

PORTUGAL

3. Summary electricity production and consumption ⁽¹⁾

(TWh)

	1973	1980	1990	2000	2005	2010	2011	2012e
Gross production	9.8	15.3	28.5	43.8	46.6	54.1	52.5	46.6
Nuclear	-	-	-	-	-	-	-	-
Hydro	7.4	8.1	9.3	11.7	5.1	16.5	12.1	6.6
<i>of which:</i>								
<i>pumped storage production</i>	<i>0.0</i>	<i>0.1</i>	<i>0.1</i>	<i>0.4</i>	<i>0.4</i>	<i>0.4</i>	<i>0.6</i>	<i>1.0</i>
Geothermal	-	0.0	0.0	0.1	0.1	0.2	0.2	0.2
Solar	-	-	0.0	0.0	0.0	0.2	0.3	0.4
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	0.0	0.2	1.8	9.2	9.2	10.3
Combustible fuels	2.5	7.2	19.2	31.8	39.6	28.0	30.7	29.2
<i>Coal</i>	<i>0.4</i>	<i>0.3</i>	<i>9.1</i>	<i>14.7</i>	<i>15.2</i>	<i>7.1</i>	<i>9.8</i>	<i>13.1</i>
<i>Oil</i>	<i>1.9</i>	<i>6.5</i>	<i>9.4</i>	<i>8.4</i>	<i>8.8</i>	<i>3.0</i>	<i>2.7</i>	<i>2.4</i>
<i>Natural gas</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>7.1</i>	<i>13.6</i>	<i>14.9</i>	<i>14.9</i>	<i>10.4</i>
<i>Biofuels & waste</i>	<i>0.2</i>	<i>0.3</i>	<i>0.7</i>	<i>1.6</i>	<i>2.0</i>	<i>2.9</i>	<i>3.2</i>	<i>3.2</i>
Other (e.g. fuel cells)	-	-	-	-	-	0.0	0.0	0.0
- Own use by power plant	0.2	0.5	1.2	1.5	1.6	1.3	1.3	..
Net production	9.6	14.7	27.3	42.2	45.0	52.8	51.1	..
Nuclear	..	-	-	-	-	-	-	..
Hydro	..	7.9	9.1	11.6	5.0	16.3	12.0	..
Geothermal	..	0.0	0.0	0.1	0.1	0.2	0.2	..
Solar	..	-	0.0	0.0	0.0	0.2	0.3	..
Tide, wave, ocean	..	-	-	-	-	-	-	..
Wind	..	-	0.0	0.2	1.8	9.1	9.1	..
Combustible fuels	..	6.8	18.1	30.4	38.1	27.0	29.6	..
Other (e.g. fuel cells)	..	-	-	-	-	0.0	0.0	..
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	0.0	0.1	0.2	0.6	0.6	0.5	0.7	1.3
+ Imports	0.1	2.3	1.7	4.7	9.6	5.8	6.7	10.8
- Exports	0.1	0.5	1.7	3.8	2.8	3.2	3.9	2.9
Electrical energy supplied	9.5	16.5	27.1	42.6	51.2	54.9	53.2	..
- Transmission & distr. losses	1.2	1.9	3.2	3.6	4.2	4.3	4.1	..
- Statistical difference	-	-	-	-	-	-	-	..
Total consumption	8.3	14.6	24.0	38.9	47.0	50.6	49.1	..
- Energy industry consumption ⁽²⁾	0.1	0.3	0.4	0.6	0.7	0.7	0.8	..
Final consumption	8.2	14.3	23.5	38.4	46.3	49.9	48.4	..
Industry	5.1	8.2	12.2	16.0	17.2	17.5	17.0	..
Transport	0.2	0.2	0.3	0.4	0.5	0.5	0.4	..
Commercial & publ. serv.	1.1	2.5	4.8	11.3	14.4	16.4	16.3	..
Residential	1.7	3.3	5.9	10.1	13.2	14.5	13.8	..
Agriculture & fishing	0.1	0.1	0.3	0.7	1.0	1.0	1.0	..
Sector non specified	-	-	-	-	-	-	-	..

Source: IEA/OECD Electricity Statistics.

(1) Electricity generation from main activity producer power plants and autoproducers.

(2) Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes; excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Note: Please refer to definitions in the introductory information.

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4. Electricity production and generation by source
(TWh)

	1974	1980	1990	2000	2009	2010	2011	Average annual percent change	
								74-90	90-11
Total gross production	10.75	15.26	28.50	43.76	50.21	54.09	52.46	6.3	2.9
- <i>Hydro pumped storage</i>	<i>0.06</i>	<i>0.06</i>	<i>0.15</i>	<i>0.39</i>	<i>0.73</i>	<i>0.40</i>	<i>0.58</i>	<i>5.7</i>	<i>6.7</i>
Total generation⁽¹⁾	10.69	15.21	28.36	43.37	49.48	53.69	51.88	6.3	2.9
<u>Main activity producers</u>									
Gross production	10.22	14.38	27.06	38.97	43.69	46.35	44.12	6.3	2.4
- <i>Hydro pumped storage</i>	<i>0.06</i>	<i>0.06</i>	<i>0.15</i>	<i>0.39</i>	<i>0.73</i>	<i>0.40</i>	<i>0.58</i>	<i>5.7</i>	<i>6.7</i>
Total generation ⁽¹⁾	10.16	14.32	26.92	38.58	42.97	45.95	43.54	6.3	2.3
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	7.79	7.98	9.13	11.31	8.27	16.13	11.53	1.0	1.1
Geothermal	-	0.00	0.00	0.08	0.18	0.20	0.21	-	20.8
Solar, wind, tide ⁽²⁾	-	-	0.00	0.17	7.74	9.39	9.36	-	49.5
Coal	0.31	0.31	9.06	14.60	12.90	7.10	9.85	23.5	0.4
Oil	2.06	6.03	8.73	5.72	1.79	1.49	1.35	9.4	-8.5
Natural gas	-	-	-	6.70	11.77	11.01	10.56	-	-
Biofuels & waste	-	-	-	0.01	0.32	0.63	0.69	-	-
<u>Autoproducers</u>									
Gross production	0.53	0.88	1.44	4.79	6.52	7.74	8.34	6.5	8.7
- <i>Hydro pumped storage</i>	-	-	-	-	-	-	-	-	-
Total generation ⁽¹⁾	0.53	0.88	1.44	4.79	6.52	7.74	8.34	6.5	8.7
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	0.04	0.04	0.03	0.02	0.02	0.02	0.01	-1.5	-3.4
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide ⁽²⁾	-	-	-	-	-	0.00	0.08	-	-
Coal	0.03	0.04	0.05	0.09	-	-	-	1.8	-
Oil	0.28	0.49	0.67	2.70	1.49	1.52	1.33	5.7	3.3
Natural gas	-	-	-	0.44	2.94	3.89	4.36	-	-
Biofuels & waste	0.18	0.32	0.69	1.55	2.07	2.31	2.56	8.8	6.4

Source: IEA/OECD *Energy Balances* and IEA/OECD *Energy Statistics of OECD Countries*.

(1) Electricity generated = gross production - amount of electricity produced in pumped storage plants.

(2) Includes wave, ocean and other sources (e.g. fuel cells, from chemical heat).

Note: Please refer to definitions in the introductory information.

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9. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)

	1980	1990	2000	2009	2010	2011	Average annual percent change 1990-2011
Hard coal⁽¹⁾ and patent fuel							
Fuel input (1000 t)	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Brown coal							
Fuel input (1000 t)	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Peat							
Fuel input (1000 t)	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Coal manufactured gases⁽²⁾							
Fuel input (TJ)	601	833	1922	-	-	-	-
Electricity production (GWh)	38	45	93	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Petroleum products							
Fuel input (1000 t)	241	226	680	430	332	271	0.9
Fuel input (TJ)	9706	9071	27577	17396	13565	10993	0.9
Electricity production (GWh)	866	865	3230	1822	1710	1526	2.7
CHP Heat production (TJ)	892	1188	4274	4749	2863	2378	3.4
Natural gas⁽²⁾							
Fuel input (TJ)	-	-	5299	34834	48426	50525	-
Electricity production (GWh)	-	-	518	2930	3878	4326	-
CHP Heat production (TJ)	-	-	1352	11306	18209	18218	-
Wood and other solid waste							
Fuel input (TJ)	3450	6253	7382	8058	8112	8747	1.6
Electricity production (GWh)	319	689	1030	1364	1560	1722	4.5
CHP Heat production (TJ)	-	-	-	-	-	-	-
Industrial waste							
Fuel input (TJ)	-	-	-	83	42	64	-
Electricity production (GWh)	-	-	-	9	5	9	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Municipal waste							
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Biogases and liquid biofuels							
Fuel input (TJ)	-	-	48	117	141	153	-
Electricity production (GWh)	-	-	2	11	11	11	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Total combustible fuels⁽³⁾							
Electricity production (GWh)	1223	1599	4873	6136	7164	7594	7.7
CHP Heat production (TJ)	892	1188	5626	16055	21072	20596	14.6

Source: IEA/OECD Electricity Statistics.

(1) Includes sub-bituminous coal.

(2) Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

(3) Includes non-specified combustible fuels not shown in this table.

Note: Please refer to notes in the introductory information for data coverage.

SLOVAK REPUBLIC

3. Summary electricity production and consumption ⁽¹⁾

(TWh)

	1973	1980	1990	2000	2005	2010	2011	2012e
Gross production	12.3	20.1	26.1 e	31.2 e	31.5	27.9 e	28.7	28.6
Nuclear	0.2	4.5	12.0	16.5	17.7	14.6	15.4	15.5
Hydro	1.3	2.4	2.5	5.0	4.7	5.6	4.1	4.4
<i>of which:</i>								
<i>pumped storage production</i>	-	0.1	0.6	0.4	0.1	0.4	0.4	0.3
Geothermal	-	-	-	-	-	-	-	-
Solar	-	-	-	-	-	0.0 e	0.4	0.6
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	0.0	0.0	0.0	0.0
Combustible fuels	10.7	13.2	11.6 e	9.7 e	9.0	7.6	8.6	8.0
<i>Coal</i>	7.9	7.6	8.1	6.1 e	6.0	4.1	4.0	3.8
<i>Oil</i>	2.2	3.6	1.6	0.2 e	0.7	0.6	0.6	0.5
<i>Natural gas</i>	0.6	2.0	1.8 e	3.3 e	2.2	2.2	3.2	2.9
<i>Biofuels & waste</i>	-	-	-	0.0	0.1	0.7	0.8	0.8
Other (e.g. fuel cells)	-	-	-	-	0.0	0.0	0.1	0.1
- Own use by power plant	1.6	2.5	3.1 e	3.4 e	2.2	2.4	2.6	..
Net production	10.7	17.6	23.0 e	27.7 e	29.3	25.4 e	26.1	..
Nuclear	..	-	10.6 e	14.6 e	16.4	12.8	14.3	..
Hydro	..	-	2.4 e	4.7 e	4.7	5.6	3.6	..
Geothermal	..	-	-	-	-	-	-	..
Solar	..	-	-	-	-	0.0 e	0.4	..
Tide, wave, ocean	..	-	-	-	-	-	-	..
Wind	..	-	-	-	0.0	0.0	0.0	..
Combustible fuels	..	-	10.1 e	8.5 e	8.2	7.0	7.7	..
Other (e.g. fuel cells)	..	-	-	-	0.0	0.0	0.1	..
- Used for heat pumps	-	-	-	-	0.0	0.0	0.0	0.0
- Used for electric boilers	-	-	-	-	0.0	0.0	0.0	0.0
- Used for pumped storage	0.1	0.2	1.2	0.4	0.2	0.5	0.5	0.4
+ Imports	3.0	3.5	7.3	6.0	8.0	7.3	11.2	13.4
- Exports	0.2	0.2	2.1	8.6	11.3	6.3	10.5	13.1
Electrical energy supplied	13.4	20.7	27.1 e	24.6 e	25.9	25.9	26.3	..
- Transmission & distr. losses	1.1	1.7	2.0 e	1.8 e	1.7	0.9	0.5	..
- Statistical difference	-	-	1.7	0.4	-	-	-	..
Total consumption	12.3	19.0	23.4	22.5	24.2	25.1 e	25.8	..
- Energy industry consumption ⁽²⁾	-	-	-	0.5	1.3	0.9	1.0	..
Final consumption	12.3	19.0	23.4	22.0	22.9	24.1 e	24.8	..
Industry	8.3	12.9	15.0	9.7	11.0	10.9	11.2	..
Transport	0.6	1.0	1.2	1.0	0.6	0.5	0.5	..
Commercial & publ. serv.	1.0	1.6	2.4	5.3	6.2	8.0 e	8.2	..
Residential	1.5	2.4	3.7	5.4	4.7	4.4 e	4.5	..
Agriculture & fishing	0.8	1.2	1.2	0.6	0.4	0.3	0.3	..
Sector non specified	-	-	-	-	-	-	-	..

Source: IEA/OECD Electricity Statistics.

(1) Electricity generation from main activity producer power plants and autoproducers.

(2) Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes; excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Note: Please refer to definitions in the introductory information.

SLOVAK REPUBLIC

4. Electricity production and generation by source
(TWh)

	1974	1980	1990	2000	2009	2010	2011	Average annual percent change	
								74-90	90-11
Total gross production	12.89	20.08	26.13	31.16	26.16	27.86	28.66	4.5	0.4
- <i>Hydro pumped storage</i>	-	0.11	0.64	0.36	0.24	0.39	0.37	-	-2.6
Total generation⁽¹⁾	12.89	19.97	25.50	30.80	25.92	27.46	28.29	4.4	0.5
<u>Main activity producers</u>									
Gross production	12.89	20.08	23.54	29.59	24.07	25.82	26.16	3.8	0.5
- <i>Hydro pumped storage</i>	-	0.11	0.64	0.36	0.24	0.39	0.37	-	-2.6
Total generation ⁽¹⁾	12.89	19.97	22.90	29.23	23.83	25.42	25.80	3.7	0.6
Nuclear	0.49	4.52	12.04	16.49	14.08	14.57	15.41	22.2	1.2
Hydro	2.22	2.26	1.88	4.62	4.26	5.15	3.68	-1.0	3.2
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide ⁽²⁾	-	-	-	-	-	0.00	0.09	-	-
Coal	6.58	7.56	6.43	4.78	3.28	3.14	3.13	-0.1	-3.4
Oil	2.81	3.58	0.81	0.20	0.54	0.59	0.58	-7.5	-1.6
Natural gas	0.79	2.04	1.75	3.11	1.63	1.87	2.76	5.1	2.2
Biofuels & waste	-	-	-	0.03	0.04	0.10	0.15	-	-
<u>Autoproducers</u>									
Gross production	-	-	2.59	1.57	2.09	2.04	2.49	-	-0.2
- <i>Hydro pumped storage</i>	-	-	-	-	-	-	-	-	-
Total generation ⁽¹⁾	-	-	2.59	1.57	2.09	2.04	2.49	-	-0.2
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	0.11	0.11	0.10	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide ⁽²⁾	-	-	-	-	0.05	0.06	0.40	-	-
Coal	-	-	1.69	1.33	1.00	0.94	0.90	-	-2.9
Oil	-	-	0.83	-	0.09	0.01	0.01	-	-20.9
Natural gas	-	-	0.07	0.24	0.34	0.33	0.39	-	8.5
Biofuels & waste	-	-	-	-	0.51	0.59	0.69	-	-

Source: IEA/OECD *Energy Balances* and IEA/OECD *Energy Statistics of OECD Countries*.

(1) Electricity generated = gross production - amount of electricity produced in pumped storage plants.

(2) Includes wave, ocean and other sources (e.g. fuel cells, from chemical heat).

Note: Please refer to definitions in the introductory information.

SLOVAK REPUBLIC

9. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)

	1980	1990	2000	2009	2010	2011	Average annual percent change 1990-2011
Hard coal and patent fuel							
Fuel input (1000 t)	-	1976 e	1329 e	771	709	678	-5.0
Fuel input (TJ)	-	48809 e	33011 e	19454	17626	16646	-5.0
Electricity production (GWh)	-	4472 e	3369 e	1646	1395	1304	-5.7
CHP Heat production (TJ)	-	8988 e	4498 e	2742	2799	2593	-5.7
Brown coal							
Fuel input (1000 t)	-	1590 e	1256 e	1953	2879	2986	3.0
Fuel input (TJ)	-	19158 e	14686 e	22583	32700	32927	2.6
Electricity production (GWh)	-	728 e	532 e	1452	2175	2250	5.5
CHP Heat production (TJ)	-	7917 e	6228 e	6464	8632	8438	0.3
Peat							
Fuel input (1000 t)	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Coal manufactured gases⁽¹⁾							
Fuel input (TJ)	-	3501 e	2998 e	2531	3003	3024	-0.7
Electricity production (GWh)	-	617 e	527 e	421	510	484	-1.1
CHP Heat production (TJ)	-	175 e	170 e	132	147	135	-1.2
Petroleum products							
Fuel input (1000 t)	578	254	-	267	307	281	0.5
Fuel input (TJ)	23230	10210	-	10752	12381	11297	0.5
Electricity production (GWh)	3583	1627 e	-	620	595	583	-4.8
CHP Heat production (TJ)	-	1974 e	-	5214	6366	5286	4.8
Natural gas⁽¹⁾							
Fuel input (TJ)	13874	25758 e	29340 e	18540	19322	20386	-1.1
Electricity production (GWh)	2044	1154 e	2792 e	1586	1620	1875	2.3
CHP Heat production (TJ)	9986	6235 e	5098 e	7108	7418	7089	0.6
Wood and other solid waste							
Fuel input (TJ)	-	-	-	6051	9828	11385	-
Electricity production (GWh)	-	-	-	493	606	682	-
CHP Heat production (TJ)	-	-	-	1167	2454	2399	-
Industrial waste							
Fuel input (TJ)	-	-	-	60	100	130	-
Electricity production (GWh)	-	-	-	2	11	11	-
CHP Heat production (TJ)	-	-	-	33	14	63	-
Municipal waste							
Fuel input (TJ)	-	-	-	1171	792	907	-
Electricity production (GWh)	-	-	-	36	35	39	-
CHP Heat production (TJ)	-	-	-	45	-	-	-
Biogases and liquid biofuels							
Fuel input (TJ)	-	-	-	263	331	767	-
Electricity production (GWh)	-	-	-	21	32	74	-
CHP Heat production (TJ)	-	-	-	16	50	138	-
Total combustible fuels⁽²⁾							
Electricity production (GWh)	5627	8598 e	7220 e	6277	6979	7302	-0.8
CHP Heat production (TJ)	27226	25289 e	15994 e	22921	27880	26141	0.2

Source: IEA/OECD Electricity Statistics.

(1) Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

(2) Includes non-specified combustible fuels not shown in this table.

Note: Please refer to notes in the introductory information for data coverage.

SLOVENIA

3. Summary electricity production and consumption ⁽¹⁾

	(TWh)							
	1973	1980	1990	2000	2005	2010	2011	2012e
Gross production	12.4	13.6	15.1	16.4	16.1	15.7
Nuclear	4.6	4.8	5.9	5.7	6.2	5.5
Hydro	3.0	3.8	3.5	4.7	3.7	4.1
<i>of which:</i>								
<i>pumped storage production</i>	-	-	-	0.2	0.1	0.2
Geothermal	-	-	-	-	-	-
Solar	-	-	-	0.0	0.1	0.2
Tide, wave, ocean	-	-	-	-	-	-
Wind	-	-	-	-	-	-
Combustible fuels	4.9	5.0	5.8	6.1	6.1	5.9
<i>Coal</i>	3.9	4.6	5.3	5.3	5.3	5.1
<i>Oil</i>	1.0	0.1	0.0	0.0	0.0	0.0
<i>Natural gas</i>	0.0	0.3	0.3	0.5	0.5	0.5
<i>Biofuels & waste</i>	-	0.1	0.1	0.2	0.3	0.3
Other (e.g. fuel cells)	-	-	-	-	-	-
- Own use by power plant	1.3	0.8	1.0	1.0	1.1	..
Net production	11.2	12.8	14.1	15.4	15.0	..
Nuclear	4.4	4.5	5.6	5.4	5.9	..
Hydro	2.9	3.8	3.4	4.6	3.6	..
Geothermal	-	-	-	-	-	..
Solar	-	-	-	0.0	0.1	..
Tide, wave, ocean	-	-	-	-	-	..
Wind	-	-	-	-	-	..
Combustible fuels	3.9	4.5	5.1	5.4	5.4	..
Other (e.g. fuel cells)	-	-	-	-	-	..
- Used for heat pumps	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-
- Used for pumped storage	-	-	-	0.2	0.2	0.3
+ Imports	1.7	4.2	9.3	8.6	7.0	7.5
- Exports	2.7	5.6	9.7	10.7	8.3	8.4
Electrical energy supplied	10.2	11.5	13.8	13.1	13.5	..
- Transmission & distr. losses	0.8	0.8	1.0	1.0	0.8	..
- Statistical difference	-	-	-	-	-	..
Total consumption	9.4	10.7	12.9	12.1	12.7	..
- Energy industry consumption ⁽²⁾	0.2	0.1	0.1	0.1	0.1	..
Final consumption	9.2	10.5	12.7	12.0	12.6	..
Industry	6.0	5.5	7.2	5.5	5.9	..
Transport	0.2	0.3	0.2	0.2	0.2	..
Commercial & publ. serv.	0.8	2.1	2.4	3.1	3.4	..
Residential	2.2	2.6	3.0	3.2	3.2	..
Agriculture & fishing	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	..

Source: IEA/OECD Electricity Statistics.

(1) Electricity generation from main activity producer power plants and autoproducers.

(2) Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes; excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Note: Please refer to definitions in the introductory information.

SLOVENIA

4. Electricity production and generation by source
(TWh)

	1974	1980	1990	2000	2009	2010	2011	Average annual percent change	
								74-90	90-11
Total gross production	12.44	13.62	16.40	16.43	16.06	..	1.2
- <i>Hydro pumped storage</i>	-	-	-	0.19	0.14	..	-
Total generation⁽¹⁾	12.44	13.62	16.40	16.25	15.91	..	1.2
<u>Main activity producers</u>									
Gross production	11.35	12.99	15.94	15.97	15.62	..	1.5
- <i>Hydro pumped storage</i>	-	-	-	0.19	0.14	..	-
Total generation ⁽¹⁾	11.35	12.99	15.94	15.78	15.48	..	1.5
Nuclear	4.62	4.76	5.74	5.66	6.22	..	1.4
Hydro	2.86	3.65	4.55	4.35	3.44	..	0.9
Geothermal	-	-	-	-	-	..	-
Solar, wind, tide ⁽²⁾	-	-	0.00	0.00	0.00	..	-
Coal	3.82	4.57	5.09	5.24	5.26	..	1.5
Oil	0.05	0.00	0.02	0.01	0.02	..	-5.8
Natural gas	-	0.00	0.45	0.42	0.40	..	-
Biofuels & waste	-	-	0.09	0.11	0.16	..	-
<u>Autoproducers</u>									
Gross production	1.10	0.64	0.47	0.46	0.43	..	-4.3
- <i>Hydro pumped storage</i>	-	-	-	-	-	..	-
Total generation ⁽¹⁾	1.10	0.64	0.47	0.46	0.43	..	-4.3
Nuclear	-	-	-	-	-	..	-
Hydro	0.09	0.19	0.16	0.16	0.12	..	1.2
Geothermal	-	-	-	-	-	..	-
Solar, wind, tide ⁽²⁾	-	-	0.00	0.01	0.06	..	-
Coal	0.08	0.04	0.04	0.05	0.05	..	-1.9
Oil	0.93	0.05	0.01	-	0.00	..	-27.8
Natural gas	0.00	0.29	0.15	0.13	0.09	..	20.0
Biofuels & waste	-	0.07	0.10	0.11	0.11	..	-

Source: IEA/OECD *Energy Balances* and IEA/OECD *Energy Statistics of OECD Countries*.

(1) Electricity generated = gross production - amount of electricity produced in pumped storage plants.

(2) Includes wave, ocean and other sources (e.g. fuel cells, from chemical heat).

Note: Please refer to definitions in the introductory information.

SLOVENIA

9. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)

	1980	1990	2000	2009	2010	2011	Average annual percent change 1990-2011
Hard coal and patent fuel							
Fuel input (1000 t)	..	-	-	2	4	2	-
Fuel input (TJ)	..	-	-	57	109	67	-
Electricity production (GWh)	..	-	-	1	1	1	-
CHP Heat production (TJ)	..	-	-	42	63	34	-
Brown coal							
Fuel input (1000 t)	..	4681	4221	4237	4395	4328	-0.4
Fuel input (TJ)	..	38530	45346	49047	51857	50897	1.3
Electricity production (GWh)	..	3538	3965	4423	4714	4562	1.2
CHP Heat production (TJ)	..	5147	5481	5491	5964	5572	0.4
Peat							
Fuel input (1000 t)	..	-	-	-	-	-	-
Fuel input (TJ)	..	-	-	-	-	-	-
Electricity production (GWh)	..	-	-	-	-	-	-
CHP Heat production (TJ)	..	-	-	-	-	-	-
Coal manufactured gases⁽¹⁾							
Fuel input (TJ)	..	-	-	-	-	-	-
Electricity production (GWh)	..	-	-	-	-	-	-
CHP Heat production (TJ)	..	-	-	-	-	-	-
Petroleum products							
Fuel input (1000 t)	..	152	11	3	2	2	-18.6
Fuel input (TJ)	..	6116	443	136	52	63	-19.6
Electricity production (GWh)	..	929	52	16	4	6	-21.3
CHP Heat production (TJ)	..	164	24	30	11	3	-17.3
Natural gas⁽¹⁾							
Fuel input (TJ)	..	937	2689	5754	5147	4695	8.0
Electricity production (GWh)	..	2	290	589	544	483	29.9
CHP Heat production (TJ)	..	685	931	941	892	939	1.5
Wood and other solid waste							
Fuel input (TJ)	..	-	521	1546	1524	1566	-
Electricity production (GWh)	..	-	58	113	120	126	-
CHP Heat production (TJ)	..	-	-	492	538	554	-
Industrial waste							
Fuel input (TJ)	..	-	-	24	21	263	-
Electricity production (GWh)	..	-	-	4	5	8	-
CHP Heat production (TJ)	..	-	-	-	-	80	-
Municipal waste							
Fuel input (TJ)	..	-	-	-	-	-	-
Electricity production (GWh)	..	-	-	-	-	-	-
CHP Heat production (TJ)	..	-	-	-	-	-	-
Biogases and liquid biofuels							
Fuel input (TJ)	..	-	124	729	1059	1315	-
Electricity production (GWh)	..	-	12	59	90	122	-
CHP Heat production (TJ)	..	-	-	107	194	229	-
Total combustible fuels⁽²⁾							
Electricity production (GWh)	..	4469	4377	5205	5478	5308	0.8
CHP Heat production (TJ)	..	5996	6436	7103	7662	7411	1.0

Source: IEA/OECD Electricity Statistics.

(1) Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

(2) Includes non-specified combustible fuels not shown in this table.

Note: Please refer to notes in the introductory information for data coverage.

SPAIN

3. Summary electricity production and consumption ⁽¹⁾

(TWh)

	1973	1980	1990	2000	2005	2010	2011	2012e
Gross production	76.3	110.5	151.9	224.5	294.1	301.5	291.4	297.1
Nuclear	6.5	5.2	54.3	62.2	57.5	62.0	57.7	61.4
Hydro	29.5	30.8	26.2	31.8 e	23.0 e	45.5	32.9	24.1
<i>of which:</i>								
<i>pumped storage production</i>	<i>0.6</i>	<i>1.3</i>	<i>0.7</i>	<i>3.6</i>	<i>4.6</i>	<i>3.2</i>	<i>2.3</i>	<i>3.6</i>
Geothermal	-	-	-	-	-	-	-	-
Solar	-	-	0.0	0.0	0.0 e	7.2	8.7	11.9
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	0.0	4.7	21.2 e	44.3	42.4	49.1
Combustible fuels	40.2	74.5	71.4	125.7 e	187.3 e	142.4	149.4	150.4
<i>Coal</i>	<i>14.3</i>	<i>32.8</i>	<i>60.7</i>	<i>80.9</i>	<i>80.8</i>	<i>26.3</i>	<i>44.9</i>	<i>55.9</i>
<i>Oil</i>	<i>25.1</i>	<i>38.4</i>	<i>8.6</i>	<i>22.6</i>	<i>24.4</i>	<i>16.6</i>	<i>14.8</i>	<i>15.7</i>
<i>Natural gas</i>	<i>0.8</i>	<i>2.9</i>	<i>1.5</i>	<i>20.2</i>	<i>79.0</i>	<i>94.9</i>	<i>84.5</i>	<i>73.2</i>
<i>Biofuels & waste</i>	<i>0.1</i>	<i>0.4</i>	<i>0.7</i>	<i>2.1</i>	<i>3.1 e</i>	<i>4.7</i>	<i>5.2</i>	<i>5.6</i>
Other (e.g. fuel cells)	-	-	-	-	5.0	0.2	0.2	0.2
- Own use by power plant	3.3	5.3	7.3	10.0	11.9	10.6	10.1	..
Net production	72.9	105.2	144.6	214.4	282.1	291.0	281.3	..
Nuclear	..	4.9	51.9	59.8	55.4	59.4	55.3	..
Hydro	..	30.4	25.8	31.5 e	22.7	44.7	32.3	..
Geothermal	..	-	-	-	-	-	-	..
Solar	..	-	0.0	0.0	0.0 e	7.1	8.6	..
Tide, wave, ocean	..	-	-	-	-	-	-	..
Wind	..	-	0.0	4.7	21.1	43.2	41.4	..
Combustible fuels	..	69.9	66.9	118.4 e	178.4	136.4	143.5	..
Other (e.g. fuel cells)	..	-	-	-	4.5	0.1	0.2	..
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	1.5	1.9	1.0	4.9	6.4	4.5	3.2	5.0
+ Imports	0.3	2.3	3.2	12.3	10.2	5.2	7.9	7.8
- Exports	2.3	3.7	3.6	7.8	11.6	13.5	14.0	19.0
Electrical energy supplied	69.4	102.0	143.2	214.0	274.4	278.2	272.0	..
- Transmission & distr. losses	8.7	10.0	14.0	19.3	26.0	27.4	26.8	..
- Statistical difference	-	-	-	-	-	0.6	0.0	..
Total consumption	60.7	92.0	129.2	194.7	248.5 e	250.2	245.2	..
- Energy industry consumption ⁽²⁾	1.7	2.2	3.4	6.3	6.2 e	5.4	5.3	..
Final consumption	59.0	89.8	125.8	188.5	242.2 e	244.8	239.9	..
Industry	37.9	53.9	63.3	85.6	105.0 e	73.5	72.0	..
Transport	1.5	1.9	3.7	4.2	5.4 e	3.2	3.2	..
Commercial & publ. serv.	7.5	12.2	25.1	50.0	63.8 e	83.9	82.2	..
Residential	10.9	19.6	30.2	43.6	62.6 e	75.7	74.2	..
Agriculture & fishing	1.3	2.1	3.5	5.0	5.3 e	4.1	4.1	..
Sector non specified	-	-	-	-	0.1 e	4.4	4.3	..

Source: IEA/OECD Electricity Statistics.

(1) Electricity generation from main activity producer power plants and autoproducers.

(2) Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes; excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Note: Please refer to definitions in the introductory information.

SPAIN

4. Electricity production and generation by source
(TWh)

	1974	1980	1990	2000	2009	2010	2011	Average annual percent change	
								74-90	90-11
Total gross production	80.86	110.48	151.92	224.47	294.62	301.53	291.36	4.0	3.1
- <i>Hydro pumped storage</i>	<i>0.78</i>	<i>1.26</i>	<i>0.71</i>	<i>3.55</i>	<i>2.75</i>	<i>3.21</i>	<i>2.32</i>	<i>-0.5</i>	<i>5.8</i>
Total generation⁽¹⁾	80.08	109.23	151.21	220.92	291.87	298.32	289.05	4.1	3.1
<u>Main activity producers</u>									
Gross production	77.36	107.16	147.45	196.02	256.50	262.76	250.83	4.1	2.6
- <i>Hydro pumped storage</i>	<i>0.78</i>	<i>1.26</i>	<i>0.71</i>	<i>3.55</i>	<i>2.75</i>	<i>3.21</i>	<i>2.32</i>	<i>-0.5</i>	<i>5.8</i>
Total generation ⁽¹⁾	76.58	105.90	146.74	192.47	253.74	259.55	248.51	4.1	2.5
Nuclear	7.22	5.19	54.27	62.21	52.76	61.99	57.73	13.4	0.3
Hydro	29.16	28.15	24.15	27.43	25.80	41.46	29.74	-1.2	1.0
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide ⁽²⁾	-	-	0.02	4.73	44.14	51.42	51.08	-	45.3
Coal	12.19	32.59	59.99 e	79.57	36.20	25.53	44.23	10.5	-1.4
Oil	27.58	37.10	7.51	13.98	14.54	13.10	12.24	-7.8	2.4
Natural gas	0.43	2.87	0.75	3.62	79.69	65.37	52.71	3.6	22.4
Biofuels & waste	-	0.01	0.05	0.94	0.60	0.69	0.79	-	14.0
<u>Autoproducers</u>									
Gross production	3.49	3.32	4.47	28.45	38.13	38.77	40.53	1.6	11.1
- <i>Hydro pumped storage</i>	-	-	-	-	-	-	-	-	-
Total generation ⁽¹⁾	3.49	3.32	4.47	28.45	38.13	38.77	40.53	1.6	11.1
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	1.41	1.40	1.32	0.83	0.61	0.85	0.86	-0.4	-2.0
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide ⁽²⁾	-	-	-	0.02	0.38	0.20	0.21	-	-
Coal	0.75	0.19	0.68	1.29	0.74	0.79	0.69	-0.6	0.1
Oil	1.27	1.34	1.09	8.60	4.70	3.46	2.53	-0.9	4.1
Natural gas	0.02	0.05	0.76	16.56	28.05	29.49	31.81	26.8	19.5
Biofuels & waste	0.05	0.35	0.62	1.16 e	3.65	3.99	4.43	16.9	9.8

Source: IEA/OECD *Energy Balances* and IEA/OECD *Energy Statistics of OECD Countries*.

(1) Electricity generated = gross production - amount of electricity produced in pumped storage plants.

(2) Includes wave, ocean and other sources (e.g. fuel cells, from chemical heat).

Note: Please refer to definitions in the introductory information.

SPAIN

**9. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1980	1990	2000	2009	2010	2011	Average annual percent change 1990-2011
Hard coal and patent fuel							
Fuel input (1000 t)	62	83	127	55	73	74	-0.5
Fuel input (TJ)	1210	2175	2771	1375	1808	1675	-1.2
Electricity production (GWh)	137	381	457	237	253	232	-2.3
CHP Heat production (TJ)	-	-	-	-	-	-	-
Brown coal							
Fuel input (1000 t)	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Peat							
Fuel input (1000 t)	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Coal manufactured gases⁽¹⁾							
Fuel input (TJ)	548	3152	598	815	1081	1316	-4.1
Electricity production (GWh)	47	294	60	125	148	183	-2.2
CHP Heat production (TJ)	-	-	-	-	-	-	-
Petroleum products							
Fuel input (1000 t)	-	709 e	1069 e	663	546	379	-2.9
Fuel input (TJ)	-	28612 e	43249 e	27006	22006	15200	-3.0
Electricity production (GWh)	-	2408 e	8431 e	4700	3460	2530	0.2
CHP Heat production (TJ)	-	181 e	-	-	-	-	-
Natural gas⁽¹⁾							
Fuel input (TJ)	-	4476	90833	148704	151076	150716	18.2
Electricity production (GWh)	-	735	16518	24853	23876	25369	18.4
CHP Heat production (TJ)	-	-	-	-	-	-	-
Wood and other solid waste							
Fuel input (TJ)	-	2165	9260	16859	12553	14887	9.6
Electricity production (GWh)	-	445	665	1566	1166	1365	5.5
CHP Heat production (TJ)	-	-	-	-	-	-	-
Industrial waste							
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Municipal waste							
Fuel input (TJ)	-	3325	..	-	-	-	-
Electricity production (GWh)	-	160	..	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Biogases and liquid biofuels							
Fuel input (TJ)	-	-	98	367	1193	1299	-
Electricity production (GWh)	-	-	14	51	152	166	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Total combustible fuels⁽²⁾							
Electricity production (GWh)	184	4423	26145 e	31532	29055	29845	9.5
CHP Heat production (TJ)	-	181	-	-	-	-	-

Source: IEA/OECD Electricity Statistics.

(1) Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

(2) Includes non-specified combustible fuels not shown in this table.

Note: Please refer to notes in the introductory information for data coverage.

SWEDEN

3. Summary electricity production and consumption ⁽¹⁾

	(TWh)							
	1973	1980	1990	2000	2005	2010	2011	2012e
Gross production	78.1	96.7	146.5	145.3	158.4	148.6	150.4	165.5
Nuclear	2.1	26.5	68.2	57.3	72.4	57.8	60.5	63.5
Hydro	59.9	59.2	73.0	78.6	72.9	66.5	66.6	78.6
<i>of which:</i>								
<i>pumped storage production</i>	<i>0.0</i>	<i>0.4</i>	<i>0.5</i>	<i>0.0</i>	<i>0.1</i>	<i>0.1</i>	<i>0.1</i>	<i>0.0</i>
Geothermal	-	-	-	-	-	-	-	-
Solar	-	-	-	0.0	0.0	0.0	0.0	0.0
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	0.0	0.5	0.9	3.5	6.1	7.2
Combustible fuels	16.1	11.0	5.3	8.9	12.2	20.7	17.3	16.1
<i>Coal</i>	<i>0.5</i>	<i>0.2</i>	<i>1.6</i>	<i>2.5</i>	<i>1.9</i>	<i>2.7</i>	<i>2.0</i>	<i>2.1</i>
<i>Oil</i>	<i>15.2</i>	<i>10.0</i>	<i>1.3</i>	<i>1.5</i>	<i>1.4</i>	<i>1.8</i>	<i>0.8</i>	<i>1.0</i>
<i>Natural gas</i>	<i>-</i>	<i>-</i>	<i>0.4</i>	<i>0.5</i>	<i>0.6</i>	<i>2.9</i>	<i>1.5</i>	<i>1.6</i>
<i>Biofuels & waste</i>	<i>0.4</i>	<i>0.8</i>	<i>2.0 e</i>	<i>4.3</i>	<i>8.4</i>	<i>13.4</i>	<i>12.9</i>	<i>11.4</i>
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
- Own use by power plant	1.7	2.3	4.0	3.7	3.8	3.3	3.4	..
Net production	76.4	94.4	142.5	141.6	154.6	145.3	146.9	..
Nuclear	..	25.3	65.2	54.8	69.5	55.6	58.0	..
Hydro	..	58.5	72.3	77.9	72.3	66.4	66.2	..
Geothermal	..	-	-	-	-	-	-	..
Solar	..	-	-	0.0	0.0	0.0	0.0	..
Tide, wave, ocean	..	-	-	-	-	-	-	..
Wind	..	-	0.0	0.5	0.9	3.5	6.1	..
Combustible fuels	..	10.5	5.0	8.5	11.9	19.8	16.7	..
Other (e.g. fuel cells)	..	-	-	-	-	-	-	..
- Used for heat pumps	-	-	-	2.2	1.9	1.5	1.2	1.6
- Used for electric boilers	-	-	-	2.1	0.3	0.1	0.1	0.2
- Used for pumped storage	0.0	0.5	0.8	0.0	0.1	0.1	0.2	0.0
+ Imports	6.0	3.4	12.9	18.3	14.6	14.9	12.5	11.7
- Exports	5.2	2.8	14.7	13.6	22.0	12.9	19.7	31.3
Electrical energy supplied	77.1	94.4	140.0	142.0	144.9	145.6	138.2	..
- Transmission & distr. losses	7.7	8.3	9.2	10.8	11.7	10.6	10.6	..
- Statistical difference	-	-	0.0	-	-	-	-	..
Total consumption	69.4	86.1	130.7	131.1	133.2	135.0	127.6	..
- Energy industry consumption ⁽²⁾	0.2	1.2	10.4	2.4	2.5	3.8	3.0	..
Final consumption	69.2	84.9	120.3	128.7	130.7	131.2	124.6	..
Industry	39.5	40.6	54.0	56.9	57.6	54.4	53.8	..
Transport	2.1	2.3	2.5	3.2	2.8	2.4	2.6	..
Commercial & publ. serv.	11.1	15.2	24.4	25.4	26.1	32.7	30.6	..
Residential	15.7	25.7	38.1	42.0	42.7	40.4	36.4	..
Agriculture & fishing	0.7	1.1	1.5	1.2	1.5	1.3	1.2	..
Sector non specified	-	-	-	-	-	-	-	..

Source: IEA/OECD Electricity Statistics.

(1) Electricity generation from main activity producer power plants and autoproducers.

(2) Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes; excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Note: Please refer to definitions in the introductory information.

SWEDEN

4. Electricity production and generation by source
(TWh)

	1974	1980	1990	2000	2009	2010	2011	Average annual percent change	
								74-90	90-11
Total gross production	75.13	96.70	146.51	145.27	136.73	148.56	150.38	4.3	0.1
- <i>Hydro pumped storage</i>	<i>0.02</i>	<i>0.38</i>	<i>0.53</i>	<i>0.04</i>	<i>0.13</i>	<i>0.10</i>	<i>0.12</i>	22.7	-6.8
Total generation⁽¹⁾	75.11	96.32	145.98	145.23	136.60	148.46	150.25	4.2	0.1
<u>Main activity producers</u>									
Gross production	75.13	85.31	139.32	141.05	131.14	141.96	144.36	3.9	0.2
- <i>Hydro pumped storage</i>	<i>0.02</i>	<i>0.38</i>	<i>0.53</i>	<i>0.04</i>	<i>0.13</i>	<i>0.10</i>	<i>0.12</i>	22.7	-6.8
Total generation ⁽¹⁾	75.11	84.94	138.79	141.02	131.02	141.85	144.24	3.9	0.2
Nuclear	2.05	26.49	68.19	57.32	52.17	57.83	60.48	24.5	-0.6
Hydro	57.27	51.65	68.05	78.36	65.84	66.38	66.42	1.1	-0.1
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide ⁽²⁾	-	-	0.01	0.46	2.49	3.51	6.09	-	39.0
Coal	0.45	0.17	1.51	2.27	1.52	2.16	1.73	7.9	0.6
Oil	14.99	6.40	0.52	0.76	0.40	1.26	0.44	-18.9	-0.8
Natural gas	-	-	0.31	0.40	1.50	2.78	1.44	-	7.7
Biofuels & waste	0.36	0.22	0.21	1.46	7.10	7.93	7.65	-3.3	18.7
<u>Autoproducers</u>									
Gross production	-	11.38	7.20	4.21	5.59	6.61	6.02	-	-0.9
- <i>Hydro pumped storage</i>	-	-	-	-	-	-	-	-	-
Total generation ⁽¹⁾	-	11.38	7.20	4.21	5.59	6.61	6.02	-	-0.9
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	-	7.22	4.45	0.23	0.02	0.01	0.02	-	-23.7
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide ⁽²⁾	-	-	-	-	-	-	-	-	-
Coal	-	0.01	0.08	0.27	0.08	0.52	0.26	-	5.8
Oil	-	3.59	0.78	0.77	0.33	0.51	0.35	-	-3.7
Natural gas	-	-	0.09	0.07	0.05	0.10	0.11	-	1.0
Biofuels & waste	-	0.56	1.80	2.88	5.11	5.47	5.28	-	5.3

Source: IEA/OECD *Energy Balances* and IEA/OECD *Energy Statistics of OECD Countries*.

(1) Electricity generated = gross production - amount of electricity produced in pumped storage plants.

(2) Includes wave, ocean and other sources (e.g. fuel cells, from chemical heat).

Note: Please refer to definitions in the introductory information.

SWEDEN

**9. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1980	1990	2000	2009	2010	2011	Average annual percent change 1990-2011
Hard coal and patent fuel							
Fuel input (1000 t)	85	829	501	343	438	365	-3.8
Fuel input (TJ)	2318	22562	13955	9169	12920	9656	-4.0
Electricity production (GWh)	158	1081	1636	515	1022	657	-2.3
CHP Heat production (TJ)	1276 e	15376	5329	5490	7442	6107	-4.3
Brown coal							
Fuel input (1000 t)	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Peat							
Fuel input (1000 t)	-	185	429	964	988	879	7.7
Fuel input (TJ)	-	2405	4667	12501	11155	8775	6.4
Electricity production (GWh)	-	56	70	710	748	598	11.9
CHP Heat production (TJ)	-	1922	3842	7452	6454	5515	5.1
Coal manufactured gases⁽¹⁾							
Fuel input (TJ)	24	4734	7153	6106	9697	8418	2.8
Electricity production (GWh)	2	405	620	375	905	734	2.9
CHP Heat production (TJ)	6 e	2054	2600	3232	4277	4437	3.7
Petroleum products							
Fuel input (1000 t)	2577	271	264	194	373	186	-1.8
Fuel input (TJ)	106678	11646	11076	5869	15979	7866	-1.9
Electricity production (GWh)	9266	1269	1469	569	1520	756	-2.4
CHP Heat production (TJ)	54584 e	5264	3878	2551	8077	3766	-1.6
Natural gas⁽¹⁾							
Fuel input (TJ)	-	6066	9990	24910	32541	21808	6.3
Electricity production (GWh)	-	395	462	1548	2877	1549	6.7
CHP Heat production (TJ)	-	3645	6238	15938	17840	13377	6.4
Wood and other solid waste							
Fuel input (TJ)	4784	12330	70998	115429	140000	103349	10.7
Electricity production (GWh)	663 e	1902	3970	10103	10260	9641	8.0
CHP Heat production (TJ)	975 e	3845	45738	55590	74500	53895	13.4
Industrial waste							
Fuel input (TJ)	-	-	1039	846	868	1583	-
Electricity production (GWh)	-	-	101	50	61	151	-
CHP Heat production (TJ)	-	-	489	520	527	764	-
Municipal waste							
Fuel input (TJ)	2000	5560	14368	35988	43800	45724	10.6
Electricity production (GWh)	116 e	103	239	1747	2860	3100	17.6
CHP Heat production (TJ)	1115 e	4673	10971	23681	26341	28830	9.1
Biogases and liquid biofuels							
Fuel input (TJ)	-	-	823	5445	3382	515	-
Electricity production (GWh)	-	-	32	309	216	35	-
CHP Heat production (TJ)	-	-	589	3262	1633	319	-
Total combustible fuels⁽²⁾							
Electricity production (GWh)	10205	5211	8599	15926	20469	17221	5.9
CHP Heat production (TJ)	57956	36779	79674	117716	147091	117010	5.7

Source: IEA/OECD Electricity Statistics.

(1) Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

(2) Includes non-specified combustible fuels not shown in this table.

Note: Please refer to notes in the introductory information for data coverage.

SWITZERLAND

3. Summary electricity production and consumption ⁽¹⁾

(TWh)

	1973	1980	1990	2000	2005	2010	2011	2012e
Gross production	38.0	49.2	56.2	67.5	59.6	67.8	64.6	69.7
Nuclear	6.3	14.3	23.6	26.4	23.3	26.3	26.7	25.4
Hydro	29.1	33.9	31.0	38.2	33.1	37.8	34.1	40.3
<i>of which:</i>								
<i>pumped storage production</i>	<i>1.2</i>	<i>1.1</i>	<i>1.2</i>	<i>1.4</i>	<i>1.9</i>	<i>1.8</i>	<i>1.7</i>	<i>1.7</i>
Geothermal	-	-	-	-	-	-	-	-
Solar	-	-	0.0	0.0	0.0	0.1	0.1	0.1
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	0.0	0.0	0.0	0.1	0.1
Combustible fuels	2.6 e	1.0	1.6	2.8	3.2	3.5	3.6	3.7
<i>Coal</i>	<i>-</i>	<i>0.1</i>	<i>0.0</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
<i>Oil</i>	<i>2.6</i>	<i>0.5</i>	<i>0.4</i>	<i>0.2</i>	<i>0.2</i>	<i>0.1</i>	<i>0.1</i>	<i>0.1</i>
<i>Natural gas</i>	<i>-</i>	<i>0.3</i>	<i>0.3</i>	<i>0.9</i>	<i>0.9</i>	<i>1.0</i>	<i>1.0</i>	<i>1.0</i>
<i>Biofuels & waste</i>	<i>-</i>	<i>0.2</i>	<i>0.8</i>	<i>1.7</i>	<i>2.1</i>	<i>2.4</i>	<i>2.5</i>	<i>2.6</i>
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
- Own use by power plant	0.9	1.1	1.7	2.0	1.8	1.7	1.7	..
Net production	37.2	48.2	54.5	65.5	57.8	66.1	63.0	..
Nuclear	..	13.7	22.3	24.9	22.0	25.2	25.6	..
Hydro	..	33.5	30.7	37.9	32.8	37.5	33.8	..
Geothermal	..	-	-	-	-	-	-	..
Solar	..	-	0.0	0.0	0.0	0.1	0.1	..
Tide, wave, ocean	..	-	-	-	-	-	-	..
Wind	..	-	-	0.0	0.0	0.0	0.1	..
Combustible fuels	..	1.0	1.5	2.7	3.0	3.4	3.4	..
Other (e.g. fuel cells)	..	-	-	-	-	-	-	..
- Used for heat pumps	-	-	-	0.0	0.0	0.0	0.0	0.0
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	1.7	1.5	1.7	2.0	2.6	2.5	2.5	2.4
+ Imports	7.0	8.5	20.8	24.3	38.3	33.4	34.8	31.5
- Exports	10.5	16.7	22.9	31.4	32.0	32.9	32.2	33.7
Electrical energy supplied	31.9	38.5	50.7	56.5	61.6	64.2	63.1	..
- Transmission & distr. losses	2.9	3.2	4.1	4.1	4.2	4.4	4.5	..
- Statistical difference	-	-	-	-	-	0.0	-	..
Total consumption	29.0	35.3	46.6	52.4	57.3	59.8	58.6	..
- Energy industry consumption ⁽²⁾	-	-	-	-	-	-	-	..
Final consumption	29.0	35.3	46.6	52.4	57.3	59.8	58.6	..
Industry	11.1	11.9	17.2	18.1	18.9	19.3	19.2	..
Transport	2.0	2.1	2.6	2.6	3.0	3.2	3.1	..
Commercial & publ. serv.	8.3	10.8	12.7	14.9	16.8	17.7	17.4	..
Residential	7.3	10.1	13.2	15.7	17.6	18.6	17.9	..
Agriculture & fishing	0.3	0.4	0.9	1.0	1.0	1.0	1.0	..
Sector non specified	-	-	-	-	-	-	-	..

Source: IEA/OECD Electricity Statistics.

(1) Electricity generation from main activity producer power plants and autoproducers.

(2) Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes; excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Note: Please refer to definitions in the introductory information.

SWITZERLAND

4. Electricity production and generation by source
(TWh)

	1974	1980	1990	2000	2009	2010	2011	Average annual percent change	
								74-90	90-11
Total gross production	38.18	49.25	56.18	67.52	68.46	67.82	64.64	2.4	0.7
- <i>Hydro pumped storage</i>	<i>1.08</i>	<i>1.07</i>	<i>1.19</i>	<i>1.40</i>	<i>1.78</i>	<i>1.76</i>	<i>1.74</i>	<i>0.6</i>	<i>1.8</i>
Total generation⁽¹⁾	37.10	48.18	54.99	66.12	66.67	66.06	62.90	2.5	0.6
<u>Main activity producers</u>									
Gross production	34.55	44.86	51.33	61.80	62.56	61.61	58.64	2.5	0.6
- <i>Hydro pumped storage</i>	<i>1.08</i>	<i>1.07</i>	<i>1.15</i>	<i>1.37</i>	<i>1.78</i>	<i>1.76</i>	<i>1.73</i>	<i>0.4</i>	<i>2.0</i>
Total generation ⁽¹⁾	33.47	43.79	50.19	60.43	60.77	59.86	56.91	2.6	0.6
Nuclear	7.07	14.35	23.64	26.45	27.69	26.34	26.71	7.8	0.6
Hydro	24.25	28.87	26.23	33.88	32.83	33.27	29.92	0.5	0.6
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide ⁽²⁾	-	-	-	0.00	0.02	0.04	0.07	-	-
Coal	-	0.03	0.01	-	-	-	-	-	-
Oil	2.15	0.25	0.26	0.00	0.00	0.00	0.00	-12.5	-20.6
Natural gas	-	0.12	0.06	0.10	0.11	0.13	0.08	-	1.6
Biofuels & waste	-	0.17	-	0.00	0.12	0.08	0.13	-	-
<u>Autoproducers</u>									
Gross production	3.63	4.39	4.85	5.72	5.90	6.21	6.00	1.8	1.0
- <i>Hydro pumped storage</i>	-	-	<i>0.04</i>	<i>0.03</i>	-	<i>0.01</i>	<i>0.01</i>	-	-6.5
Total generation ⁽¹⁾	3.63	4.39	4.81	5.70	5.90	6.20	5.99	1.8	1.1
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	3.52	3.94	3.57	2.96	2.89	2.79	2.47	0.1	-1.7
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide ⁽²⁾	-	-	0.00	0.01	0.05	0.08	0.15	-	26.9
Coal	-	0.03	0.03	-	-	-	-	-	-
Oil	0.11	0.24	0.13	0.22	0.10	0.07	0.06	0.9	-4.0
Natural gas	-	0.17	0.28	0.76	0.60	0.92	0.92	-	5.9
Biofuels & waste	-	-	0.80	1.75	2.26	2.34	2.40	-	5.3

Source: IEA/OECD *Energy Balances* and IEA/OECD *Energy Statistics of OECD Countries*.

(1) Electricity generated = gross production - amount of electricity produced in pumped storage plants.

(2) Includes wave, ocean and other sources (e.g. fuel cells, from chemical heat).

Note: Please refer to definitions in the introductory information.

SWITZERLAND

9. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)

	1980	1990	2000	2009	2010	2011	Average annual percent change 1990-2011
Hard coal and patent fuel							
Fuel input (1000 t)	23	21	-	-	-	-	-
Fuel input (TJ)	197	507	-	-	-	-	-
Electricity production (GWh)	65	40	-	-	-	-	-
CHP Heat production (TJ)	-	198	-	-	-	-	-
Brown coal							
Fuel input (1000 t)	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Peat							
Fuel input (1000 t)	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Coal manufactured gases⁽¹⁾							
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Petroleum products							
Fuel input (1000 t)	150	53	28	11	9	8	-8.6
Fuel input (TJ)	6281	2203	1179	468	369	343	-8.5
Electricity production (GWh)	492	145	212	86	56	48	-5.1
CHP Heat production (TJ)	-	1293	197	73	88	71	-12.9
Natural gas⁽¹⁾							
Fuel input (TJ)	4840	3572	6035	4799	6626	6301	2.7
Electricity production (GWh)	294	331	857	712	1043	993	5.4
CHP Heat production (TJ)	-	1458	1565	895	1107	892	-2.3
Wood and other solid waste							
Fuel input (TJ)	-	186	348	4018	3782	4691	16.6
Electricity production (GWh)	-	40	59	165	151	206	8.1
CHP Heat production (TJ)	-	7	64	1071	1393	1377	28.6
Industrial waste							
Fuel input (TJ)	-	253	1466	1465	1298	1109	7.3
Electricity production (GWh)	-	44	268	264	227	185	7.1
CHP Heat production (TJ)	-	42	326	390	369	355	10.7
Municipal waste							
Fuel input (TJ)	6406	17036	24096	35090	36802	38098	3.9
Electricity production (GWh)	173	434	952	1624	1722	1786	7.0
CHP Heat production (TJ)	-	5264	7018	9854	11086	10866	3.5
Biogases and liquid biofuels							
Fuel input (TJ)	-	302	535	1136	1279	1417	7.6
Electricity production (GWh)	-	60	105	185	206	226	6.5
CHP Heat production (TJ)	-	-	-	-	-	-	-
Total combustible fuels⁽²⁾							
Electricity production (GWh)	1024	1094	2453	3036	3405	3444	5.6
CHP Heat production (TJ)	8809	8262	9170	12283	14043	13561	2.4

Source: IEA/OECD Electricity Statistics.

(1) Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

(2) Includes non-specified combustible fuels not shown in this table.

Note: Please refer to notes in the introductory information for data coverage.

TURKEY

3. Summary electricity production and consumption ⁽¹⁾

	(TWh)							
	1973	1980	1990	2000	2005	2010	2011	2012e
Gross production	12.4	23.3	57.5	124.9	162.0	211.2	229.4	239.5
Nuclear	-	-	-	-	-	-	-	-
Hydro	2.6	11.3	23.1	30.9	39.6	51.8	52.3	57.9
<i>of which:</i>								
<i>pumped storage production</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	0.1	0.1	0.1	0.7	0.7	0.9
Solar	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	0.0	0.1	2.9	4.7	5.9
Combustible fuels	9.8	11.9	34.3	93.9	122.2	155.8	171.6	174.9
<i>Coal</i>	3.2	6.0	20.2	38.2	43.2	55.0	66.2	68.0
<i>Oil</i>	6.4	5.8	3.9	9.3	5.5	2.2	0.9	1.6
<i>Natural gas</i>	-	-	10.2	46.2	73.4	98.1	104.0	104.5
<i>Biofuels & waste</i>	0.2	0.1	-	0.2	0.1	0.5	0.5	0.7
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
- Own use by power plant	0.6	1.4	3.3	6.2	6.5	8.2	11.8	..
Net production	11.8	21.9	54.2	118.7	155.5	203.0	217.6	..
Nuclear	..	-	-	-	-	-	-	..
Hydro	..	11.2	22.7	30.2	39.3	51.4	51.2	..
Geothermal	..	-	0.1	0.1	0.1	0.6	0.6	..
Solar	..	-	-	-	-	-	-	..
Tide, wave, ocean	..	-	-	-	-	-	-	..
Wind	..	-	-	0.0	0.1	2.9	4.7	..
Combustible fuels	..	10.7	31.4	88.4	116.1	148.1	161.1	..
Other (e.g. fuel cells)	..	-	-	-	-	-	-	..
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	-	-	-	-	-	-	-	-
+ Imports	-	1.3	0.2	3.8	0.6	1.1	4.6	4.4
- Exports	-	-	0.9	0.4	1.8	1.9	3.6	1.5
Electrical energy supplied	11.8	23.2	53.5	122.1	154.3	202.3	218.5	..
- Transmission & distr. losses	1.3	2.8	6.7	23.8	24.0	30.2	32.4	..
- Statistical difference	-	-	-	-	-	-	0.0	..
Total consumption	10.5	20.4	46.8	98.3	130.3	172.1	186.1	..
- Energy industry consumption ⁽²⁾	0.6	0.9	1.9	2.4	1.6	2.2	2.3	..
Final consumption	9.9	19.5	45.0	95.9	128.6	169.9	183.8	..
Industry	6.4	12.2	27.3	46.1	60.7	77.2	85.7	..
Transport	0.1	0.1	0.3	0.8	0.8	0.6	0.7	..
Commercial & publ. serv.	1.8	3.5	7.4	22.1	32.2	45.1	48.0	..
Residential	1.4	3.5	9.1	23.9	30.9	41.4	44.3	..
Agriculture & fishing	0.1	0.2	0.6	3.1	4.1	5.6	5.1	..
Sector non specified	0.2	0.0	0.2	-	-	-	-	..

Source: IEA/OECD Electricity Statistics.

(1) Electricity generation from main activity producer power plants and autoproducers.

(2) Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes; excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Note: Please refer to definitions in the introductory information.

TURKEY

4. Electricity production and generation by source
(TWh)

	1974	1980	1990	2000	2009	2010	2011	Average annual percent change	
								74-90	90-11
Total gross production	13.48	23.28	57.54	124.92	194.81	211.21	229.39	9.5	6.8
- Hydro pumped storage	-	-	-	-	-	-	-	-	-
Total generation⁽¹⁾	13.48	23.28	57.54	124.92	194.81	211.21	229.39	9.5	6.8
Main activity producers									
Gross production	12.63	21.09	54.18	108.96	181.31	198.76	217.15	9.5	6.8
- Hydro pumped storage	-	-	-	-	-	-	-	-	-
Total generation ⁽¹⁾	12.63	21.09	54.18	108.96	181.31	198.76	217.15	9.5	6.8
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	3.33	11.29	23.14	30.82	34.37	50.57	51.10	12.9	3.8
Geothermal	-	-	0.08	0.08	0.44	0.67	0.69	-	10.8
Solar, wind, tide ⁽²⁾	-	-	-	0.03	1.49	2.91	4.72	-	-
Coal	3.68	5.11	19.81	36.17	52.53	51.59	62.93	11.1	5.7
Oil	5.63	4.69	0.97	5.75	3.18	1.36	0.31	-10.4	-5.3
Natural gas	-	-	10.19	36.13	89.11	91.37	97.08	-	11.3
Biofuels & waste	-	-	-	-	0.20	0.28	0.32	-	-
Autoproducers									
Gross production	0.85	2.19	3.36	15.96	13.50	12.45	12.24	9.0	6.3
- Hydro pumped storage	-	-	-	-	-	-	-	-	-
Total generation ⁽¹⁾	0.85	2.19	3.36	15.96	13.50	12.45	12.24	9.0	6.3
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	0.03	0.06	0.01	0.06	1.59	1.22	1.24	-6.4	25.8
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide ⁽²⁾	-	-	-	0.00	0.00	0.00	0.00	-	-
Coal	0.19	0.85	0.38	2.02	3.15	3.45	3.29	4.2	10.9
Oil	0.42	1.14	2.97	3.57	1.63	0.82	0.59	13.1	-7.4
Natural gas	-	-	0.00	10.09	6.99	6.78	6.96	-	52.4
Biofuels & waste	0.21	0.14	-	0.22	0.14	0.17	0.15	-	-

Source: IEA/OECD Energy Balances and IEA/OECD Energy Statistics of OECD Countries.

(1) Electricity generated = gross production - amount of electricity produced in pumped storage plants.

(2) Includes wave, ocean and other sources (e.g. fuel cells, from chemical heat).

Note: Please refer to definitions in the introductory information.

TURKEY

9. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)

	1980	1990	2000	2009	2010	2011	Average annual percent change 1990-2011
Hard coal and patent fuel							
Fuel input (1000 t)	62	30	21	33	26	26	-0.7
Fuel input (TJ)	1700	778	646	756	642	603	-1.2
Electricity production (GWh)	108	57	96	51	58	57	-
CHP Heat production (TJ)	-	-	-	134	88	75	-
Brown coal							
Fuel input (1000 t)	559	252	210	252	463	458	2.9
Fuel input (TJ)	7024	3654	3289	3873	5527	5428	1.9
Electricity production (GWh)	746	319	330	340	436	345	0.4
CHP Heat production (TJ)	-	-	916	425	775	963	-
Peat							
Fuel input (1000 t)	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Coal manufactured gases⁽¹⁾							
Fuel input (TJ)	-	-	686	2792	2551	2184	-
Electricity production (GWh)	-	-	64	222	210	177	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Petroleum products							
Fuel input (1000 t)	323	722	227	147	102	100	-9.0
Fuel input (TJ)	13151	30026	9434	6176	4551	4297	-8.8
Electricity production (GWh)	1141	2766	1255	531	322	364	-9.2
CHP Heat production (TJ)	-	-	1124	911	939	898	-
Natural gas⁽¹⁾							
Fuel input (TJ)	-	9	31614	88218	100689	104989	56.2
Electricity production (GWh)	-	1	3171	6190	6891	7855	53.3
CHP Heat production (TJ)	-	-	14143	42752	49315	48610	-
Wood and other solid waste							
Fuel input (TJ)	1134	-	730	335	371	252	-
Electricity production (GWh)	136	-	92	20	22	15	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Industrial waste							
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Municipal waste							
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Biogases and liquid biofuels							
Fuel input (TJ)	-	-	- e	296	381	753	-
Electricity production (GWh)	-	-	-	15	17	52	-
CHP Heat production (TJ)	-	-	-	161	213	371	-
Total combustible fuels⁽²⁾							
Electricity production (GWh)	2131	3143	5008	7369	7956	8865	5.1
CHP Heat production (TJ)	-	-	16183	44383	51330	50917	-

Source: IEA/OECD Electricity Statistics.

(1) Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

(2) Includes non-specified combustible fuels not shown in this table.

Note: Please refer to notes in the introductory information for data coverage.

UNITED KINGDOM

3. Summary electricity production and consumption ⁽¹⁾

(TWh)

	1973	1980	1990	2000	2005	2010	2011	2012e
Gross production	282.0	285.3	319.7	377.1	398.4	381.8	367.8	363.2
Nuclear	28.0	37.0	65.7	85.1	81.6	62.1	69.0	70.4
Hydro	4.6	5.1	7.2	7.8	7.9	6.8	8.6	8.2
<i>of which:</i>								
<i>pumped storage production</i>	<i>0.7</i>	<i>1.2</i>	<i>2.0</i>	<i>2.7</i>	<i>2.9</i>	<i>3.2</i>	<i>2.9</i>	<i>3.0</i>
Geothermal	-	-	-	-	-	-	-	-
Solar	-	-	-	0.0	0.0	0.0	0.3	1.3
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	0.0	0.9	2.9	10.2	15.5	19.4
Combustible fuels	249.5	243.2	246.8	283.3	306.0	302.6	274.5	263.9
<i>Coal</i>	<i>174.6</i>	<i>207.9</i>	<i>206.4 e</i>	<i>122.3</i>	<i>136.3</i>	<i>108.8</i>	<i>109.6</i>	<i>143.6</i>
<i>Oil</i>	<i>72.2</i>	<i>33.1</i>	<i>34.7 e</i>	<i>8.4</i>	<i>5.3</i>	<i>4.8</i>	<i>3.7</i>	<i>3.6</i>
<i>Natural gas</i>	<i>2.7</i>	<i>2.1</i>	<i>5.0 e</i>	<i>148.1</i>	<i>152.6</i>	<i>175.7</i>	<i>146.8</i>	<i>99.7</i>
<i>Biofuels & waste</i>	<i>-</i>	<i>-</i>	<i>0.7</i>	<i>4.5</i>	<i>11.7</i>	<i>13.4</i>	<i>14.4</i>	<i>17.0</i>
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
- Own use by power plant	19.2	19.0	19.6	16.3	17.9	16.1	16.5	..
Net production	262.9	266.3	300.1	360.8	380.5	365.7	351.3	..
Nuclear	..	32.3	58.7	78.3	75.2	56.4	62.7	..
Hydro	..	5.1	7.1	7.7	7.5	6.8	8.5	..
Geothermal	..	-	-	-	-	-	-	..
Solar	..	-	-	0.0	0.0	0.0	0.3	..
Tide, wave, ocean	..	-	-	-	-	-	-	..
Wind	..	-	0.0	0.9	2.9	10.2	15.5	..
Combustible fuels	..	228.9	234.4	273.8	294.9	292.3	264.4	..
Other (e.g. fuel cells)	..	-	-	-	-	-	-	..
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	0.9	1.5	2.6	3.5	3.7	4.2	3.8	3.8
+ Imports	0.2	0.0	12.0	14.3	11.2	7.1	8.7	13.8
- Exports	0.1	0.0	0.0	0.1	2.8	4.5	2.5	1.7
Electrical energy supplied	262.1	264.9	309.4	371.4	385.1	364.1	353.7	..
- Transmission & distr. losses	19.6	21.5	25.0	31.1	27.9	26.7	27.9	..
- Statistical difference	-	-	-	-	0.0	-0.0	-0.0	..
Total consumption	242.5	243.3	284.4	340.3	357.2	337.5	325.9	..
- Energy industry consumption ⁽²⁾	9.4	9.0	10.0	10.9	8.5	8.7	7.9	..
Final consumption	233.1	234.3	274.4	329.4	348.7	328.8	318.0	..
Industry	91.3	87.3	100.6	114.1	116.0	104.5	102.4	..
Transport	2.6	3.0	5.3	8.6	4.1	4.1	4.1	..
Commercial & publ. serv.	43.9	53.9	70.9	90.5	98.9	97.3	96.0	..
Residential	91.3	86.1	93.8	111.8	125.7	118.8	111.6	..
Agriculture & fishing	4.0	4.0	3.8	4.4	4.0	4.0	3.9	..
Sector non specified	-	-	-	-	-	-	-	..

Source: IEA/OECD Electricity Statistics.

(1) Electricity generation from main activity producer power plants and autoproducers.

(2) Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes; excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Note: Please refer to definitions in the introductory information.

UNITED KINGDOM

4. Electricity production and generation by source
(TWh)

	1974	1980	1990	2000	2009	2010	2011	Average annual percent change	
								74-90	90-11
Total gross production	273.13	285.30	319.74	377.07	376.78	381.77	367.80	1.0	0.7
- Hydro pumped storage	0.73	1.23	1.98	2.69	3.69	3.15	2.91	6.4	1.8
Total generation⁽¹⁾	272.40	284.07	317.76	374.38	373.09	378.62	364.90	1.0	0.7
Main activity producers									
Gross production	250.47	266.38	298.50	337.68	334.76	339.94	324.32	1.1	0.4
- Hydro pumped storage	0.73	1.23	1.98	2.69	3.69	3.15	2.91	6.4	1.8
Total generation ⁽¹⁾	249.74	265.15	296.51	334.98	331.07	336.79	321.41	1.1	0.4
Nuclear	29.40	33.46	61.31	85.06	69.10	62.14	68.98	4.7	0.6
Hydro	3.50	3.27	4.39	4.33	4.29	2.76	4.59	1.4	0.2
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide ⁽²⁾	-	-	-	-	6.90	7.95	12.68	-	-
Coal	140.78	201.72	201.33	117.03	99.29	103.94	104.80	2.3	-3.1
Oil	66.64	26.16	29.48	2.42	3.84	2.27	1.08	-5.0	-14.6
Natural gas	9.42	0.54	-	125.71	144.98	154.04	124.76	-	-
Biofuels & waste	-	-	-	0.44	2.67	3.69	4.53	-	-
Autoproducers									
Gross production	22.67	18.92	21.24	39.39	42.02	41.83	43.49	-0.4	3.5
- Hydro pumped storage	-	-	-	-	-	-	-	-	-
Total generation ⁽¹⁾	22.67	18.92	21.24	39.39	42.02	41.83	43.49	-0.4	3.5
Nuclear	4.22	3.56	4.44	-	-	-	-	0.3	-
Hydro	0.57	0.63	0.81	0.76	0.95	0.89	1.09	2.3	1.4
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide ⁽²⁾	-	-	0.01	0.95	2.42	2.26	3.07	-	32.0
Coal	8.05	6.18	5.11	5.28	5.16	4.86	4.83	-2.8	-0.3
Oil	8.77	6.98	5.20	6.03	2.16	2.53	2.59	-3.2	-3.3
Natural gas	1.06	1.58	5.00	22.37	21.52	21.62	22.06	10.2	7.3
Biofuels & waste	-	-	0.68	4.02	9.82	9.68	9.85	-	13.6

Source: IEA/OECD Energy Balances and IEA/OECD Energy Statistics of OECD Countries.

(1) Electricity generated = gross production - amount of electricity produced in pumped storage plants.

(2) Includes wave, ocean and other sources (e.g. fuel cells, from chemical heat).

Note: Please refer to definitions in the introductory information.

UNITED KINGDOM

9. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)

	1980	1990	2000	2009	2010	2011	Average annual percent change 1990-2011
Hard coal and patent fuel							
Fuel input (1000 t)	-	684 e	208	216	207	204	-5.6
Fuel input (TJ)	-	15257 e	5147	5369	5145	5070	-5.1
Electricity production (GWh)	-	1780 e	661	610	604	599	-5.1
CHP Heat production (TJ)	-	-	-	-	-	-	-
Brown coal							
Fuel input (1000 t)	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Peat							
Fuel input (1000 t)	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Coal manufactured gases⁽¹⁾							
Fuel input (TJ)	-	2755 e	2640	3999	4120	2850	0.2
Electricity production (GWh)	-	450	429	405	371	272	-2.4
CHP Heat production (TJ)	-	-	-	-	-	-	-
Petroleum products							
Fuel input (1000 t)	-	862 e	685	390	470	478	-2.8
Fuel input (TJ)	-	36818 e	28588	17988	21915	22440	-2.3
Electricity production (GWh)	-	4500 e	5862	1986	2502	2559	-2.7
CHP Heat production (TJ)	5037	-	-	-	-	-	-
Natural gas⁽¹⁾							
Fuel input (TJ)	-	20364 e	136230	154470	155696	156883	10.2
Electricity production (GWh)	-	2800 e	19390	20122	20257	20624	10.0
CHP Heat production (TJ)	-	-	-	-	-	-	-
Wood and other solid waste							
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Industrial waste							
Fuel input (TJ)	-	-	-	5225	1598	1405	-
Electricity production (GWh)	-	-	-	778	314	282	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Municipal waste							
Fuel input (TJ)	-	-	357	5552	6717	7692	-
Electricity production (GWh)	-	-	55	564	694	797	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Biogases and liquid biofuels							
Fuel input (TJ)	-	3904	4537	6210	7310	7859	3.4
Electricity production (GWh)	-	316	367	521	575	637	3.4
CHP Heat production (TJ)	-	-	-	-	-	-	-
Total combustible fuels⁽²⁾							
Electricity production (GWh)	-	9846	26764	24986	25317	25770	4.7
CHP Heat production (TJ)	5037	-	-	-	-	-	-

Source: IEA/OECD Electricity Statistics.

(1) Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

(2) Includes non-specified combustible fuels not shown in this table.

Note: Please refer to notes in the introductory information for data coverage.

UNITED STATES

3. Summary electricity production and consumption ⁽¹⁾

	(TWh)							
	1973	1980	1990	2000	2005	2010	2011	2012e
Gross production	1965.5	2427.3	3218.6	4052.7 e	4294.4 e	4378.4 e	4349.6 e	4299.8
Nuclear	89.2	266.2	611.6	797.7	810.7	838.9	821.4	799.7
Hydro	265.4	278.8	289.0	280.0	297.9	286.3	344.7	298.1
<i>of which:</i>								
<i>pumped storage production</i>	-	-	15.8	26.8	25.5	24.1	22.9	18.1
Geothermal	2.5	5.4	16.0	14.6	16.8	17.6	17.9	19.6
Solar	-	-	0.7	0.7 e	1.1 e	3.9 e	6.2 e	15.0
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	3.1	5.7	17.9	95.1 e	120.9 e	140.9
Combustible fuels	1608.5	1877.0	2298.3 e	2954.0 e	3149.3	3135.6	3037.7	3025.6
<i>Coal</i>	<i>907.4</i>	<i>1242.9</i>	<i>1699.6 e</i>	<i>2129.5 e</i>	<i>2154.0 e</i>	<i>1994.2 e</i>	<i>1875.4 e</i>	<i>1640.5</i>
<i>Oil</i>	<i>336.0</i>	<i>263.2</i>	<i>130.6</i>	<i>118.5</i>	<i>141.3</i>	<i>48.1</i>	<i>39.5</i>	<i>29.0</i>
<i>Natural gas</i>	<i>364.9</i>	<i>370.5</i>	<i>381.7</i>	<i>634.3</i>	<i>782.8</i>	<i>1017.9</i>	<i>1045.3</i>	<i>1277.3</i>
<i>Biofuels & waste</i>	<i>0.3</i>	<i>0.5</i>	<i>86.4 e</i>	<i>71.7</i>	<i>71.2</i>	<i>75.4</i>	<i>77.5</i>	<i>78.7</i>
Other (e.g. fuel cells)	-	-	-	-	0.6	0.9	0.9	0.9
- Own use by power plant	100.8	141.2	188.8	235.9 e	206.4 e	221.2	215.9	..
Net production	1864.7	2286.1	3029.8	3816.7 e	4088.0 e	4157.3 e	4133.7 e	..
Nuclear	..	251.1	577.0	753.9	782.0	807.0	790.2	..
Hydro	..	276.0	286.1	275.0	295.8	284.3	342.3	..
Geothermal	..	5.1	15.1	14.1	14.7	15.2	15.4	..
Solar	..	-	0.7	0.7 e	1.1 e	3.8 e	6.0 e	..
Tide, wave, ocean	..	-	-	-	-	-	-	..
Wind	..	-	3.0	5.6	17.8	94.7 e	120.2 e	..
Combustible fuels	..	1753.9	2148.0	2767.5	2976.0	2951.4	2858.8	..
Other (e.g. fuel cells)	..	-	-	-	0.6	0.9	0.9	..
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	-	-	22.6	31.7	32.0	29.6	28.9	28.9
+ Imports	16.8	30.2	22.5	48.6	44.5	45.1	52.3	52.3
- Exports	2.6	3.5	20.5	14.7	19.8	19.1	15.0	15.0
Electrical energy supplied	1878.9	2312.8	3009.2	3818.9 e	4080.6 e	4153.7 e	4142.1 e	..
- Transmission & distr. losses	163.1	213.1	296.7	229.1 e	269.2	261.0	259.5	..
- Statistical difference	-	-	-	-	-	-	-	..
Total consumption	1715.9	2099.8	2712.6	3589.8 e	3811.5 e	3892.7 e	3882.6 e	..
- Energy industry consumption ⁽²⁾	48.6	74.2	79.0	90.3	95.3	90.7	92.7	..
Final consumption	1667.3	2025.5	2633.6	3499.5 e	3716.2 e	3801.9 e	3789.9 e	..
Industry	645.8	746.1	866.5	1142.1	923.8	879.4	898.6	..
Transport	4.3	3.1	4.1	4.4	7.5	7.7	7.7	..
Commercial & publ. serv.	423.5	558.8	838.9	1160.3	1275.1	1330.1	1328.1	..
Residential	579.3	717.5	924.0	1192.4	1359.2	1445.7	1422.8	..
Agriculture & fishing	14.5	-	-	-	-	-	-	..
Sector non specified	-	-	-	0.2 e	150.5 e	139.0 e	132.8 e	..

Source: IEA/OECD Electricity Statistics.

(1) Electricity generation from main activity producer power plants and autoproducers.

(2) Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes; excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Note: Please refer to definitions in the introductory information.