..	..	..
27	27	..	..	123	123	..	..	..
28	28	..	..	127	127	..	..	..
29	29	..	..	134	134	..	..	..
..	..	..	..	621	621	..	..	..
..	..	..	..	532	532	..	..	..
..	..	..	..	437	437	..	..	..
..	..	..	..	250	250	..	..	..
..	..	..	..	700	568	132	..	..
..	..	..	..	565	448	118	..	..
88	88	..	..	442	360	82	..	..
147	147	..	..	479	382	97	..	..
..	..	..	..	123	*2	121	..	..
..	..	..	..	144	*2	142	..	..
..	..	..	..	143	*2	141	..	..
..	..	..	..	144	*2	142	..	..
*1	*1	..	..	295	290	..	..	5
*1	*1	..	..	346	342	..	..	4
0	0	..	..	362	337	..	..	25
0	0	..	..	371	302	..	..	69
1,332	1,332	..	..	4,451	435	4,016	..	..
1,269	1,269	..	..	4,630	370	4,260	..	..
1,330	1,330	..	..	4,749	352	4,397	..	..
1,333	1,333	..	..	4,905	366	4,539	..	..
..	..	..	..	160	*24	136	..	..
..	..	..	..	*160	*25	*135	..	..
..	..	..	..	*174	*27	*147	..	..
..	..	..	..	*177	*27	*150	..	..
..	..	..	..	183	183	..	..	..
..	..	..	..	200	200	..	..	..
..	..	..	..	*218	*218	..	..	..
..	..	..	..	205	205	..	..	..
..	..	..	..	*43	*38	*5	..	..
..	..	..	..	*43	*38	*5	..	..
..	..	..	..	*43	*38	*5	..	..
..	..	..	..	*43	*38	*5	..	..
..	..	..	..	539	209	330	..	..
..	..	..	..	785	355	430	..	..
..	..	..	..	1,293	502	791	..	..
..	..	..	..	1,342	521	821	..	..

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	2009	5,871	3,740	2,131	..	..	..	..
	2010	5,965	4,347	1,618	..	..	..	..
	2011	6,099	4,325	1,774	..	..	..	..
	2012	7,016	5,227	1,789	..	..	..	..
Dem. Rep. of the Congo	2009	7,835	35	7,800	..	..	..	..
	2010	7,888	35	7,853	..	..	..	..
	2011	7,882	35	7,847	..	..	..	..
	2012	7,966	35	7,931	..	..	..	..
Djibouti	2009	349	349	..	..	..	..	..
	2010	*379	*379	..	..	..	..	..
	2011	*387	*387	..	..	..	..	..
	2012	393	393	..	..	..	..	..
Egypt	2009	142,690	128,694	12,863	..	1,133	..	..
	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	..
Equatorial Guinea	2009	*100	*93	*7	..	..	..	..
	2010	*100	*93	*7	..	..	..	..
	2011	*97	*90	*7	..	..	..	..
	2012	*97	*90	*7	..	..	..	..
Eritrea	2009	295	293	..	..	..	2	..
	2010	311	309	..	..	..	2	..
	2011	337	335	..	..	..	2	..
	2012	359	357	..	..	..	2	..
Ethiopia	2009	3,992	444	3,524	..	..	..	24
	2010	4,980	31	4,931	..	..	..	18
	2011	6,307	37	6,262	..	..	..	8
	2012	6,700	40	6,615	..	29	..	16
Gabon	2009	1,865	921	944	..	..	..	..
	2010	1,979	1,072	907	..	..	..	..
	2011	2,070	1,230	840	..	..	..	..
	2012	2,197	1,289	908	..	..	..	..
Gambia	2009	242	242	..	..	..	..	..
	2010	*245	*245	..	..	..	..	..
	2011	*256	*256	..	..	..	..	..
	2012	*266	*266	..	..	..	..	..
Ghana	2009	8,964	2,087	6,877	..	..	..	..
	2010	10,167	3,171	6,996	..	..	..	..
	2011	11,366	3,805	7,561	..	..	..	..
	2012	12,204	4,133	8,071	..	..	..	..
Guinea	2009	996	*474	522	..	..	..	..
	2010	952	*465	487	..	..	..	..
	2011	*878	*464	414	..	..	..	..
	2012	*878	*464	*414	..	..	..	..
Guinea-Bissau	2009	*31	*31	..	..	..	..	..
	2010	*32	*32	..	..	..	..	..
	2011	*33	*33	..	..	..	..	..
	2012	*34	*34	..	..	..	..	..
Kenya	2009	6,450	2,997	2,160	..	0	..	1,293
	2010	6,867	2,201	3,224	..	0	..	1,442
	2011	7,849	2,885	3,451	..	15	..	1,498
	2012	8,290	2,376	4,299	..	15	1	1,599
Lesotho	2009	532	..	532	..	..	..	..
	2010	567	..	567	..	..	..	..
	2011	549	..	549	..	..	..	..
	2012	461	..	461	..	..	..	..

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
74	74	..	..	5,797	3,666	2,131	..	..
81	81	..	..	5,884	4,266	1,618	..	..
65	65	..	..	6,034	4,260	1,774	..	..
68	68	..	..	6,948	5,159	1,789	..	..
309	29	280	..	7,526	6	7,520	..	..
329	29	300	..	7,559	6	7,553	..	..
349	29	320	..	7,533	6	7,527	..	..
374	29	345	..	7,592	6	7,586	..	..
..	..	..	..	349	349	..	..	..
..	..	..	..	*379	*379	..	..	..
..	..	..	..	*387	*387	..	..	..
..	..	..	..	393	393	..	..	..
3,690	3,690	..	..	139,000	125,004	12,863	..	1,133
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
..	..	..	..	*100	*93	*7	..	..
..	..	..	..	*100	*93	*7	..	..
..	..	..	..	*97	*90	*7	..	..
..	..	..	..	*97	*90	*7	..	..
10	10	..	..	285	283	..	..	2
11	11	..	..	300	298	..	..	2
11	11	..	..	326	324	..	..	2
11	11	..	..	348	346	..	..	2
..	..	..	..	3,992	444	3,524	..	24
..	..	..	..	4,980	31	4,931	..	18
..	..	..	..	6,307	37	6,262	..	8
..	..	..	..	6,700	40	6,615	..	45
213	213	..	..	1,652	708	944	..	..
227	227	..	..	1,752	845	907	..	..
232	232	..	..	1,838	998	840	..	..
231	231	..	..	1,966	1,058	908	..	..
28	28	..	..	214	214	..	..	..
*28	*28	..	..	*217	*217	..	..	..
*30	*30	..	..	*226	*226	..	..	..
*31	*31	..	..	*236	*236	..	..	..
*6	*6	..	..	8,958	2,081	6,877	..	..
138	138	..	..	10,029	3,033	6,996	..	..
*166	*166	..	..	11,200	3,639	7,561	..	..
*180	*180	..	..	12,024	3,953	8,071	..	..
*343	*343	..	..	653	*131	522	..	..
*343	*343	..	..	609	*122	487	..	..
*342	*342	..	..	535	*122	414	..	..
*342	*342	..	..	*535	*122	*414	..	..
*7	*7	..	..	*24	*24	..	..	..
*7	*7	..	..	*25	*25	..	..	..
*7	*7	..	..	*26	*26	..	..	..
*8	*8	..	..	*26	*26	..	..	..
1,135	1,135	..	..	5,315	1,862	2,160	..	1,293
540	540	..	..	6,327	1,661	3,224	..	1,442
317	316	1	..	7,532	2,569	3,450	..	1,513
317	316	1	..	7,973	2,060	4,298	..	1,615
..	..	..	..	532	..	532	..	..
..	..	..	..	567	..	567	..	..
..	..	..	..	549	..	549	..	..
..	..	..	..	461	..	461	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Liberia	2009	*250	*250	..	..	..	..	..
	2010	*250	*250	..	..	..	..	..
	2011	*300	*300	..	..	..	..	..
	2012	*300	*300	..	..	..	..	..
Libya	2009	31,045	31,045	..	..	..	..	..
	2010	32,753	32,753	..	..	..	..	..
	2011	27,614	27,614	..	..	..	..	..
	2012	33,980	33,980	..	..	..	..	..
Madagascar	2009	1,274	533	741	..	..	0	..
	2010	1,360	649	711	..	..	0	..
	2011	1,438	747	690	..	..	0	..
	2012	1,520	765	755	..	..	0	..
Malawi	2009	1,944	*181	1,763	..	..	..	..
	2010	2,024	*181	1,843	..	..	..	..
	2011	1,979	*181	1,798	..	..	..	..
	2012	*1,666	*181	*1,485	..	..	..	..
Mali	2009	1,575	896	679	..	..	..	..
	2010	1,691	996	695	..	..	..	..
	2011	*1,702	*1,002	*700	..	..	..	..
	2012	*1,718	*1,018	*700	..	..	..	..
Mauritania	2009	658	658	..	..	..	..	..
	2010	727	727	..	..	..	..	..
	2011	744	744	..	..	..	..	..
	2012	824	824	..	..	..	..	..
Mauritius	2009	2,577	2,453	122	..	2	..	..
	2010	2,690	2,586	101	..	3	..	..
	2011	2,731	2,671	57	..	3	..	..
	2012	2,797	2,718	74	..	4	1	..
Morocco	2009	20,935	17,592	2,952	..	391	..	..
	2010	22,853	18,563	3,631	..	659	..	..
	2011	24,364	21,533	2,139	..	692	..	..
	2012	26,495	23,951	1,816	..	728	..	..
Mozambique	2009	16,963	13	16,950	..	..	..	..
	2010	16,666	19	16,647	..	..	..	..
	2011	16,830	20	16,810	..	..	..	..
	2012	15,166	21	15,145	..	..	..	..
Namibia	2009	1,742	313	1,429	..	..	..	..
	2010	1,488	224	1,264	..	..	..	..
	2011	1,607	9	1,598	..	..	..	..
	2012	1,538	67	1,471	..	..	..	..
Niger	2009	254	254	..	..	..	0	..
	2010	291	291	..	..	..	0	..
	2011	295	295	..	..	..	0	..
	2012	421	421	..	..	..	0	..
Nigeria	2009	19,777	15,248	4,529	..	..	..	..
	2010	26,121	19,747	6,374	..	..	..	..
	2011	27,034	21,151	5,883	..	..	..	..
	2012	28,706	23,047	5,659	..	..	..	..
Réunion	2009	2,618	2,052	531	..	15	21	..
	2010	2,700	2,065	542	..	17	76	..
	2011	2,750	2,195	401	..	12	142	..
	2012	2,812	2,114	488	..	19	191	..
Rwanda	2009	248	149	99	..	..	0	..
	2010	281	169	112	..	..	0	..
	2011	346	196	149	..	..	0	..
	2012	393	211	182	..	..	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	..	..	*50	*50	..	..	..
*200	*200	..	..	*100	*100	..	..	..
*200	*200	..	..	*100	*100	..	..	..
..	..	..	..	31,045	31,045	..	..	..
..	..	..	..	32,753	32,753	..	..	..
..	..	..	..	27,614	27,614	..	..	..
..	..	..	..	33,980	33,980	..	..	..
*170	*170	..	..	1,104	363	741	..	0
*170	*170	..	..	1,190	479	711	..	0
*170	*170	..	..	1,268	577	690	..	0
*170	*170	..	..	1,350	595	755	..	0
*180	*176	*4	..	1,764	*5	1,759	..	..
*180	*176	*4	..	1,844	*5	1,839	..	..
*181	*176	*5	..	1,798	*5	1,793	..	..
*181	*176	*5	..	*1,485	*5	*1,480	..	..
52	52	..	..	1,523	844	679	..	..
52	52	..	..	1,639	944	695	..	..
*52	*52	..	..	*1,650	*950	*700	..	..
*52	*52	..	..	*1,666	*966	*700	..	..
276	276	..	..	381	381	..	..	..
301	301	..	..	426	426	..	..	..
309	309	..	..	436	436	..	..	..
323	323	..	..	501	501	..	..	..
1,500	1,500	..	..	1,077	953	122	..	2
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
126	126	..	..	20,809	17,466	2,952	..	391
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
0	..	0	..	16,963	13	16,950	..	..
357	..	357	..	16,309	19	16,290	..	..
348	..	348	..	16,482	20	16,462	..	..
263	..	263	..	14,903	21	14,882	..	..
..	..	..	..	1,742	313	1,429	..	..
..	..	..	..	1,488	224	1,264	..	..
..	..	..	..	1,607	9	1,598	..	..
..	..	..	..	1,538	67	1,471	..	..
20	20	..	0	234	234	..	..	..
22	22	..	0	269	269	..	..	..
*22	*22	..	0	273	273	..	..	..
*22	*22	..	0	399	399	..	..	..
5,122	5,030	92	..	14,655	10,218	4,437	..	..
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	..	..
..	..	..	..	2,618	2,052	531	..	36
..	..	..	..	2,700	2,065	542	..	93
..	..	..	..	2,750	2,195	401	..	154
..	..	..	..	2,812	2,114	488	..	209
..	..	..	..	248	149	99	..	0
..	..	..	..	281	169	112	..	0
..	..	..	..	346	196	149	..	0
..	..	..	..	393	211	182	..	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	2009	*52	*45	*7	..	..	..	..
	2010	57	52	5	..	..	..	..
	2011	*60	*54	*6	..	..	..	..
	2012	*67	*60	*7	..	..	..	..
Senegal	2009	2,489	2,489	..	..	..	0	..
	2010	2,618	2,618	..	..	..	0	..
	2011	2,560	2,560	..	..	..	0	..
	2012	2,917	2,917	..	..	..	0	..
Seychelles	2009	276	276	..	..	..	..	..
	2010	301	301	..	..	..	..	..
	2011	324	324	..	..	..	..	..
	2012	336	336	..	..	..	..	..
Sierra Leone	2009	*132	44	*88	..	..	..	..
	2010	*171	22	*149	..	..	..	..
	2011	176	22	153	..	..	..	..
	2012	179	61	118	..	..	..	..
Somalia	2009	327	327	..	..	..	..	..
	2010	327	327	..	..	..	..	..
	2011	330	330	..	..	..	..	..
	2012	333	333	..	..	..	..	..
South Africa	2009	249,557	232,503	4,142	12,806	85	21	..
	2010	259,601	242,325	5,067	12,099	103	7	..
	2011	262,538	243,907	5,019	13,502	103	7	..
	2012	257,919	239,831	4,860	13,075	103	50	..
St. Helena and Depend.	2009	9	8	..	..	1	..	..
	2010	9	8	..	..	*1	..	..
	2011	10	9	..	..	*1	..	..
	2012	10	9	..	..	*1	..	..
Sudan	2009	6,491	3,263	3,228	..	..	..	..
	2010	7,499	1,297	6,202	..	..	..	..
	2011	8,455	1,988	6,467	..	..	..	..
	2012	9,436	2,817	6,619	..	..	..	..
Swaziland	2009	*518	*272	246	..	..	..	..
	2010	560	*272	288	..	..	..	..
	2011	654	*321	333	..	..	..	..
	2012	*622	*350	272	..	..	..	..
Togo	2009	152	42	110	..	..	..	..
	2010	179	86	93	..	..	..	..
	2011	128	22	106	..	..	..	..
	2012	111	22	89	..	..	..	..
Tunisia	2009	15,428	15,252	79	..	97	..	..
	2010	16,369	16,180	50	..	139	0	..
	2011	16,497	16,332	54	..	109	*2	..
	2012	18,059	17,750	110	..	196	*3	..
Uganda	2009	2,186	905	1,281	..	..	..	..
	2010	*2,456	*851	*1,605	..	..	..	..
	2011	*2,588	897	*1,691	..	..	..	..
	2012	*2,640	*915	*1,725	..	..	..	..
United Rep. of Tanzania	2009	4,736	2,096	2,640	..	..	..	..
	2010	5,187	2,566	2,621	..	..	..	..
	2011	5,244	3,438	1,806	..	..	..	..
	2012	5,795	4,125	1,657	..	..	13	..
Zambia	2009	10,414	31	10,383	..	..	..	..
	2010	11,308	35	11,273	..	..	..	..
	2011	11,482	46	11,436	..	..	..	..
	2012	11,856	42	11,814	..	..	..	..

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	*52	*45	*7	..	..
..	..	..	..	57	52	5	..	..
..	..	..	..	*60	*54	*6	..	..
..	..	..	..	*67	*60	*7	..	..
594	594	..	0	1,895	1,895	..	..	..
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	..	..	..
..	..	..	..	276	276	..	..	..
..	..	..	..	301	301	..	..	..
..	..	..	..	324	324	..	..	..
..	..	..	..	336	336	..	..	..
..	..	..	..	*132	44	*88	..	..
..	..	..	..	*171	22	*149	..	..
..	..	..	..	176	22	153	..	..
..	..	..	..	179	61	118	..	..
..	..	..	..	327	327	..	..	..
..	..	..	..	327	327	..	..	..
..	..	..	..	330	330	..	..	..
..	..	..	..	333	333	..	..	..
8,464	8,338	126	..	241,093	224,165	4,016	12,806	106
8,344	8,190	154	..	251,257	234,135	4,913	12,099	110
10,792	10,639	153	..	251,746	233,268	4,866	13,502	110
10,403	10,255	148	..	247,516	229,576	4,712	13,075	153
..	..	..	..	9	8	..	..	1
..	..	..	..	9	8	..	..	*1
..	..	..	..	10	9	..	..	*1
..	..	..	..	10	9	..	..	*1
..	..	..	..	6,491	3,263	3,228	..	..
..	..	..	..	7,499	1,297	6,202	..	..
..	..	..	..	8,455	1,988	6,467	..	..
..	..	..	..	9,436	2,817	6,619	..	..
*272	*272	..	..	246	1	246	..	..
*272	*272	..	..	288	0	288	..	..
*321	*321	..	..	333	0	333	..	..
*342	*342	..	..	280	8	272	..	..
10	10	..	..	142	32	110	..	..
10	10	..	..	169	76	93	..	..
11	11	..	..	117	11	106	..	..
11	11	..	..	100	11	89	..	..
872	872	..	..	14,556	14,380	79	..	97
1,023	1,023	..	..	15,346	15,157	50	..	139
694	694	..	..	15,803	15,638	54	..	111
631	631	..	..	17,428	17,119	110	..	199
*58	*30	28	..	2,127	875	1,252	..	..
*81	*29	*52	..	*2,375	*823	*1,553	..	..
*85	*30	*55	..	*2,503	867	*1,636	..	..
*87	*31	*56	..	*2,553	*884	*1,669	..	..
0	0	..	..	4,736	2,096	2,640	..	..
0	0	..	..	5,187	2,566	2,621	..	..
0	0	..	..	5,244	3,438	1,806	..	..
13	0	..	13	5,782	4,125	1,657	..	..
251	6	245	..	10,163	25	10,138	..	..
272	6	266	..	11,036	29	11,007	..	..
276	*6	270	..	11,206	40	11,166	..	..
285	*6	279	..	11,571	36	11,535	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Zimbabwe	2009	7,291	1,833	5,458	..	..	..	..
	2010	8,636	2,837	5,799	..	..	..	..
	2011	9,142	3,941	5,201	..	..	..	..
	2012	9,088	3,701	5,387	..	..	..	..
<b>America, North</b>	<b>2009</b>	<b>5,183,688</b>	<b>3,425,096</b>	<b>715,176</b>	<b>930,803</b>	<b>82,004</b>	<b>2,714</b>	<b>27,895</b>
	<b>2010</b>	<b>5,377,593</b>	<b>3,605,130</b>	<b>698,496</b>	<b>935,468</b>	<b>105,849</b>	<b>4,180</b>	<b>28,470</b>
	<b>2011</b>	<b>5,411,827</b>	<b>3,536,231</b>	<b>780,162</b>	<b>925,083</b>	<b>133,706</b>	<b>6,581</b>	<b>30,064</b>
	<b>2012</b>	<b>5,350,563</b>	<b>3,511,994</b>	<b>735,950</b>	<b>904,761</b>	<b>158,469</b>	<b>10,573</b>	<b>28,816</b>
Anguilla	2009	91	91	..	..	..	..	..
	2010	99	99	..	..	..	..	..
	2011	95	95	..	..	..	..	..
	2012	90	90	..	..	..	..	..
Antigua and Barbuda	2009	327	327	..	..	..	..	..
	2010	*326	*326	..	..	..	..	..
	2011	*325	*325	..	..	..	..	..
	2012	*327	*327	..	..	..	..	..
Aruba	2009	924	924	..	..	..	..	..
	2010	940	834	..	..	107	..	..
	2011	931	818	..	..	113	..	..
	2012	915	778	..	..	136	..	..
Bahamas	2009	1,769	1,769	..	..	..	..	..
	2010	1,823	1,823	..	..	..	..	..
	2011	1,766	1,766	..	..	..	..	..
	2012	2,037	2,037	..	..	..	..	..
Barbados	2009	1,068	1,068	..	..	..	..	..
	2010	1,028	1,028	..	..	..	..	..
	2011	1,049	1,049	..	..	..	..	..
	2012	1,129	1,129	..	..	..	..	..
Belize	2009	257	69	188	..	..	..	..
	2010	415	152	263	..	..	..	..
	2011	384	140	245	..	..	..	..
	2012	*399	*145	*254	..	..	..	..
Bermuda	2009	*746	*746	..	..	..	..	..
	2010	742	742	..	..	..	..	..
	2011	*726	*726	..	..	..	..	..
	2012	*692	*692	..	..	..	..	..
British Virgin Islands	2009	*125	*125	..	..	..	..	..
	2010	*128	*128	..	..	..	..	..
	2011	131	131	..	..	..	..	..
	2012	*130	*130	..	..	..	..	..
Canada	2009	612,203	146,575	368,762	90,092	6,641	103	30
	2010	602,824	151,836	351,461	90,658	8,724	117	28
	2011	639,347	158,138	375,797	93,589	10,187	260	1,376
	2012	634,449	147,296	380,622	94,862	11,310	332	27
Cayman Islands	2009	626	626	..	..	..	..	..
	2010	624	624	..	..	..	..	..
	2011	626	626	..	..	..	..	..
	2012	607	607	..	..	..	..	..
Costa Rica	2009	9,311	575	7,224	..	326	0	1,186
	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
Cuba	2009	17,727	17,576	151	..	..	..	..
	2010	17,387	17,290	97	..	..	..	..
	2011	17,759	17,660	99	..	..	..	..
	2012	18,432	18,321	111	..	..	..	..

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
104	104	..	..	7,187	1,729	5,458	..	..
101	101	..	..	8,535	2,736	5,799	..	..
102	102	..	..	9,040	3,839	5,201	..	..
98	98	..	..	8,990	3,603	5,387	..	..
<b>237,417</b>	<b>199,073</b>	<b>35,301</b>	<b>3,043</b>	<b>4,946,271</b>	<b>3,226,023</b>	<b>679,875</b>	<b>930,803</b>	<b>109,570</b>
<b>252,601</b>	<b>216,580</b>	<b>30,784</b>	<b>5,237</b>	<b>5,124,992</b>	<b>3,388,550</b>	<b>667,712</b>	<b>935,468</b>	<b>133,263</b>
<b>259,570</b>	<b>218,165</b>	<b>34,152</b>	<b>7,253</b>	<b>5,152,257</b>	<b>3,318,066</b>	<b>746,010</b>	<b>925,083</b>	<b>163,098</b>
<b>274,101</b>	<b>228,136</b>	<b>36,353</b>	<b>9,612</b>	<b>5,076,461</b>	<b>3,283,858</b>	<b>699,597</b>	<b>904,761</b>	<b>188,246</b>
..	..	..	..	91	91	..	..	..
..	..	..	..	99	99	..	..	..
..	..	..	..	95	95	..	..	..
..	..	..	..	90	90	..	..	..
*1	*1	..	..	326	326	..	..	..
*1	*1	..	..	*325	*325	..	..	..
*1	*1	..	..	*324	*324	..	..	..
*1	*1	..	..	*326	*326	..	..	..
..	..	..	..	924	924	..	..	..
..	..	..	..	940	834	..	..	107
..	..	..	..	931	818	..	..	113
..	..	..	..	915	778	..	..	136
*72	*72	..	..	1,697	1,697	..	..	..
*74	*74	..	..	1,749	1,749	..	..	..
*74	*74	..	..	1,692	1,692	..	..	..
*74	*74	..	..	1,963	1,963	..	..	..
51	51	..	..	1,017	1,017	..	..	..
49	49	..	..	978	978	..	..	..
*5	*5	..	..	1,044	1,044	..	..	..
*4	*4	..	..	1,125	1,125	..	..	..
1	1	..	..	255	68	188	..	..
81	81	..	..	334	71	263	..	..
71	71	..	..	314	*69	245	..	..
*75	*75	..	..	*324	*70	*254	..	..
*13	*13	..	..	*733	*733	..	..	..
12	12	..	..	730	730	..	..	..
12	12	..	..	*714	*714	..	..	..
*12	*12	..	..	*680	*680	..	..	..
..	..	..	..	*125	*125	..	..	..
..	..	..	..	*128	*128	..	..	..
..	..	..	..	131	131	..	..	..
..	..	..	..	*130	*130	..	..	..
52,345	20,597	31,746	2	559,858	125,978	337,016	90,092	6,772
49,918	22,709	27,207	2	552,906	129,127	324,254	90,658	8,867
55,351	24,835	30,515	1	583,996	133,303	345,282	93,589	11,822
57,113	25,075	32,034	4	577,336	122,221	348,588	94,862	11,665
..	..	..	..	626	626	..	..	..
..	..	..	..	624	624	..	..	..
..	..	..	..	626	626	..	..	..
..	..	..	..	607	607	..	..	..
1,870	123	1,288	459	7,441	451	5,936	..	1,054
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
868	868	..	..	16,859	16,708	151	..	..
803	803	..	..	16,584	16,487	97	..	..
815	815	..	..	16,944	16,845	99	..	..
836	836	..	..	17,596	17,485	111	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Dominica	2009	93	70	23	..	..	..	..
	2010	99	76	23	..	..	..	..
	2011	100	65	36	..	..	..	..
	2012	102	75	27	..	..	..	..
Dominican Republic	2009	14,381	12,928	1,453	..	..	..	..
	2010	15,332	13,916	1,416	..	..	..	..
	2011	15,894	14,367	1,513	..	14	..	..
	2012	16,893	15,015	1,783	..	96	..	..
El Salvador	2009	5,793	2,764	1,505	..	..	..	1,524
	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
Greenland	2009	406	152	254	..	..	..	..
	2010	401	120	281	..	..	..	..
	2011	*412	*96	*316	..	..	..	..
	2012	*405	*93	*312	..	..	..	..
Grenada	2009	203	203	..	..	..	..	..
	2010	209	209	..	..	..	..	..
	2011	204	204	..	..	..	..	..
	2012	200	200	..	..	..	..	..
Guadeloupe	2009	*1,709	*1,554	*14	..	*51	*40	*50
	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
Guatemala	2009	9,047	5,718	2,942	..	..	..	387
	2010	8,893	4,773	3,849	..	..	..	271
	2011	9,181	4,759	4,176	..	..	..	246
	2012	9,412	4,708	4,458	..	..	..	246
Haiti	2009	721	514	207	..	..	..	..
	2010	587	410	177	..	..	..	..
	2011	943	823	120	..	..	..	..
	2012	1,150	990	160	..	..	..	..
Honduras	2009	6,625	3,828	2,797	..	..	..	..
	2010	6,777	3,697	3,080	..	..	..	..
	2011	7,183	4,251	2,815	..	117	..	..
	2012	7,593	4,468	2,787	..	338	..	..
Jamaica	2009	4,208	3,999	158	..	51	..	..
	2010	4,217	4,012	152	..	53	..	..
	2011	4,171	3,926	152	..	92	..	..
	2012	4,156	3,898	151	..	108	..	..
Martinique	2009	*1,732	*1,685	0	..	*2	*45	..
	2010	*1,808	*1,764	0	..	*2	*43	..
	2011	*1,764	*1,720	0	..	*2	*43	..
	2012	*1,780	*1,736	0	..	*2	*43	..
Mexico	2009	261,045	216,483	26,713	10,501	596	12	6,740
	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
Montserrat	2009	*23	*23	..	..	..	..	..
	2010	*23	*23	..	..	..	..	..
	2011	*23	*23	..	..	..	..	..
	2012	*23	*23	..	..	..	..	..
Netherlands Antilles	2009	1,298	1,298	..	..	..	..	..
	2010	1,323	1,323	..	..	..	..	..
	2011	1,325	1,325	..	..	..	..	..
	2012	1,333	1,333	..	..	..	..	..

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	93	70	23	..	..
..	..	..	..	99	76	23	..	..
..	..	..	..	100	65	36	..	..
..	..	..	..	102	75	27	..	..
2,741	2,741	..	..	11,640	10,187	1,453	..	..
2,869	2,869	..	..	12,463	11,046	1,416	..	..
2,919	2,919	..	..	12,975	11,448	1,513	..	14
3,044	3,044	..	..	13,850	11,971	1,783	..	96
640	640	..	..	5,153	2,124	1,505	..	1,524
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
66	66	..	..	340	86	254	..	..
65	65	..	..	336	55	281	..	..
*56	*56	..	..	*356	*40	*316	..	..
*55	*55	..	..	*350	*38	*312	..	..
..	..	..	..	203	203	..	..	..
..	..	..	..	209	209	..	..	..
..	..	..	..	204	204	..	..	..
..	..	..	..	200	200	..	..	..
..	..	..	..	*1,709	*1,554	*14	..	*141
..	..	..	..	*1,809	*1,634	*14	..	*161
..	..	..	..	*1,767	*1,555	*14	..	*198
..	..	..	..	*1,805	*1,589	*14	..	*202
788	766	22	..	8,259	4,952	2,920	..	387
628	606	22	..	8,265	4,167	3,827	..	271
601	579	22	..	8,580	4,180	4,154	..	246
712	689	23	..	8,700	4,019	4,435	..	246
..	..	..	..	721	514	207	..	..
..	..	..	..	587	410	177	..	..
31	31	..	..	912	792	120	..	..
48	48	..	..	1,102	942	160	..	..
12	12	..	..	6,613	3,816	2,797	..	..
12	12	..	..	6,765	3,685	3,080	..	..
13	13	..	..	7,170	4,238	2,815	..	117
14	14	..	..	7,579	4,454	2,787	..	338
1,328	1,277	..	51	2,880	2,722	158	..	..
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	..	..
*30	*30	..	..	*1,702	*1,655	0	..	*47
*30	*30	..	..	*1,778	*1,734	0	..	*45
*30	*30	..	..	*1,734	*1,690	0	..	*45
*30	*30	..	..	*1,750	*1,706	0	..	*45
25,939	25,312	268	359	235,106	191,171	26,445	10,501	6,989
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
..	..	..	..	*23	*23	..	..	..
..	..	..	..	*23	*23	..	..	..
..	..	..	..	*23	*23	..	..	..
..	..	..	..	*23	*23	..	..	..
688	688	..	..	610	610	..	..	..
701	701	..	..	622	622	..	..	..
702	702	..	..	623	623	..	..	..
706	706	..	..	627	627	..	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Nicaragua	2009	3,453	2,749	297	..	110	..	297
	2010	3,659	2,690	504	..	163	..	302
	2011	3,824	2,896	444	..	211	..	273
	2012	4,031	2,759	419	..	330	..	523
Panama	2009	6,909	3,012	3,897	..	..	..	..
	2010	7,419	3,225	4,194	..	..	..	..
	2011	7,857	3,759	4,098	..	..	..	..
	2012	8,606	3,218	5,388	..	..	..	..
Puerto Rico	2009	22,949	22,793	156	..	..	..	..
	2010	23,247	23,087	160	..	..	..	..
	2011	22,257	22,035	223	..	..	..	..
	2012	22,306	22,083	223	..	..	..	..
St. Kitts-Nevis	2009	*184	*184	..	..	..	..	..
	2010	190	190	..	..	..	..	..
	2011	*196	*196	..	..	..	..	..
	2012	204	204	..	..	..	..	..
St. Lucia	2009	363	363	..	..	..	..	..
	2010	381	381	..	..	..	..	..
	2011	385	385	..	..	..	..	..
	2012	385	385	..	..	..	..	..
St. Pierre-Miquelon	2009	45	44	..	..	1	..	..
	2010	45	44	..	..	1	..	..
	2011	45	44	..	..	1	..	..
	2012	43	43	..	..	1	..	..
St. Vincent-Grenadines	2009	*140	*116	*24	..	..	..	..
	2010	*142	*117	*24	..	..	..	..
	2011	*142	*118	*24	..	..	..	..
	2012	*144	*120	*24	..	..	..	..
Trinidad and Tobago	2009	7,843	7,843	..	..	..	..	..
	2010	8,485	8,485	..	..	..	..	..
	2011	8,772	8,772	..	..	..	..	..
	2012	9,132	9,132	..	..	..	..	..
Turks and Caicos Islands	2009	*208	*208	..	..	..	..	..
	2010	*214	*214	..	..	..	..	..
	2011	*214	*214	..	..	..	..	..
	2012	*227	*227	..	..	..	..	..
United States	2009	4,188,214	2,965,173	298,410	830,210	74,226	2,514	17,681
	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
United States Virgin Is.	2009	*921	*921	..	..	..	..	..
	2010	958	958	..	..	..	..	..
	2011	951	951	..	..	..	..	..
	2012	872	872	..	..	..	..	..
<b>America, South</b>	<b>2009</b>	<b>950,651</b>	<b>257,958</b>	<b>670,029</b>	<b>21,118</b>	<b>1,447</b>	<b>2</b>	<b>97</b>
	<b>2010</b>	<b>1,010,920</b>	<b>315,431</b>	<b>671,031</b>	<b>21,694</b>	<b>2,648</b>	<b>3</b>	<b>112</b>
	<b>2011</b>	<b>1,047,762</b>	<b>307,362</b>	<b>715,136</b>	<b>22,030</b>	<b>3,229</b>	<b>5</b>	<b>0</b>
	<b>2012</b>	<b>1,089,810</b>	<b>362,764</b>	<b>698,524</b>	<b>22,433</b>	<b>6,007</b>	<b>82</b>	<b>0</b>
Argentina	2009	122,348	79,856	34,295	8,161	36	0	..
	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	..
Bolivia (Plur. State of)	2009	6,121	3,823	2,296	..	..	2	..
	2010	6,947	4,762	2,182	..	..	3	..
	2011	7,219	4,869	2,347	..	..	3	..
	2012	7,661	5,306	2,352	..	..	3	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
405	405	..	..	3,048	2,344	297	..	407
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
17	17	..	..	6,892	2,995	3,897	..	..
22	22	..	..	7,397	3,203	4,194	..	..
23	23	..	..	7,834	3,736	4,098	..	..
26	26	..	..	8,580	3,192	5,388	..	..
*250	*250	..	..	22,699	22,543	156	..	..
*250	*250	..	..	22,997	22,837	160	..	..
*250	*250	..	..	22,007	21,785	223	..	..
*250	*250	..	..	22,056	21,833	223	..	..
*7	*7	..	..	*177	*177	..	..	..
*6	*6	..	..	184	184	..	..	..
*6	*6	..	..	*190	*190	..	..	..
*5	*5	..	..	199	199	..	..	..
..	..	..	..	363	363	..	..	..
..	..	..	..	381	381	..	..	..
..	..	..	..	385	385	..	..	..
..	..	..	..	385	385	..	..	..
..	..	..	..	45	44	..	..	1
..	..	..	..	45	44	..	..	1
..	..	..	..	45	44	..	..	1
..	..	..	..	43	43	..	..	1
..	..	..	..	*140	*116	*24	..	..
..	..	..	..	*142	*117	*24	..	..
..	..	..	..	*142	*118	*24	..	..
..	..	..	..	*144	*120	*24	..	..
35	35	..	..	7,808	7,808	..	..	..
70	70	..	..	8,415	8,415	..	..	..
72	72	..	..	8,700	8,700	..	..	..
75	75	..	..	9,057	9,057	..	..	..
..	..	..	..	*208	*208	..	..	..
..	..	..	..	*214	*214	..	..	..
..	..	..	..	*214	*214	..	..	..
..	..	..	..	*227	*227	..	..	..
149,201	145,052	1,977	2,172	4,039,013	2,820,121	296,433	830,210	92,249
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
*48	*48	..	..	*873	*873	..	..	..
*48	*48	..	..	909	909	..	..	..
*40	*40	..	..	911	911	..	..	..
0	0	..	..	872	872	..	..	..
<b>89,355</b>	<b>67,173</b>	<b>22,051</b>	<b>131</b>	<b>861,296</b>	<b>190,784</b>	<b>647,978</b>	<b>21,118</b>	<b>1,415</b>
<b>103,589</b>	<b>80,265</b>	<b>23,209</b>	<b>115</b>	<b>907,330</b>	<b>235,166</b>	<b>647,822</b>	<b>21,694</b>	<b>2,648</b>
<b>110,811</b>	<b>85,212</b>	<b>25,589</b>	<b>10</b>	<b>936,952</b>	<b>222,150</b>	<b>689,547</b>	<b>22,030</b>	<b>3,224</b>
<b>112,333</b>	<b>89,018</b>	<b>23,289</b>	<b>26</b>	<b>977,477</b>	<b>273,747</b>	<b>675,235</b>	<b>22,433</b>	<b>6,062</b>
14,456	14,365	91	..	107,892	65,491	34,204	8,161	36
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
92	90	..	2	6,029	3,733	2,296	..	..
106	103	..	3	6,841	4,659	2,182	..	..
109	106	..	3	7,110	4,763	2,347	..	..
114	111	..	3	7,547	5,195	2,352	..	..



Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Brazil	2009	466,158	60,975	390,988	12,957	1,238	..	..
	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	..	..
Chile	2009	60,722	35,250	25,296	..	79	..	97
	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
Colombia	2009	57,265	16,157	41,050	..	58	..	..
	2010	60,111	19,448	40,624	..	39	..	..
	2011	59,653	10,068	49,544	..	41	..	..
	2012	60,805	12,639	48,111	..	55	..	..
Ecuador	2009	18,588	9,363	9,222	..	3	..	..
	2010	19,551	10,912	8,636	..	3	..	..
	2011	20,562	9,426	11,133	..	3	..	..
	2012	22,847	10,607	12,238	..	2	..	..
Falkland Is. (Malvinas)	2009	*18	*17	..	..	0	..	..
	2010	*18	*12	..	..	*6	..	..
	2011	*18	*12	..	..	*6	..	..
	2012	*18	*12	..	..	*6	..	..
French Guiana	2009	*794	*445	*349	..	..	0	..
	2010	*823	*379	*444	..	..	0	..
	2011	*836	*377	*459	..	..	0	..
	2012	853	273	529	..	..	51	..
Guyana	2009	723	723	..	..	..	..	..
	2010	868	868	..	..	..	..	..
	2011	910	910	..	..	..	..	..
	2012	942	942	..	..	..	..	..
Paraguay	2009	54,950	1	54,949	..	..	..	..
	2010	54,066	1	54,065	..	..	..	..
	2011	57,625	1	57,624	..	..	..	..
	2012	60,235	1	60,234	..	..	..	..
Peru	2009	32,929	13,437	19,491	..	1	0	..
	2010	35,890	15,847	20,042	..	1	0	..
	2011	39,223	17,635	21,587	..	1	0	..
	2012	39,909	18,534	21,354	..	1	20	..
Suriname	2009	1,618	747	871	..	..	..	..
	2010	*1,724	*796	*927	..	..	..	..
	2011	*1,951	*901	*1,050	..	..	..	..
	2012	*1,972	*911	*1,061	..	..	..	..
Uruguay	2009	8,838	3,546	5,260	..	32	..	..
	2010	10,727	2,255	8,407	..	65	..	..
	2011	10,342	3,754	6,479	..	110	..	..
	2012	10,596	5,060	5,421	..	115	..	..
Venezuela(Bolivar. Rep.)	2009	119,580	33,618	85,962	..	..	..	..
	2010	118,370	41,590	76,780	..	..	..	..
	2011	122,059	38,389	83,670	..	..	..	..
	2012	126,516	44,508	82,008	..	..	..	..
<b>Asia</b>	<b>2009</b>	<b>8,414,670</b>	<b>6,720,149</b>	<b>1,051,323</b>	<b>563,250</b>	<b>52,988</b>	<b>3,572</b>	<b>23,388</b>
	<b>2010</b>	<b>9,260,635</b>	<b>7,349,906</b>	<b>1,210,110</b>	<b>584,511</b>	<b>53,673</b>	<b>39,458</b>	<b>22,976</b>
	<b>2011</b>	<b>9,814,022</b>	<b>8,060,721</b>	<b>1,191,890</b>	<b>425,377</b>	<b>82,578</b>	<b>30,237</b>	<b>23,218</b>
	<b>2012</b>	<b>10,278,844</b>	<b>8,370,007</b>	<b>1,391,674</b>	<b>345,675</b>	<b>109,576</b>	<b>38,229</b>	<b>23,683</b>
Afghanistan	2009	889	114	775	..	..	..	..
	2010	892	125	767	..	..	..	..
	2011	1,005	176	829	..	..	..	..
	2012	1,022	144	878	..	..	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
57,008	37,690	19,318	..	409,150	23,285	371,670	12,957	1,238
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
5,536	4,942	497	97	55,186	30,308	24,799	..	79
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
1,864	1,651	213	..	55,401	14,506	40,837	..	58
911	688	223	..	59,200	18,760	40,401	..	39
*1,350	*684	*666	..	58,303	9,384	48,878	..	41
*1,072	*543	*529	..	59,733	12,096	47,582	..	55
4,297	3,720	577	..	14,291	5,643	8,645	..	3
3,805	3,348	457	..	15,746	7,564	8,179	..	3
4,476	3,971	505	..	16,086	5,455	10,628	..	3
4,795	4,284	511	..	18,052	6,323	11,727	..	2
*2	*2	..	..	*16	*15	..	..	0
*2	*2	..	..	*16	*10	..	..	*6
*2	*2	..	..	*16	*10	..	..	*6
*2	*2	..	..	*16	*10	..	..	*6
..	..	..	..	*794	*445	*349	..	0
..	..	..	..	*823	*379	*444	..	0
..	..	..	..	*836	*377	*459	..	0
..	..	..	..	853	273	529	..	51
137	137	..	..	586	586	..	..	..
299	299	..	..	568	568	..	..	..
306	306	..	..	605	605	..	..	..
285	285	..	..	658	658	..	..	..
..	..	..	..	54,950	1	54,949	..	..
..	..	..	..	54,066	1	54,065	..	..
..	..	..	..	57,625	1	57,624	..	..
..	..	..	..	60,235	1	60,234	..	..
2,022	1,538	484	..	30,907	11,899	19,007	..	1
2,361	1,877	484	..	33,529	13,970	19,558	..	1
2,945	2,403	542	..	36,278	15,232	21,045	..	1
2,558	2,070	488	..	37,351	16,464	20,866	..	21
1,471	600	871	..	147	147	..	..	..
*1,567	*640	*927	..	*156	*156	..	..	..
*1,774	*725	*1,050	..	*177	*177	..	..	..
*1,794	*733	*1,061	..	*179	*179	..	..	..
795	763	..	32	8,043	2,783	5,260	..	..
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
1,675	1,675	..	..	117,905	31,943	85,962	..	..
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	..	..
<b>692,515</b>	<b>673,810</b>	<b>11,504</b>	<b>7,201</b>	<b>7,722,156</b>	<b>6,046,339</b>	<b>1,039,819</b>	<b>563,250</b>	<b>72,747</b>
<b>795,363</b>	<b>768,636</b>	<b>18,300</b>	<b>8,427</b>	<b>8,465,272</b>	<b>6,581,270</b>	<b>1,191,810</b>	<b>584,511</b>	<b>107,681</b>
<b>890,973</b>	<b>859,066</b>	<b>21,276</b>	<b>10,631</b>	<b>8,923,049</b>	<b>7,201,655</b>	<b>1,170,615</b>	<b>425,377</b>	<b>125,402</b>
<b>923,722</b>	<b>890,272</b>	<b>20,858</b>	<b>12,592</b>	<b>9,355,122</b>	<b>7,479,735</b>	<b>1,370,816</b>	<b>345,675</b>	<b>158,896</b>
270	5	265	..	619	109	510	..	..
270	5	265	..	622	120	502	..	..
286	5	281	..	719	171	548	..	..
301	5	296	..	721	139	582	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Armenia	2009	5,672	1,154	2,020	2,494	..	..	4
	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
Azerbaijan	2009	18,868	16,558	2,308	..	2	..	..
	2010	18,710	15,263	3,446	..	1	..	..
	2011	20,294	17,618	2,676	..	0	..	..
	2012	22,988	21,167	1,821	..	0	..	..
Bahrain	2009	22,555	22,555	..	..	..	..	..
	2010	23,441	23,441	..	..	..	..	..
	2011	23,767	23,767	..	..	..	..	..
	2012	24,770	24,770	..	..	..	..	..
Bangladesh	2009	37,225	36,808	417	..	..	..	..
	2010	41,813	41,084	729	..	..	..	..
	2011	44,163	43,291	872	..	..	..	..
	2012	49,039	48,262	777	..	..	..	..
Bhutan	2009	6,998	0	6,998	..	..	..	..
	2010	7,329	1	7,328	..	..	..	..
	2011	7,068	0	7,067	..	..	..	..
	2012	6,827	0	6,827	..	..	..	..
Brunei Darussalam	2009	3,612	3,612	..	..	..	..	..
	2010	3,792	3,792	..	..	..	..	..
	2011	3,725	3,723	..	..	..	2	..
	2012	3,930	3,928	..	..	..	2	..
Cambodia	2009	1,256	1,217	37	..	..	2	..
	2010	994	965	26	..	..	3	..
	2011	1,053	1,005	45	..	..	3	..
	2012	1,434	914	517	..	..	3	..
China	2009	3,714,650	2,982,780	615,640	70,134	46,096	..	..
	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	..
China, Hong Kong SAR	2009	38,728	38,727	..	..	*1	..	..
	2010	38,292	38,291	..	..	*1	..	..
	2011	39,026	39,024	..	..	*2	..	..
	2012	38,752	38,750	..	..	*2	..	..
China, Macao SAR	2009	1,466	1,466	..	..	..	..	..
	2010	1,077	1,077	..	..	..	..	..
	2011	837	837	..	..	..	..	..
	2012	489	489	..	..	..	..	..
Cyprus	2009	5,215	5,211	..	..	0	4	..
	2010	5,322	5,284	..	..	31	7	..
	2011	4,929	4,803	..	..	114	12	..
	2012	4,717	4,510	..	..	185	22	..
Georgia	2009	8,165	1,010	7,155	..	..	..	..
	2010	9,992	644	9,348	..	..	..	..
	2011	10,747	2,589	8,158	..	..	..	..
	2012	10,137	2,576	7,561	..	..	..	..
India	2009	899,389	773,844	106,909	18,636	..	..	..
	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	..	..	..
Indonesia	2009	157,516	136,833	11,388	..	0	..	9,295
	2010	186,594	159,560	17,676	..	0	1	9,357
	2011	182,384	160,593	12,419	..	0	1	9,371
	2012	*197,328	*175,109	12,799	..	0	3	*9,417

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	5,672	1,154	2,020	2,494	4
..	..	..	..	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
269	269	..	..	18,599	16,289	2,308	..	2
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
10,499	10,499	..	..	12,056	12,056	..	..	..
10,211	10,211	..	..	13,230	13,230	..	..	..
10,626	10,626	..	..	13,141	13,141	..	..	..
10,510	10,510	..	..	14,260	14,260	..	..	..
10,049	10,049	..	..	27,176	26,759	417	..	..
12,710	12,710	..	..	29,103	28,374	729	..	..
12,994	12,994	..	..	31,169	30,297	872	..	..
13,746	13,746	..	..	35,293	34,516	777	..	..
..	..	..	..	6,998	0	6,998	..	..
..	..	..	..	7,329	1	7,328	..	..
..	..	..	..	7,068	0	7,067	..	..
..	..	..	..	6,827	0	6,827	..	..
343	343	..	..	3,269	3,269	..	..	..
352	352	..	..	3,440	3,440	..	..	..
330	330	..	..	3,395	3,393	..	..	2
406	406	..	..	3,524	3,522	..	..	2
..	..	..	..	1,256	1,217	37	..	2
..	..	..	..	994	965	26	..	3
..	..	..	..	1,053	1,005	45	..	3
..	..	..	..	1,434	914	517	..	3
241,903	241,903	..	..	3,472,747	2,740,877	615,640	70,134	46,096
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
..	..	..	..	38,728	38,727	..	..	*1
..	..	..	..	38,292	38,291	..	..	*1
..	..	..	..	39,026	39,024	..	..	*2
..	..	..	..	38,752	38,750	..	..	*2
116	116	..	..	1,350	1,350	..	..	..
133	133	..	..	944	944	..	..	..
107	107	..	..	730	730	..	..	..
113	113	..	..	376	376	..	..	..
77	76	..	1	5,138	5,135	..	..	3
76	74	..	2	5,246	5,210	..	..	36
68	66	..	2	4,861	4,737	..	..	124
60	58	..	2	4,657	4,452	..	..	205
..	..	..	..	8,165	1,010	7,155	..	..
..	..	..	..	9,992	644	9,348	..	..
..	..	..	..	10,747	2,589	8,158	..	..
..	..	..	..	10,137	2,576	7,561	..	..
103,108	102,879	229	..	796,281	670,965	106,680	18,636	..
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	..
765	714	51	..	156,751	136,119	11,337	..	9,295
16,808	16,808	0	..	169,786	142,752	17,676	..	9,358
33,762	31,659	2,103	..	148,622	128,934	10,316	..	9,372
*47,573	*45,299	2,274	..	*149,755	*129,810	10,525	..	*9,420

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Iran (Islamic Rep. of)	2009	221,370	213,912	7,233	..	225	0	..
	2010	232,955	223,266	9,526	..	163	0	..
	2011	240,030	227,428	12,058	327	217	0	..
	2012	254,253	239,752	12,447	1,847	207	0	..
Iraq	2009	46,065	42,837	3,228	..	..	..	..
	2010	48,909	44,142	4,767	..	..	..	..
	2011	54,240	50,100	4,140	..	..	..	..
	2012	61,704	56,280	5,424	..	..	..	..
Israel	2009	55,008	54,683	24	..	9	24	268
	2010	58,591	58,450	31	..	8	70	32
	2011	59,679	59,371	29	..	7	192	80
	2012	63,038	62,630	33	..	6	369	0
Japan	2009	1,050,326	677,484	83,832	279,750	3,616	2,758	2,886
	2010	1,117,123	727,762	90,682	288,230	4,017	3,800	2,632
	2011	1,051,261	845,278	91,709	101,761	4,677	5,160	2,676
	2012	1,034,305	920,311	83,645	15,939	4,838	6,963	2,609
Jordan	2009	14,272	14,210	59	..	3	..	..
	2010	14,777	14,713	61	..	3	..	..
	2011	14,647	14,589	55	..	3	..	..
	2012	16,596	16,532	61	..	3	..	..
Kazakhstan	2009	78,710	71,831	6,879	..	0	..	..
	2010	82,646	74,624	8,022	..	0	..	..
	2011	86,586	78,703	7,883	..	0	..	..
	2012	91,207	83,567	7,637	..	3	..	..
Korea, Dem.Ppl's.Rep.	2009	21,129	8,629	12,500	..	..	..	..
	2010	21,665	8,265	13,400	..	..	..	..
	2011	19,227	6,027	13,200	..	..	..	..
	2012	19,236	5,736	13,500	..	..	..	..
Korea, Republic of	2009	454,504	299,668	5,641	147,771	685	566	173
	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
Kuwait	2009	53,216	53,216	..	..	..	..	..
	2010	57,029	57,029	..	..	..	..	..
	2011	57,457	57,457	..	..	..	..	..
	2012	62,655	62,655	..	..	..	..	..
Kyrgyzstan	2009	11,083	866	10,217	..	..	..	..
	2010	12,100	992	11,108	..	..	..	..
	2011	15,158	1,019	14,139	..	..	..	..
	2012	15,168	989	14,179	..	..	..	..
Lao People's Dem. Rep.	2009	3,874	*300	3,381	..	..	*193	..
	2010	3,755	*300	3,262	..	..	*193	..
	2011	3,802	*300	3,309	..	..	*193	..
	2012	*3,802	*300	*3,309	..	..	*193	..
Lebanon	2009	13,771	13,149	622	..	..	..	..
	2010	15,712	14,873	839	..	..	..	..
	2011	16,365	15,560	805	..	..	..	..
	2012	14,826	13,819	1,007	..	..	..	..
Malaysia	2009	107,116	100,491	6,625	..	..	..	..
	2010	116,808	110,556	6,251	..	..	..	..
	2011	124,893	117,269	7,624	..	..	..	..
	2012	134,373	125,319	9,054	..	..	..	..
Maldives	2009	298	298	..	..	..	..	..
	2010	256	256	..	..	..	..	..
	2011	274	274	..	..	..	..	..
	2012	297	297	..	..	..	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
7,550	7,550	..	..	213,820	206,362	7,233	..	225
7,579	7,579	..	..	225,376	215,687	9,526	..	163
9,836	9,836	..	..	230,194	217,592	12,058	327	217
10,740	10,740	..	..	243,513	229,012	12,447	1,847	207
..	..	..	..	46,065	42,837	3,228	..	..
..	..	..	..	48,909	44,142	4,767	..	..
..	..	..	..	54,240	50,100	4,140	..	..
..	..	..	..	61,704	56,280	5,424	..	..
1,816	1,528	4	284	53,192	53,155	20	..	17
1,718	1,638	4	76	56,873	56,812	27	..	34
1,824	1,552	5	267	57,855	57,819	24	..	12
1,550	1,177	4	369	61,488	61,453	29	..	6
124,935	109,085	9,293	6,557	925,391	568,399	74,539	279,750	2,703
142,310	117,921	16,507	7,882	974,813	609,841	74,175	288,230	2,567
143,367	116,262	17,331	9,774	907,894	729,016	74,378	101,761	2,739
143,426	115,444	16,285	11,697	890,879	804,867	67,360	15,939	2,713
263	263	..	..	14,009	13,947	59	..	3
291	291	..	..	14,486	14,422	61	..	3
257	257	..	..	14,390	14,332	55	..	3
241	241	..	..	16,355	16,291	61	..	3
..	..	..	..	78,710	71,831	6,879	..	0
..	..	..	..	82,646	74,624	8,022	..	0
..	..	..	..	86,586	78,703	7,883	..	0
..	..	..	..	91,207	83,567	7,637	..	3
..	..	..	..	21,129	8,629	12,500	..	..
..	..	..	..	21,665	8,265	13,400	..	..
..	..	..	..	19,227	6,027	13,200	..	..
..	..	..	..	19,236	5,736	13,500	..	..
23,886	23,729	..	157	430,618	275,939	5,641	147,771	1,267
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
..	..	..	..	53,216	53,216	..	..	..
..	..	..	..	57,029	57,029	..	..	..
..	..	..	..	57,457	57,457	..	..	..
..	..	..	..	62,655	62,655	..	..	..
..	..	..	..	11,083	866	10,217	..	..
..	..	..	..	12,100	992	11,108	..	..
..	..	..	..	15,158	1,019	14,139	..	..
..	..	..	..	15,168	989	14,179	..	..
*193	..	..	*193	3,681	*300	3,381	..	..
*193	..	..	*193	3,562	*300	3,262	..	..
*193	..	..	*193	3,609	*300	3,309	..	..
*193	..	..	*193	*3,609	*300	*3,309	..	..
2,961	2,961	..	..	10,810	10,188	622	..	..
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	..	..
1,913	1,913	0	..	105,203	98,578	6,625	..	..
1,888	1,888	0	..	114,919	108,668	6,251	..	..
5,133	5,133	0	..	119,760	112,136	7,624	..	..
6,154	6,154	0	..	128,219	119,165	9,054	..	..
..	..	..	..	298	298	..	..	..
..	..	..	..	256	256	..	..	..
..	..	..	..	274	274	..	..	..
..	..	..	..	297	297	..	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Mongolia	2009	4,039	4,039	..	..	..	..	..
	2010	4,313	4,313	..	..	..	..	..
	2011	4,536	4,536	..	..	..	..	..
	2012	4,816	4,816	..	..	..	..	..
Myanmar	2009	6,964	1,708	5,256	..	..	..	..
	2010	8,625	2,436	6,189	..	..	..	..
	2011	*10,424	*2,944	*7,480	..	..	..	..
	2012	*10,965	*3,097	*7,868	..	..	..	..
Nepal	2009	3,115	13	3,102	..	..	..	..
	2010	3,208	3	3,205	..	..	..	..
	2011	3,492	2	3,490	..	..	..	..
	2012	3,552	19	3,533	..	..	..	..
Oman	2009	17,823	17,823	..	..	..	..	..
	2010	19,819	19,819	..	..	..	..	..
	2011	21,354	21,354	..	..	..	..	..
	2012	25,017	25,017	..	..	..	..	..
Other Asia	2009	229,694	180,275	7,053	41,571	787	8	..
	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	..
Pakistan	2009	95,358	64,371	28,093	2,894	..	..	..
	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	..	..	..
Philippines	2009	61,968	41,774	9,805	..	64	1	10,324
	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
Qatar	2009	24,158	24,158	..	..	..	..	..
	2010	28,144	28,144	..	..	..	..	..
	2011	30,730	30,730	..	..	..	..	..
	2012	34,787	34,787	..	..	..	..	..
Saudi Arabia	2009	217,082	217,082	..	..	..	0	..
	2010	240,067	240,067	..	..	..	0	..
	2011	250,077	250,077	..	..	..	0	..
	2012	271,680	271,679	..	..	..	1	..
Singapore	2009	41,800	41,800	..	..	..	..	..
	2010	45,366	45,366	..	..	..	..	..
	2011	45,994	45,994	..	..	..	..	..
	2012	46,915	46,915	..	..	..	..	..
Sri Lanka	2009	9,987	6,086	3,891	..	4	7	..
	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	..
State of Palestine	2009	501	501	..	..	..	..	..
	2010	473	473	..	..	..	..	..
	2011	569	569	..	..	..	..	..
	2012	461	461	..	..	..	..	..
Syrian Arab Republic	2009	43,308	41,442	1,866	..	..	..	..
	2010	46,413	43,821	2,592	..	..	..	..
	2011	42,025	38,742	3,283	..	..	..	..
	2012	31,188	27,951	3,237	..	..	..	..
Tajikistan	2009	16,166	217	15,949	..	..	..	..
	2010	16,436	35	16,401	..	..	..	..
	2011	16,234	38	16,196	..	..	..	..
	2012	16,998	74	16,924	..	..	..	..

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
23	23	..	..	4,016	4,016	..	..	..
28	28	..	..	4,285	4,285	..	..	..
*30	*30	..	..	4,506	4,506	..	..	..
*30	*30	..	..	4,786	4,786	..	..	..
..	..	..	..	6,964	1,708	5,256	..	..
..	..	..	..	8,625	2,436	6,189	..	..
..	..	..	..	*10,424	*2,944	*7,480	..	..
..	..	..	..	*10,965	*3,097	*7,868	..	..
42	..	42	..	3,073	13	3,060	..	..
44	..	44	..	3,164	3	3,161	..	..
59	..	59	..	3,433	2	3,431	..	..
84	..	84	..	3,468	19	3,449	..	..
..	..	..	..	17,823	17,823	..	..	..
..	..	..	..	19,819	19,819	..	..	..
..	..	..	..	21,354	21,354	..	..	..
..	..	..	..	25,017	25,017	..	..	..
36,617	36,617	..	..	193,077	143,658	7,053	41,571	795
37,331	37,331	..	..	209,665	159,782	7,255	41,629	999
36,497	36,497	..	..	215,519	165,097	6,902	42,116	1,404
34,231	34,231	..	..	216,105	165,539	8,606	40,422	1,538
36,814	36,814	..	..	58,544	27,557	28,093	2,894	..
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	..
*34	*17	*17	..	61,934	41,757	9,788	..	10,389
*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
21,121	21,121	..	..	3,037	3,037	..	..	..
25,722	25,722	..	..	2,422	2,422	..	..	..
28,370	28,370	..	..	2,360	2,360	..	..	..
31,799	31,799	..	..	2,988	2,988	..	..	..
33,012	33,012	..	..	184,070	184,070	..	..	0
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
1,136	1,136	..	..	40,664	40,664	..	..	..
1,276	1,276	..	..	44,090	44,090	..	..	..
1,317	1,317	..	..	44,677	44,677	..	..	..
1,724	1,724	..	..	45,191	45,191	..	..	..
17	0	10	7	9,970	6,086	3,881	..	4
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
..	..	..	..	501	501	..	..	..
..	..	..	..	473	473	..	..	..
..	..	..	..	569	569	..	..	..
..	..	..	..	461	461	..	..	..
1,089	1,089	..	..	42,219	40,353	1,866	..	..
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	..	..
..	..	..	..	16,166	217	15,949	..	..
..	..	..	..	16,436	35	16,401	..	..
..	..	..	..	16,234	38	16,196	..	..
..	..	..	..	16,998	74	16,924	..	..



Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Thailand	2009	148,390	141,230	7,148	..	1	9	2
	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
Timor-Leste	2009	132	132	..	..	..	..	..
	2010	137	137	..	..	..	..	..
	2011	140	140	..	..	..	..	..
	2012	126	126	..	..	..	..	..
Turkey	2009	194,812	156,923	35,958	..	1,495	..	436
	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
Turkmenistan	2009	15,983	15,980	3	..	..	..	..
	2010	16,663	16,660	3	..	..	..	..
	2011	17,220	17,220	0	..	..	..	..
	2012	17,750	17,750	0	..	..	..	..
United Arab Emirates	2009	90,573	90,573	..	..	..	..	..
	2010	97,728	97,728	..	..	..	..	..
	2011	99,137	99,137	..	..	..	..	..
	2012	100,927	100,927	..	..	..	..	..
Uzbekistan	2009	49,950	40,620	9,330	..	..	..	..
	2010	51,700	40,854	10,846	..	..	..	..
	2011	52,400	42,160	10,240	..	..	..	..
	2012	52,500	41,290	11,210	..	..	..	..
Viet Nam	2009	83,175	53,194	29,981	..	..	..	..
	2010	94,835	66,780	28,055	..	..	..	..
	2011	105,219	63,944	41,188	..	87	..	..
	2012	118,937	65,676	53,171	..	*90	..	..
Yemen	2009	6,746	6,746	..	..	..	..	..
	2010	7,755	7,755	..	..	..	..	..
	2011	6,206	6,206	..	..	..	..	..
	2012	6,579	6,579	..	..	..	..	..
<b>Europe</b>	<b>2009</b>	<b>4,700,174</b>	<b>2,612,540</b>	<b>756,113</b>	<b>1,168,184</b>	<b>134,160</b>	<b>14,172</b>	<b>15,005</b>
	<b>2010</b>	<b>4,905,756</b>	<b>2,724,312</b>	<b>789,833</b>	<b>1,202,516</b>	<b>150,236</b>	<b>23,349</b>	<b>15,510</b>
	<b>2011</b>	<b>4,851,012</b>	<b>2,702,974</b>	<b>707,152</b>	<b>1,196,643</b>	<b>180,877</b>	<b>47,449</b>	<b>15,918</b>
	<b>2012</b>	<b>4,892,646</b>	<b>2,659,907</b>	<b>761,584</b>	<b>1,175,478</b>	<b>207,535</b>	<b>71,654</b>	<b>16,489</b>
Albania	2009	5,236	6	5,230	..	..	..	..
	2010	7,728	13	7,715	..	..	..	..
	2011	3,947	27	3,920	..	..	..	..
	2012	4,288	0	4,288	..	..	..	..
Andorra	2009	*81	*19	*62	..	..	..	..
	2010	113	13	100	..	..	..	..
	2011	91	12	79	..	..	..	..
	2012	*91	*12	*79	..	..	..	..
Austria	2009	69,088	23,398	43,655	..	1,967	49	19
	2010	71,128	27,403	41,553	..	2,064	89	19
	2011	65,811	25,920	37,771	..	1,934	174	12
	2012	72,616	22,123	47,681	..	2,463	337	12
Belarus	2009	30,376	30,331	44	..	1	..	..
	2010	34,895	34,849	45	..	1	..	..
	2011	32,192	32,149	42	..	1	..	..
	2012	30,799	30,723	70	..	6	..	..
Belgium	2009	91,225	40,999	1,757	47,222	996	166	85
	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	83,071	35,992	1,659	40,295	2,750	2,148	227

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
14,932	14,932	..	..	133,458	126,298	7,148	..	12
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
..	..	..	..	132	132	..	..	..
..	..	..	..	137	137	..	..	..
..	..	..	..	140	140	..	..	..
..	..	..	..	126	126	..	..	..
13,498	11,903	1,593	2	181,314	145,020	34,365	..	1,929
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
..	..	..	..	15,983	15,980	3	..	..
..	..	..	..	16,663	16,660	3	..	..
..	..	..	..	17,220	17,220	0	..	..
..	..	..	..	17,750	17,750	0	..	..
..	..	..	..	90,573	90,573	..	..	..
..	..	..	..	97,728	97,728	..	..	..
..	..	..	..	99,137	99,137	..	..	..
..	..	..	..	100,927	100,927	..	..	..
190	190	..	..	49,760	40,430	9,330	..	..
190	190	..	..	51,510	40,664	10,846	..	..
197	197	..	..	52,203	41,963	10,240	..	..
193	193	..	..	52,307	41,097	11,210	..	..
2,465	2,465	..	..	80,710	50,729	29,981	..	..
*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
609	609	..	..	6,137	6,137	..	..	..
450	450	..	..	7,305	7,305	..	..	..
269	269	..	..	5,937	5,937	..	..	..
337	337	..	..	6,242	6,242	..	..	..
<b>319,206</b>	<b>296,371</b>	<b>15,751</b>	<b>7,084</b>	<b>4,380,968</b>	<b>2,316,169</b>	<b>740,362</b>	<b>1,168,184</b>	<b>156,253</b>
<b>351,166</b>	<b>327,875</b>	<b>15,570</b>	<b>7,721</b>	<b>4,554,589</b>	<b>2,396,436</b>	<b>774,263</b>	<b>1,202,516</b>	<b>181,373</b>
<b>353,645</b>	<b>326,419</b>	<b>15,380</b>	<b>11,846</b>	<b>4,497,368</b>	<b>2,376,555</b>	<b>691,772</b>	<b>1,196,643</b>	<b>232,398</b>
<b>352,764</b>	<b>321,087</b>	<b>15,687</b>	<b>15,990</b>	<b>4,539,883</b>	<b>2,338,821</b>	<b>745,897</b>	<b>1,175,478</b>	<b>279,687</b>
..	..	..	..	5,236	6	5,230	..	..
..	..	..	..	7,728	13	7,715	..	..
..	..	..	..	3,947	27	3,920	..	..
..	..	..	..	4,288	0	4,288	..	..
..	..	..	..	*81	*19	*62	..	..
..	..	..	..	113	13	100	..	..
..	..	..	..	91	12	79	..	..
..	..	..	..	*91	*12	*79	..	..
8,482	7,210	1,255	17	60,606	16,188	42,400	..	2,018
9,397	8,304	1,075	18	61,731	19,099	40,478	..	2,154
9,455	8,478	966	11	56,356	17,442	36,805	..	2,109
9,232	8,043	1,178	11	63,384	14,080	46,503	..	2,801
1,736	1,721	14	1	28,640	28,610	30	..	..
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
3,824	3,574	..	250	87,401	37,425	1,757	47,222	997
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
8,230	5,859	..	2,371	74,841	30,133	1,659	40,295	2,754

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Bosnia and Herzegovina	2009	15,668	9,429	6,239	..	..	..	..
	2010	17,124	9,098	8,026	..	..	..	..
	2011	15,280	10,893	4,387	..	..	..	..
	2012	14,082	9,867	4,215	..	..	..	..
Bulgaria	2009	42,964	23,400	4,053	15,256	237	3	15
	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
Croatia	2009	12,776	5,907	6,815	..	54	0	..
	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	..
Czech Republic	2009	82,250	51,683	2,982	27,208	288	89	..
	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	..
Denmark	2009	36,383	29,639	19	..	6,721	4	..
	2010	38,862	31,026	21	..	7,809	6	..
	2011	35,232	25,426	17	..	9,774	15	..
	2012	30,727	20,336	17	..	10,270	104	..
Estonia	2009	8,779	8,552	32	..	195	..	..
	2010	12,964	12,660	27	..	277	..	..
	2011	12,893	12,495	30	..	368	..	..
	2012	11,967	11,491	42	..	434	..	..
Faeroe Islands	2009	276	168	92	..	15	..	..
	2010	280	199	67	..	14	..	..
	2011	274	167	93	..	15	..	..
	2012	292	181	100	..	11	..	..
Finland	2009	72,062	35,266	12,686	23,526	277	4	303
	2010	80,668	44,329	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
France	2009	535,472	55,235	61,966	409,736	7,913	174	448
	2010	569,166	62,407	67,200	428,521	9,942	620	476
	2011	560,343	53,488	49,865	442,383	12,052	2,078	477
	2012	564,275	55,273	63,595	425,406	14,913	4,015	1,073
Germany	2009	595,617	388,640	24,682	134,932	38,647	6,584	2,132
	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
Gibraltar	2009	174	174	..	..	..	..	..
	2010	177	177	..	..	..	..	..
	2011	171	171	..	..	..	..	..
	2012	176	176	..	..	..	..	..
Greece	2009	61,365	53,127	5,645	..	2,543	50	..
	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	..
Guernsey	2009	174	174	..	..	..	..	..
	2010	152	152	..	..	..	..	..
	2011	85	85	..	..	..	..	..
	2012	68	68	..	..	..	..	..
Hungary	2009	35,908	19,922	228	15,426	331	1	..
	2010	37,371	20,887	188	15,761	534	1	..
	2011	35,983	19,449	222	15,685	626	1	..
	2012	34,590	17,806	213	15,793	770	8	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
320	320	..	..	15,348	9,109	6,239	..	..
402	402	..	..	16,722	8,696	8,026	..	..
325	325	..	..	14,955	10,568	4,387	..	..
343	343	..	..	13,739	9,524	4,215	..	..
204	189	..	15	42,760	23,211	4,053	15,256	240
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
405	400	5	..	12,371	5,507	6,810	..	54
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
8,906	8,336	570	..	73,344	43,347	2,412	27,208	377
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
2,101	2,097	..	4	34,282	27,542	19	..	6,721
2,284	2,278	..	6	36,578	28,748	21	..	7,809
2,164	2,149	..	15	33,068	23,277	17	..	9,774
2,049	1,945	..	104	28,678	18,391	17	..	10,270
96	95	0	1	8,683	8,457	32	..	194
107	106	0	1	12,857	12,554	27	..	276
105	105	0	0	12,788	12,390	30	..	368
98	97	0	1	11,869	11,394	42	..	433
..	..	..	..	276	168	92	..	15
..	..	..	..	280	199	67	..	14
..	..	..	..	274	167	93	..	15
..	..	..	..	292	181	100	..	11
9,970	8,878	896	196	62,092	26,388	11,790	23,526	388
11,042	9,977	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
13,504	12,311	807	386	521,968	42,924	61,159	409,736	8,149
13,326	11,932	814	580	555,840	50,475	66,386	428,521	10,458
15,029	12,149	695	2,185	545,314	41,339	49,170	442,383	12,422
20,837	15,778	838	4,221	543,438	39,495	62,757	425,406	15,780
45,960	44,095	365	1,500	549,657	344,545	24,317	134,932	45,863
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
..	..	..	..	174	174	..	..	..
..	..	..	..	177	177	..	..	..
..	..	..	..	171	171	..	..	..
..	..	..	..	176	176	..	..	..
1,958	1,958	..	..	59,407	51,169	5,645	..	2,593
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
..	..	..	..	174	174	..	..	..
..	..	..	..	152	152	..	..	..
..	..	..	..	85	85	..	..	..
..	..	..	..	68	68	..	..	..
353	352	..	1	35,555	19,570	228	15,426	331
426	425	..	1	36,945	20,462	188	15,761	534
660	659	..	1	35,323	18,790	222	15,685	626
480	472	..	8	34,110	17,334	213	15,793	770

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Iceland	2009	16,834	2	12,279	..	..	..	4,553
	2010	17,059	2	12,592	..	..	..	4,465
	2011	17,211	2	12,507	..	..	..	4,702
	2012	17,549	3	12,337	..	..	..	5,209
Ireland	2009	28,313	24,101	1,257	..	2,955	..	..
	2010	28,602	25,011	776	..	2,815	..	..
	2011	27,472	22,385	707	..	4,380	..	..
	2012	27,592	22,568	1,014	..	4,010	..	..
Isle of Man	2009	533	529	3	..	..	..	..
	2010	498	495	3	..	..	..	..
	2011	499	496	3	..	..	..	..
	2012	296	292	4	..	..	..	..
Italy	2009	292,641	226,034	53,443	..	6,543	676	5,945
	2010	302,064	230,473	54,406	..	9,126	1,906	6,153
	2011	302,584	227,710	47,760	..	9,856	10,796	6,462
	2012	299,277	216,811	43,854	..	13,407	18,862	6,343
Jersey	2009	64	64	..	..	..	..	..
	2010	56	56	..	..	..	..	..
	2011	46	46	..	..	..	..	..
	2012	*47	*47	..	..	..	..	..
Latvia	2009	5,569	2,062	3,457	..	50	..	..
	2010	6,627	3,058	3,520	..	49	..	..
	2011	6,095	3,137	2,887	..	71	..	..
	2012	6,168	2,347	3,707	..	114	..	..
Liechtenstein	2009	71	4	66	..	..	1	..
	2010	79	4	72	..	..	3	..
	2011	72	4	62	..	..	6	..
	2012	86	4	74	..	..	9	..
Lithuania	2009	15,358	2,938	1,139	10,852	158	..	271
	2010	5,749	3,980	1,295	0	224	..	250
	2011	4,822	3,034	1,056	0	475	..	257
	2012	5,043	3,337	937	0	540	2	227
Luxembourg	2009	3,879	2,963	833	..	63	20	..
	2010	4,590	3,046	1,468	..	55	21	..
	2011	3,718	2,498	1,130	..	64	26	..
	2012	3,814	2,543	1,158	..	75	38	..
Malta	2009	2,168	2,168	..	..	..	0	..
	2010	2,115	2,115	..	..	..	0	..
	2011	2,194	2,186	..	..	..	8	..
	2012	2,290	2,277	..	..	..	13	..
Montenegro	2009	2,760	689	2,071	..	..	..	..
	2010	4,022	1,272	2,750	..	..	..	..
	2011	2,656	1,452	1,204	..	..	..	..
	2012	2,844	1,367	1,477	..	..	..	..
Netherlands	2009	113,502	104,419	98	4,228	4,581	46	130
	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
Norway	2009	131,773	4,644	126,077	..	977	..	75
	2010	123,640	5,454	117,152	..	879	..	155
	2011	127,632	4,716	121,552	..	1,283	..	81
	2012	147,845	3,323	142,964	..	1,556	..	2
Poland	2009	151,720	147,669	2,974	..	1,077	..	..
	2010	157,657	152,505	3,488	..	1,664	..	..
	2011	163,548	157,582	2,761	..	3,205	..	..
	2012	162,139	154,926	2,465	..	4,747	1	..

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	16,834	2	12,279	..	4,553
..	..	..	..	17,059	2	12,592	..	4,465
..	..	..	..	17,211	2	12,507	..	4,702
..	..	..	..	17,549	3	12,337	..	5,209
1,833	1,833	..	..	26,480	22,268	1,257	..	2,955
1,947	1,947	..	..	26,655	23,064	776	..	2,815
1,962	1,962	..	..	25,510	20,423	707	..	4,380
2,120	2,120	..	..	25,472	20,448	1,014	..	4,010
..	..	..	..	533	529	3	..	..
..	..	..	..	498	495	3	..	..
..	..	..	..	499	496	3	..	..
..	..	..	..	296	292	4	..	..
20,275	19,000	889	386	272,366	207,034	52,554	..	12,778
23,867	22,424	927	516	278,197	208,049	53,479	..	16,669
23,562	22,182	868	512	279,022	205,528	46,892	..	26,602
16,057	15,025	573	459	283,220	201,786	43,281	..	38,153
18	18	..	..	46	46	..	..	..
15	15	..	..	41	41	..	..	..
33	33	..	..	13	13	..	..	..
*34	*34	..	..	*13	*13	..	..	..
75	63	8	4	5,494	1,999	3,449	..	46
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
..	..	..	..	71	4	66	..	1
..	..	..	..	79	4	72	..	3
..	..	..	..	72	4	62	..	6
..	..	..	..	86	4	74	..	9
622	351	..	271	14,736	2,587	1,139	10,852	158
552	302	..	250	5,197	3,678	1,295	0	224
600	343	..	257	4,222	2,691	1,056	0	475
787	560	..	227	4,256	2,777	937	0	542
207	181	6	20	3,672	2,782	827	..	63
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	3,589	2,361	1,153	..	75
0	0	..	..	2,168	2,168	..	..	0
2	2	..	..	2,113	2,113	..	..	0
2	2	..	..	2,192	2,184	..	..	8
9	9	..	..	2,281	2,268	..	..	13
..	..	..	..	2,760	689	2,071	..	..
..	..	..	..	4,022	1,272	2,750	..	..
..	..	..	..	2,656	1,452	1,204	..	..
..	..	..	..	2,844	1,367	1,477	..	..
21,790	20,730	..	1,060	91,712	83,689	98	4,228	3,697
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
9,513	4,436	5,007	70	122,260	208	121,070	..	982
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
8,087	2,959	5,126	2	139,758	364	137,838	..	1,556
6,882	6,880	2	..	144,838	140,789	2,972	..	1,077
7,966	7,964	2	..	149,691	144,541	3,486	..	1,664
8,342	8,340	2	..	155,206	149,242	2,759	..	3,205
8,449	8,446	2	1	153,690	146,480	2,463	..	4,747

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Portugal	2009	50,207	33,277	9,009	..	7,577	160	184
	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
Republic of Moldova	2009	1,033	978	55	..	..	..	..
	2010	1,064	985	79	..	..	..	..
	2011	1,016	940	76	..	..	..	..
	2012	932	898	34	..	..	..	..
Romania	2009	58,014	30,446	15,807	11,752	9	0	..
	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	..
Russian Federation	2009	991,980	651,810	176,118	163,584	4	..	464
	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
Serbia	2009	38,322	27,178	11,144	..	..	..	..
	2010	38,103	25,532	12,571	..	..	..	..
	2011	38,600	29,357	9,243	..	..	..	..
	2012	36,799	26,885	9,914	..	..	..	..
Slovakia	2009	26,155	7,425	4,604	14,081	6	..	39
	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
Slovenia	2009	16,401	5,945	4,713	5,739	..	4	..
	2010	16,433	6,066	4,697	5,657	..	13	..
	2011	16,057	6,074	3,703	6,215	..	65	..
	2012	15,729	5,958	4,080	5,528	..	163	..
Spain	2009	294,620	168,175	29,162	52,761	38,117	6,064	341
	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
Sweden	2009	136,729	16,087	65,977	52,173	2,485	7	..
	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	..
Switzerland	2009	68,453	3,187	37,507	27,686	23	50	..
	2010	67,815	3,531	37,825	26,339	37	83	..
	2011	64,626	3,564	34,133	26,710	70	149	..
	2012	69,866	3,712	40,305	25,441	88	320	..
T.F.Yug.Rep. Macedonia	2009	6,828	5,558	1,270	..	..	..	..
	2010	7,260	4,829	2,431	..	..	..	..
	2011	6,759	5,325	1,433	..	..	1	..
	2012	6,262	5,218	1,041	..	..	3	..
Ukraine	2009	173,619	78,716	11,936	82,924	43	..	..
	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	..
United Kingdom	2009	376,755	289,403	8,926	69,098	9,307	20	1
	2010	381,760	302,669	6,725	62,140	10,184	40	2
	2011	367,455	274,126	8,595	68,980	15,509	244	1
	2012	363,837	264,405	8,251	70,405	19,584	1,188	4
Oceania	2009	302,179	253,653	38,085	..	5,355	165	4,922
	2010	307,430	254,165	40,280	..	6,750	291	5,944
	2011	307,580	248,697	44,023	..	7,815	863	6,182
	2012	303,688	248,536	39,160	..	8,254	1,503	6,235

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
6,515	6,499	16	..	43,692	26,778	8,993	..	7,921
7,743	7,721	19	3	46,347	20,229	16,528	..	9,590
8,346	8,250	14	82	44,117	22,443	12,101	..	9,573
8,344	8,184	10	150	38,270	20,967	6,650	..	10,653
21	21	..	..	1,012	957	55	..	..
38	38	..	..	1,026	947	79	..	..
34	34	..	..	982	906	76	..	..
32	32	..	..	900	866	34	..	..
2,305	2,084	220	1	55,709	28,362	15,587	11,752	8
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
52,364	51,432	932	..	939,616	600,378	175,186	163,584	468
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
160	160	..	..	38,162	27,018	11,144	..	..
286	286	..	..	37,817	25,246	12,571	..	..
230	230	..	..	38,370	29,127	9,243	..	..
171	171	..	..	36,628	26,714	9,914	..	..
2,090	1,937	108	45	24,065	5,488	4,496	14,081	..
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
466	300	163	3	15,935	5,645	4,550	5,739	1
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
38,125	37,137	609	379	256,495	131,038	28,553	52,761	44,143
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
5,589	5,573	16	..	131,140	10,514	65,961	52,173	2,492
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
5,898	2,958	2,890	50	62,555	229	34,617	27,686	23
6,202	3,318	2,801	83	61,613	213	35,024	26,339	37
5,985	3,353	2,483	149	58,641	211	31,650	26,710	70
6,571	3,433	2,818	320	63,295	279	37,487	25,441	88
1	1	..	..	6,827	5,557	1,270	..	..
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
4,642	4,616	26	..	168,977	74,100	11,910	82,924	43
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
41,996	38,625	947	2,424	334,759	250,778	7,979	69,098	6,904
41,687	38,730	872	2,085	340,073	263,939	5,853	62,140	8,141
40,747	36,572	1,096	3,079	326,708	237,554	7,499	68,980	12,675
41,675	36,668	1,115	3,892	322,162	227,737	7,136	70,405	16,884
<b>20,012</b>	<b>19,373</b>	<b>372</b>	<b>267</b>	<b>282,168</b>	<b>234,280</b>	<b>37,713</b>	<b>..</b>	<b>10,175</b>
<b>20,197</b>	<b>19,431</b>	<b>372</b>	<b>394</b>	<b>287,233</b>	<b>234,733</b>	<b>39,908</b>	<b>..</b>	<b>12,591</b>
<b>21,299</b>	<b>19,960</b>	<b>372</b>	<b>967</b>	<b>286,281</b>	<b>228,738</b>	<b>43,651</b>	<b>..</b>	<b>13,893</b>
<b>22,592</b>	<b>20,633</b>	<b>372</b>	<b>1,587</b>	<b>281,096</b>	<b>227,903</b>	<b>38,788</b>	<b>..</b>	<b>14,405</b>



Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
American Samoa	2009	178	178	..	..	..	..	..
	2010	159	159	..	..	..	..	..
	2011	155	155	..	..	..	..	..
	2012	157	156	..	..	..	1	..
Australia	2009	248,753	232,900	11,869	..	3,824	160	..
	2010	252,155	233,270	13,549	..	5,052	283	1
	2011	252,623	229,154	16,807	..	5,807	854	1
	2012	248,941	227,253	14,083	..	6,113	1,492	0
Cook Islands	2009	33	33	..	..	..	..	..
	2010	34	34	..	..	..	..	..
	2011	34	34	..	..	..	..	..
	2012	33	33	..	..	..	..	..
Fiji	2009	809	342	460	..	7	..	..
	2010	869	449	414	..	6	..	..
	2011	835	374	456	..	5	..	..
	2012	837	305	525	..	7	..	..
French Polynesia	2009	*736	*521	210	..	0	3	..
	2010	*818	*538	276	..	0	*3	..
	2011	*761	*533	*225	..	0	*3	..
	2012	*766	*553	*209	..	0	*3	..
Guam	2009	1,868	1,868	..	..	..	..	..
	2010	*1,882	*1,882	..	..	..	..	..
	2011	*1,858	*1,858	..	..	..	..	..
	2012	*1,799	*1,799	..	..	..	..	..
Kiribati	2009	*22	*22	..	..	..	..	..
	2010	*24	*24	..	..	..	..	..
	2011	*24	*24	..	..	..	..	..
	2012	*24	*24	..	..	..	..	..
Marshall Islands	2009	*111	*111	..	..	..	..	..
	2010	*114	*114	..	..	..	..	..
	2011	*114	*114	..	..	..	..	..
	2012	*114	*114	..	..	..	..	..
Micronesia(Fed. States of)	2009	70	69	..	..	..	*1	..
	2010	70	68	..	..	..	*2	..
	2011	66	64	..	..	..	*2	..
	2012	*67	*65	..	..	..	*2	..
Nauru	2009	21	21	..	..	..	..	..
	2010	23	23	..	..	..	..	..
	2011	23	23	..	..	..	..	..
	2012	24	24	..	..	..	..	..
New Caledonia	2009	1,939	1,491	406	..	42	..	..
	2010	2,131	1,811	265	..	52	3	..
	2011	2,256	1,833	375	..	46	3	..
	2012	2,264	1,804	399	..	57	4	..
New Zealand	2009	43,453	12,834	24,221	..	1,476	..	4,922
	2010	44,876	12,583	24,716	..	1,634	..	5,943
	2011	44,465	11,218	25,114	..	1,952	..	6,181
	2012	44,295	13,092	22,894	..	2,074	..	6,235
Niue	2009	*3	*3	..	..	..	..	..
	2010	*3	*3	..	..	..	..	..
	2011	*3	*3	..	..	..	..	..
	2012	*3	*3	..	..	..	..	..
Northern Mariana Islands	2009	*397	*397	..	..	..	..	..
	2010	*400	*400	..	..	..	..	..
	2011	*400	*400	..	..	..	..	..
	2012	*400	*400	..	..	..	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	178	178	..	..	..
..	..	..	..	159	159	..	..	..
..	..	..	..	155	155	..	..	..
..	..	..	..	157	156	..	..	1
16,073	15,917	..	156	232,680	216,983	11,869	..	3,828
16,288	16,009	..	279	235,867	217,261	13,549	..	5,057
17,393	16,543	..	850	235,230	212,611	16,807	..	5,812
18,611	17,122	..	1,489	230,330	210,131	14,083	..	6,116
..	..	..	..	33	33	..	..	..
..	..	..	..	34	34	..	..	..
..	..	..	..	34	34	..	..	..
..	..	..	..	33	33	..	..	..
32	32	..	..	777	310	460	..	7
34	34	..	..	835	415	414	..	6
*34	*34	..	..	801	340	456	..	5
*34	*34	..	..	803	271	525	..	7
..	..	..	..	*736	*521	210	..	4
..	..	..	..	*818	*538	276	..	*4
..	..	..	..	*761	*533	*225	..	*4
..	..	..	..	*766	*553	*209	..	*4
..	..	..	..	1,868	1,868	..	..	..
..	..	..	..	*1,882	*1,882	..	..	..
..	..	..	..	*1,858	*1,858	..	..	..
..	..	..	..	*1,799	*1,799	..	..	..
..	..	..	..	*22	*22	..	..	..
..	..	..	..	*24	*24	..	..	..
..	..	..	..	*24	*24	..	..	..
..	..	..	..	*24	*24	..	..	..
..	..	..	..	*111	*111	..	..	..
..	..	..	..	*114	*114	..	..	..
..	..	..	..	*114	*114	..	..	..
..	..	..	..	*114	*114	..	..	..
..	..	..	..	70	69	..	..	*1
..	..	..	..	70	68	..	..	*2
..	..	..	..	66	64	..	..	*2
..	..	..	..	*67	*65	..	..	*2
..	..	..	..	21	21	..	..	..
..	..	..	..	23	23	..	..	..
..	..	..	..	23	23	..	..	..
..	..	..	..	24	24	..	..	..
..	..	..	..	1,939	1,491	406	..	42
..	..	..	..	2,131	1,811	265	..	54
..	..	..	..	2,256	1,833	375	..	49
..	..	..	..	2,264	1,804	399	..	61
1,317	1,194	12	111	42,136	11,640	24,209	..	6,287
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
1,363	1,253	12	98	42,932	11,839	22,882	..	8,211
..	..	..	..	*3	*3	..	..	..
..	..	..	..	*3	*3	..	..	..
..	..	..	..	*3	*3	..	..	..
..	..	..	..	*3	*3	..	..	..
..	..	..	..	*397	*397	..	..	..
..	..	..	..	*400	*400	..	..	..
..	..	..	..	*400	*400	..	..	..
..	..	..	..	*400	*400	..	..	..

Table 32

## Production of electricity - by type

Gigawatt-hours

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Palau	2009	*101	*83	*18	..	..	..	..
	2010	*98	*80	*18	..	..	..	..
	2011	*96	*78	*18	..	..	..	..
	2012	*96	*78	*18	..	..	..	..
Papua New Guinea	2009	3,341	2,487	854	..	..	..	..
	2010	3,425	2,439	987	..	..	..	..
	2011	3,525	2,539	987	..	..	..	..
	2012	*3,525	*2,539	*987	..	..	..	..
Samoa	2009	113	74	39	..	..	..	..
	2010	116	69	48	..	..	..	..
	2011	114	79	35	..	..	..	..
	2012	117	80	37	..	..	..	..
Solomon Islands	2009	84	84	..	..	..	..	..
	2010	87	87	..	..	..	..	..
	2011	83	83	..	..	..	..	..
	2012	83	83	..	..	..	..	..
Tonga	2009	55	55	..	..	..	..	..
	2010	52	52	..	..	..	..	..
	2011	53	53	..	..	..	..	..
	2012	52	52	..	..	..	..	..
Tuvalu	2009	*5	*5	..	..	..	..	..
	2010	*5	*5	..	..	..	..	..
	2011	*5	*5	..	..	..	..	..
	2012	*5	*5	..	..	..	..	..
Vanuatu	2009	69	56	7	..	6	..	..
	2010	69	56	8	..	5	..	..
	2011	*68	*57	6	..	*5	..	..
	2012	67	57	7	..	*3	..	..
Wallis and Futuna Is.	2009	20	20	..	..	..	..	..
	2010	20	20	..	..	..	..	..
	2011	20	20	..	..	..	..	..
	2012	19	19	..	..	..	..	..

## Production of electricity - by type

Gigawatt-hours

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
*6	*6	..	..	*95	*77	*18	..	..
*6	*6	..	..	*92	*74	*18	..	..
*6	*6	..	..	*90	*72	*18	..	..
*6	*6	..	..	*90	*72	*18	..	..
2,571	2,211	360	..	770	276	494	..	..
2,465	2,105	360	..	960	334	627	..	..
2,565	2,205	360	..	960	334	627	..	..
*2,565	*2,205	*360	..	*960	*334	*627	..	..
*5	*5	..	..	108	69	39	..	..
*5	*5	..	..	111	64	48	..	..
*5	*5	..	..	109	74	35	..	..
*5	*5	..	..	112	75	37	..	..
*8	*8	..	..	76	76	..	..	..
*8	*8	..	..	79	79	..	..	..
*8	*8	..	..	75	75	..	..	..
*8	*8	..	..	75	75	..	..	..
..	..	..	..	55	55	..	..	..
..	..	..	..	52	52	..	..	..
..	..	..	..	53	53	..	..	..
..	..	..	..	52	52	..	..	..
..	..	..	..	*5	*5	..	..	..
..	..	..	..	*5	*5	..	..	..
..	..	..	..	*5	*5	..	..	..
..	..	..	..	*5	*5	..	..	..
..	..	..	..	69	56	7	..	6
..	..	..	..	69	56	8	..	5
..	..	..	..	*68	*57	6	..	*5
..	..	..	..	67	57	7	..	*3
..	..	..	..	20	20	..	..	..
..	..	..	..	20	20	..	..	..
..	..	..	..	20	20	..	..	..
..	..	..	..	19	19	..	..	..