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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 and patent fuel							
Fuel input (1000 t)	..	31	99 e	19	81	91	5.3
Fuel input (TJ)	..	840	2575 e	534	2266	2543	5.4
Electricity production (GWh)	..	178	530	46	130	148	-0.9
CHP Heat production (TJ)	..	-	-	213	1288	1646	-
Brown coal							
Fuel input (1000 t)	..	-	..	-	-	-	-
Fuel input (TJ)	..	3	..	-	-	-	-
Electricity production (GWh)	..	1	..	-	-	-	-
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)	..	5040	20647 e	32716	38118	38419	10.2
Electricity production (GWh)	..	779	2717	3303	3777	3805	7.8
CHP Heat production (TJ)	..	-	-	790	973	1281	-
Petroleum products							
Fuel input (1000 t)	..	1579	3449 e	4831	6009	5445	6.1
Fuel input (TJ)	..	63763	102336 e	184539	201025	177349	5.0
Electricity production (GWh)	..	8264	12804	15108	16618	16001	3.2
CHP Heat production (TJ)	..	-	..	62531	60272	57909	-
Natural gas[1]							
Fuel input (TJ)	..	56767	331791	701561	781761	704657	12.7
Electricity production (GWh)	..	7323	43076	78729	86707	76313	11.8
CHP Heat production (TJ)	..	-	-	107959	128832	125619	-
Wood and other solid waste							
Fuel input (TJ)	..	84	3379 e	11410	14113	22833	30.6
Electricity production (GWh)	..	12	338	723	717	845	22.5
CHP Heat production (TJ)	..	-	-	2535	3919	7630	-
Industrial waste							
Fuel input (TJ)	..	586	562	692	-	249	-4.0
Electricity production (GWh)	..	16	56	57	-	10	-2.2
CHP Heat production (TJ)	..	-	-	126	-	-	-
Municipal waste							
Fuel input (TJ)	..	18	3980 e	27364	30154	32054	42.8
Electricity production (GWh)	..	2	537	1632	1972	2034	39.1
CHP Heat production (TJ)	..	-	-	4680	5166	7162	-
Biogases and liquid biofuels							
Fuel input (TJ)	..	42	387 e	8794	13924	34200	37.6
Electricity production (GWh)	..	2	43	840	1550	2363	40.1
CHP Heat production (TJ)	..	-	-	1986	2055	14594	-
Total combustible fuels[2]							
Electricity production (GWh)	..	16577	60101	100438	111471	101519	9.0
CHP Heat production (TJ)	..	-	-	180820	202505	215841	-

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.

JAPAN

3. Summary electricity production and consumption [1]
(TWh)

	1973	1980	1990	2000	2005	2010	2011	2012e
Gross production	**470.3**	**576.3**	**842.0**	**1058.5 e**	**1099.8 e**	**1117.1 e**	**1051.3 e**	**1033.7**
Nuclear	9.7	82.6	202.3	322.0	304.8	288.2	101.8	11.2
Hydro	71.7	92.1	95.8	96.8	86.4	90.7	91.7	85.7
of which:								
pumped storage production	*4.9*	*3.8*	*6.5*	*9.6*	*9.9*	*8.5*	*8.5*	*8.0*
Geothermal	0.3	0.9	1.7	3.3	3.2	2.6	2.7	2.5
Solar	-	-	0.0	0.3 e	1.5 e	3.8	5.2	4.5
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	0.1	1.8	4.0	4.6	4.3
Combustible fuels	388.6	400.7	542.2	635.9	702.2	727.8	845.4	925.5
Coal	*37.3*	*54.9*	*116.7*	*232.3*	*303.5*	*297.9*	*281.1*	*291.5*
Oil	*340.8*	*264.7*	*247.9*	*137.1*	*137.7*	*93.7*	*153.3*	*171.1*
Natural gas	*10.5*	*81.1*	*167.1*	*251.3*	*239.0*	*300.4*	*374.0*	*425.9*
Biofuels & waste	*-*	*-*	*10.5*	*15.2*	*22.1*	*35.8*	*37.0*	*37.0*
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
- Own use by power plant	15.7	24.6	32.1	39.3	42.9	42.4	38.7	..
Net production	**454.6**	**551.8**	**809.9**	**1019.3**	**1056.9**	**1074.8**	**1012.6**	**..**
Nuclear	..	78.6	193.9	308.7	290.5	274.5	95.0	..
Hydro	..	91.5	95.1	96.1	85.8	90.2	91.3	..
Geothermal	..	-	1.6	3.1	3.0	2.4	2.4	..
Solar	..	-	0.0	0.3 e	1.5 e	3.8 e	5.2 e	..
Tide, wave, ocean	..	-	-	-	-	-	-	..
Wind	..	-	-	0.1	1.8	4.0	4.6	..
Combustible fuels	..	381.6	519.3	611.0	674.4	699.9	814.2	..
Other (e.g. fuel cells)	..	-	-	-	-	-	-	..
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	- e	0.3	1.1	1.1	1.1	1.0	1.0
- Used for pumped storage	4.7	6.1	10.0	14.8	13.5	9.8	9.7	9.1
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Electrical energy supplied	**449.8**	**545.6**	**799.6**	**1003.4**	**1042.3**	**1063.8**	**1001.8**	**..**
- Transmission & distr. losses	28.1	25.4	40.8	46.9	50.4	49.4	48.2	..
- Statistical difference	-	-	0.0	-0.0	0.0	-	-	..
Total consumption	**421.7**	**520.2**	**758.8**	**956.5**	**991.8**	**1014.4**	**953.7**	**..**
- Energy industry consumption[2]	6.5	7.0	9.2	12.7	13.8	14.7	14.3	..
Final consumption	**415.1**	**513.3**	**749.6**	**943.7**	**978.1**	**999.7**	**939.4**	**..**
Industry	291.4	327.8	337.3	361.6	341.1	327.8	279.4	..
Transport	13.2	15.2	16.8	18.6	19.1	18.8	18.6	..
Commercial & publ. serv.	30.1	53.0	209.7	303.7	332.3	343.2	345.3	..
Residential	79.2	116.1	184.1	257.9	283.1	305.3	290.2	..
Agriculture & fishing	1.2	1.2	1.6	1.6	1.0	0.9	0.9	..
Sector non specified	-	-	-	0.3	1.5	3.8	5.1	..

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	**459.08**	**576.33**	**842.04**	**1058.55**	**1050.33**	**1117.12**	**1051.25**	**3.9**	**1.1**
- Hydro pumped storage	*2.10*	*3.80*	*6.53*	*9.56*	*6.94*	*8.47*	*8.51*	*7.3*	*1.3*
Total generation(1)	**456.98**	**572.53**	**835.51**	**1048.98**	**1043.39**	**1108.65**	**1042.74**	**3.8**	**1.1**
Main activity producers									
Gross production	397.75	511.86	757.59	940.68	925.39	974.55	907.89	4.1	0.9
- Hydro pumped storage	*2.10*	*3.80*	*6.53*	*9.56*	*6.94*	*8.47*	*8.51*	*7.3*	*1.3*
Total generation(1)	395.65	508.06	751.06	931.11	918.46	966.08	899.38	4.1	0.9
Nuclear	19.70	82.01	201.40	321.34	279.75	288.23	101.76	15.6	-3.2
Hydro	76.55	81.35	82.22	79.76	67.60	65.71	65.87	0.4	-1.1
Geothermal	0.10	0.90	1.49	3.12	2.70	2.47	2.52	18.4	2.5
Solar, wind, tide(2)	-	-	-	0.00	0.01	0.04	0.10	-	-
Coal	30.35	37.95	94.30	191.66	236.65	252.48	237.41	7.3	4.5
Oil	253.60	224.75	205.83	87.50	51.76	59.34	119.03	-1.3	-2.6
Natural gas	15.35	81.11	165.26	245.67	274.90	287.37	360.40	16.0	3.8
Biofuels & waste	-	-	0.58	2.06	5.09	10.45	12.30	-	15.7
Autoproducers									
Gross production	61.32	64.47	84.45	117.87	124.94	142.57	143.36	2.0	2.6
- Hydro pumped storage	-	-	-	-	-	-	-	-	-
Total generation(1)	61.32	64.47	84.45	117.87	124.94	142.57	143.36	2.0	2.6
Nuclear	-	0.58	0.87	0.71	-	-	-	-	-
Hydro	6.13	6.95	7.09	7.49	9.29	16.51	17.33	0.9	4.4
Geothermal	-	-	0.26	0.23	0.19	0.16	0.16	-	-2.3
Solar, wind, tide(2)	-	-	0.00	0.46 e	6.37 e	7.72 e	9.62 e	-	54.8
Coal	9.41	16.98	22.41	40.59	43.80	45.37	43.74	5.6	3.2
Oil	45.79	39.96	42.06	49.58	36.34	34.40	34.31	-0.5	-1.0
Natural gas	-	-	1.83	5.66	12.59	13.03	13.56	-	10.0
Biofuels & waste	-	-	9.94	13.15	16.36	25.38	24.65	-	4.4

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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10. Heat produced for sale from combustible fuels in heat plants

	1980	1990	2000	2009	2010	2011	Average annual percent change 1990-2011
Hard coal[1] and patent fuel							
Fuel input (1000 t)	38	32	27	-	-	-	-
Fuel input (TJ)	960	804	690	-	-	-	-
Heat production (TJ)	637	515	613	-	-	-	-
Brown coal							
Fuel input (1000 t)	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-
Peat							
Fuel input (1000 t)	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-
Coal manufactured gases[2]							
Fuel input (TJ)	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-
Petroleum products							
Fuel input (1000 t)	40	57	36	7	18	17	-5.6
Fuel input (TJ)	1816	2534	1680	311	812	759	-5.6
Heat production (TJ)	1201	1609	1469	299	798	747	-3.6
Natural gas[2]							
Fuel input (TJ)	2946	6169	14515	16280	17003	15833	4.6
Heat production (TJ)	1949	3556	11597	14072	15046	14039	6.8
Wood and other solid waste							
Fuel input (TJ)	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-
Industrial waste							
Fuel input (TJ)	-	80	172	77	25	125	2.1
Heat production (TJ)	-	51	153	74	24	122	4.2
Municipal waste							
Fuel input (TJ)	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-
Biogases and liquid biofuels							
Fuel input (TJ)	-	1946	6098	5825	5537	4608	4.2
Heat production (TJ)	-	1279	5259	5295	5059	4200	5.8
Total combustible fuels[3]							
Heat production (TJ)	4270	7010	19091	19740	20927	19108	4.9

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.

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3. Summary electricity production and consumption [1]
(TWh)

	1973	1980	1990	2000	2005	2010	2011	2012e
Gross production	**14.8**	**37.2**	**105.4 e**	**290.1**	**389.4**	**499.5**	**523.3**	**531.0**
Nuclear	-	3.5	52.9	109.0	146.8	148.6	154.7	154.9
Hydro	1.3	2.0	6.4	5.6	5.2	6.5	7.8	6.3
of which:								
pumped storage production	-	-	-	*1.6*	*1.5*	*2.8*	*3.2*	*2.6*
Geothermal	-	-	-	-	-	-	-	-
Solar	-	-	0.0 e	0.0 e	0.0	0.8	0.9	0.9
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	0.0 e	0.1	0.8	0.9	0.9
Combustible fuels	13.5 e	31.8 e	46.1	175.5 e	237.2	342.5	358.5	367.6
Coal	*1.3 e*	*2.5 e*	*17.7*	*111.4*	*148.8*	*219.3*	*224.5*	*222.8*
Oil	*12.2*	*29.3*	*18.9 e*	*34.6*	*26.0 e*	*18.9 e*	*16.6*	*21.8*
Natural gas	-	-	*9.6*	*29.5*	*62.2*	*103.2*	*115.7*	*121.2*
Biofuels & waste	-	-	-	*0.1 e*	*0.3 e*	*1.1*	*1.6*	*1.8*
Other (e.g. fuel cells)	-	-	-	-	0.0	0.3	0.4	0.4
- Own use by power plant	0.7 e	2.0 e	5.1	12.4	16.6	19.1	20.1	..
Net production	**14.1 e**	**35.2 e**	**100.3 e**	**277.7**	**372.8**	**480.4**	**503.2**	**..**
Nuclear	..	3.3 e	50.4	103.5	139.3	141.9	147.8	..
Hydro	..	2.0 e	6.3	5.6	5.1	6.4	7.8	..
Geothermal	..	-	-	-	-	-	-	..
Solar	..	-	0.0 e	0.0 e	0.0	0.8	0.9	..
Tide, wave, ocean	..	-	-	-	-	-	-	..
Wind	..	-	-	0.0 e	0.1	0.8	0.9	..
Combustible fuels	..	30.0 e	43.6	168.6 e	228.2	330.2	345.4	..
Other (e.g. fuel cells)	..	-	-	-	0.0	0.3	0.4	..
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	-	0.1	2.3	2.1	2.0	3.7	4.3	3.4
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Electrical energy supplied	**14.1 e**	**35.1 e**	**98.0 e**	**275.6**	**370.8**	**476.7**	**498.9**	**..**
- Transmission & distr. losses	1.3 e	2.4 e	3.6	12.5	13.7	18.0	17.4	..
- Statistical difference	-	-	0.0 e	-	-0.5	0.2	0.5	..
Total consumption	**12.8**	**32.7**	**94.4**	**263.1**	**357.6**	**458.5**	**481.0**	**..**
- Energy industry consumption[2]	-	-	-	-	-	9.1	10.3	..
Final consumption	**12.8**	**32.7**	**94.4**	**263.1**	**357.6**	**449.3**	**470.6**	**..**
Industry	8.8	22.7	57.8	150.4	184.0	228.1	246.0	..
Transport	0.1	0.4	1.0	2.0	2.6	2.2	2.2	..
Commercial & publ. serv.	2.2	4.1	16.4	68.3	113.2	147.7	149.9	..
Residential	1.5	5.3	17.7	37.1	50.9	61.3	61.9	..
Agriculture & fishing	0.1	0.2	1.5	5.3	7.0	10.0	10.6	..
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	**16.84**	**37.24**	**105.37**	**290.13**	**454.50**	**499.51**	**523.29**	**12.1**	**7.9**
- Hydro pumped storage	-	-	-	*1.60*	*2.83*	*2.79*	*3.23*	-	-
Total generation(1)	**16.84**	**37.24**	**105.37**	**288.53**	**451.68**	**496.72**	**520.05**	**12.1**	**7.9**
Main activity producers									
Gross production	16.81	37.18	99.48	262.37	430.62	471.03	493.60	11.8	7.9
- Hydro pumped storage	-	-	-	*1.60*	*2.83*	*2.79*	*3.23*	-	-
Total generation(1)	16.81	37.18	99.48	260.77	427.79	468.24	490.36	11.8	7.9
Nuclear	-	3.48	52.89	108.96	147.77	148.60	154.72	-	5.2
Hydro	1.91	1.98	6.36	4.01	2.81	3.68	4.60	7.8	-1.5
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide(2)	-	-	-	0.01 e	1.27	1.67	1.84	-	-
Coal	0.72	2.42	11.77	97.55	193.20	199.70	203.97	19.1	14.5
Oil	14.19	29.30	18.86	21.75	14.21	13.17	11.47	1.8	-2.3
Natural gas	-	-	9.60	28.50	68.10	100.90	113.15	-	12.5
Biofuels & waste	-	-	-	-	0.43	0.51	0.62	-	-
Autoproducers									
Gross production	0.03	0.06	5.89	27.75	23.89	28.48	29.69	40.7	8.0
- Hydro pumped storage	-	-	-	-	-	-	-	-	-
Total generation(1)	0.03	0.06	5.89	27.75	23.89	28.48	29.69	40.7	8.0
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide(2)	-	-	0.00	0.01 e	0.16	0.26	0.39	-	32.8
Coal	0.03 e	0.06 e	5.89	13.85	15.67	19.58	20.55	40.7	6.1
Oil	-	-	-	12.83	5.60	5.77	5.17	-	-
Natural gas	-	-	-	0.97	2.17	2.28	2.57	-	-
Biofuels & waste	-	-	-	0.09	0.29	0.60	1.02	-	-

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)	-	-	1939	3421	4169	5137	-
Fuel input (TJ)	-	-	53580	82201	101176	128389	-
Electricity production (GWh)	-	-	2037	3304	5029	6255	-
CHP Heat production (TJ)	-	-	33102	50690	53342	57270	-
Brown coal							
Fuel input (1000 t)	-	-	-	-	-	86	-
Fuel input (TJ)	-	-	-	-	-	2927	-
Electricity production (GWh)	-	-	-	-	-	87	-
CHP Heat production (TJ)	-	-	-	-	-	811	-
Peat							
Fuel input (1000 t)	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Coal manufactured gases[2]							
Fuel input (TJ)	724 e	85897	94717	97663	116116	122612	1.7
Electricity production (GWh)	60 e	5891	11280	11932	13756	13646	4.1
CHP Heat production (TJ)	-	-	-	488	-	462	-
Petroleum products							
Fuel input (1000 t)	-	-	3396 e	2319	2324	2018	-
Fuel input (TJ)	-	-	154012	109274	100339	96201	-
Electricity production (GWh)	-	-	8044	4745	4905	3833	-
CHP Heat production (TJ)	-	-	59190	63464	49799	47739	-
Natural gas[2]							
Fuel input (TJ)	-	-	123037	153913	206618	235783	-
Electricity production (GWh)	-	-	11844	14833	20505	23626	-
CHP Heat production (TJ)	-	-	36767	51117	57308	65264	-
Wood and other solid waste							
Fuel input (TJ)	-	-	-	2124	1802	1964	-
Electricity production (GWh)	-	-	-	28	21	87	-
CHP Heat production (TJ)	-	-	-	1333	1077	988	-
Industrial waste							
Fuel input (TJ)	-	-	-	-	25	1815	-
Electricity production (GWh)	-	-	-	-	1	129	-
CHP Heat production (TJ)	-	-	-	-	9	1081	-
Municipal waste							
Fuel input (TJ)	-	-	344 e	7391	7125	11497	-
Electricity production (GWh)	-	-	36 e	186	207	253	-
CHP Heat production (TJ)	-	-	-	2516	2295	4575	-
Biogases and liquid biofuels							
Fuel input (TJ)	-	-	-	-	1131	1054	-
Electricity production (GWh)	-	-	-	-	102	107	-
CHP Heat production (TJ)	-	-	-	-	515	401	-
Total combustible fuels[3]							
Electricity production (GWh)	60 e	5891	33241 e	35028	44526	48023	10.5
CHP Heat production (TJ)	-	-	129059	169608	164345	178591	-

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.

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3. Summary electricity production and consumption [1]
(TWh)

	1973	1980	1990	2000	2005	2010	2011	2012e
Gross production	**2.2**	**1.1**	**1.4**	**1.2**	**4.1**	**4.6**	**3.7**	**3.8**
Nuclear	-	-	-	-	-	-	-	-
Hydro	0.8	0.3	0.8	0.9	0.9	1.5	1.1	1.2
of which:								
pumped storage production	*0.8*	*0.2*	*0.8*	*0.7*	*0.8*	*1.4*	*1.1*	*1.1*
Geothermal	-	-	-	-	-	-	-	-
Solar	-	-	-	-	0.0	0.0	0.0	0.0
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	0.0	0.1	0.1	0.1	0.1
Combustible fuels	1.3	0.8	0.6	0.3	3.2	3.0	2.5	2.5
Coal	*0.8*	*0.5*	*0.5*	*-*	*-*	*-*	*-*	*-*
Oil	*0.4*	*0.1*	*0.0*	*-*	*0.0*	*0.0*	*0.0*	*0.0*
Natural gas	*0.1*	*0.2*	*0.0*	*0.2*	*3.1*	*2.9*	*2.3*	*2.4*
Biofuels & waste	*-*	*0.0*	*0.0*	*0.1*	*0.1*	*0.1*	*0.2*	*0.2*
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
- Own use by power plant	0.1	0.1	0.0	0.0	0.0	0.0	0.0	..
Net production	**2.1**	**1.1**	**1.3**	**1.1**	**4.1**	**4.6**	**3.7**	**..**
Nuclear	..	-	-	-	-	-	-	..
Hydro	..	0.3	0.8	0.9	0.9	1.5	1.1	..
Geothermal	..	-	-	-	-	-	-	..
Solar	..	-	-	-	0.0	0.0	0.0	..
Tide, wave, ocean	..	-	-	-	-	-	-	..
Wind	..	-	-	0.0	0.1	0.1	0.1	..
Combustible fuels	..	0.8	0.5	0.3	3.2	3.0	2.5	..
Other (e.g. fuel cells)	..	-	-	-	-	-	-	..
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	1.1	0.3	1.0	1.0	1.1	1.9	1.5	1.5
+ Imports	2.8	3.0	4.7	6.4	6.4	7.3	7.1	6.7
- Exports	0.8	0.2	0.7	0.7	3.1	3.2	2.6	2.6
Electrical energy supplied	**3.1**	**3.6**	**4.2**	**5.8**	**6.3**	**6.7**	**6.6**	**..**
- Transmission & distr. losses	0.1	0.0	0.1	0.0	0.1	0.1	0.1	..
- Statistical difference	-	-	-0.0	0.0	-0.0	0.0	0.0	..
Total consumption	**3.0**	**3.6**	**4.1**	**5.8**	**6.2**	**6.6**	**6.5**	**..**
- Energy industry consumption[2]	-	-	-	-	-	-	-	..
Final consumption	**3.0**	**3.6**	**4.1**	**5.8**	**6.2**	**6.6**	**6.5**	**..**
Industry	2.4	2.5	2.8	3.2	3.2	3.6	3.3	..
Transport	0.0	0.0	0.1	0.1	0.1	0.1	0.1	..
Commercial & publ. serv.	-	0.5	0.6	1.6	2.0	2.0	2.2	..
Residential	0.2	0.5	0.6	0.8	0.8	0.9	0.8	..
Agriculture & fishing	-	0.1	0.1	0.0	0.0	0.0	0.0	..
Sector non specified	0.4	-	-	-	-	-	-	..

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	**2.08**	**1.11**	**1.38**	**1.17**	**3.88**	**4.59**	**3.72**	**-2.5**	**4.8**
- Hydro pumped storage	*0.84*	*0.19*	*0.75*	*0.75*	*0.73*	*1.36*	*1.07*	*-0.7*	*1.7*
Total generation(1)	**1.24**	**0.92**	**0.62**	**0.42**	**3.15**	**3.23**	**2.65**	**-4.2**	**7.1**
Main activity producers									
Gross production	0.92	0.32	0.85	0.98	3.58	4.26	3.37	-0.5	6.8
- Hydro pumped storage	*0.84*	*0.19*	*0.75*	*0.75*	*0.73*	*1.36*	*1.07*	*-0.7*	*1.7*
Total generation(1)	0.08	0.13	0.10	0.23	2.86	2.90	2.30	1.2	16.0
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	0.08	0.10	0.07	0.12	0.10	0.10	0.05	-1.3	-1.0
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide(2)	-	-	-	0.03	0.06	0.06	0.06	-	-
Coal	-	-	-	-	-	-	-	-	-
Oil	-	-	-	-	-	0.00	0.00	-	-
Natural gas	-	-	-	0.03	2.63	2.67	2.08	-	-
Biofuels & waste	-	0.03	0.03	0.05	0.07	0.07	0.10	-	5.3
Autoproducers									
Gross production	1.16	0.79	0.52	0.19	0.30	0.34	0.35	-4.9	-1.9
- Hydro pumped storage	-	-	-	-	-	-	-	-	-
Total generation(1)	1.16	0.79	0.52	0.19	0.30	0.34	0.35	-4.9	-1.9
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	-	-	0.00	0.01	0.01	0.01	0.00	-	1.4
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide(2)	-	-	-	-	0.02	0.02	0.03	-	-
Coal	0.71	0.47	0.48	-	-	-	-	-2.5	-
Oil	0.33	0.10	0.01	-	-	-	-	-20.1	-
Natural gas	0.12	0.22	0.03	0.18	0.22	0.25	0.26	-7.6	10.2
Biofuels & waste	-	-	-	0.00	0.05	0.06	0.06	-	-

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 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[1]							
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Petroleum products							
Fuel input (1000 t)	-	-	1	1	c	1	-
Fuel input (TJ)	-	-	47	62	7	7	-
Electricity production (GWh)	-	-	-	-	1	1	-
CHP Heat production (TJ)	-	-	22	29	3	3	-
Natural gas[1]							
Fuel input (TJ)	-	-	3086	4602	5554	5455	-
Electricity production (GWh)	-	-	215	337	385	391	-
CHP Heat production (TJ)	-	-	272	905	1061	930	-
Wood and other solid waste							
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
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)	-	-	19	220	306	313	-
Electricity production (GWh)	-	-	4	53	55	56	-
CHP Heat production (TJ)	-	-	-	-	33	37	-
Total combustible fuels[2]							
Electricity production (GWh)	-	-	219	390	441	448	-
CHP Heat production (TJ)	-	-	294	934	1097	970	-

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.

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3. Summary electricity production and consumption [1]
(TWh)

	1973	1980	1990	2000	2005	2010	2011	2012e
Gross production	**37.1**	**67.0**	**115.8**	**204.2**	**243.8**	**271.1**	**295.8**	**296.0**
Nuclear	-	-	2.9	8.2	10.8	5.9	10.1	8.8
Hydro	16.2	16.9	23.5	33.1	27.7	37.1	36.3	31.9
of which:								
pumped storage production	-	-	-	-	-	-	-	-
Geothermal	0.2	0.9	5.1	5.9	7.3	6.6	6.5	5.8
Solar	-	-	0.0	0.0	0.0	0.0	0.0	0.0
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	0.0	0.0	0.0	1.2	1.6	3.3
Combustible fuels	20.8	49.2	84.3	156.9	198.0	220.2	241.3	246.2
Coal	*0.2*	*-*	*7.8*	*19.4*	*33.1*	*32.6*	*34.1*	*34.1*
Oil	*15.3*	*38.8*	*62.1*	*94.3*	*66.8*	*43.9*	*48.4*	*55.7*
Natural gas	*5.3*	*10.4*	*14.5*	*41.5*	*95.1*	*141.0*	*156.3*	*154.6*
Biofuels & waste	*-*	*-*	*-*	*1.7*	*3.1*	*2.7*	*2.5*	*1.9*
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
- Own use by power plant	1.2	3.0	5.8	10.0	12.2	11.0	16.8	..
Net production	**35.9**	**64.0**	**110.0**	**194.2**	**231.6**	**260.1**	**279.0**	**..**
Nuclear	..	-	2.8	7.9	10.3	5.7	9.7	..
Hydro	..	16.8	23.4	32.7	27.3	36.8	35.9	..
Geothermal	..	0.9	4.9	5.6	7.0	6.3	6.2	..
Solar	..	-	0.0	0.0	0.0	0.0	0.0	..
Tide, wave, ocean	..	-	-	-	-	-	-	..
Wind	..	-	0.0	0.0	0.0	1.2	1.6	..
Combustible fuels	..	46.3	78.9	148.0	187.0	210.1	225.5	..
Other (e.g. fuel cells)	..	-	-	-	-	-	-	..
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	-	-	-	-	-	-	-	-
+ Imports	0.3	0.6	0.6	1.1	0.1	0.4	0.6	1.9
- Exports	-	-	1.9	0.2	1.3	1.3	1.2	1.0
Electrical energy supplied	**36.2**	**64.6**	**108.6**	**195.1**	**230.4**	**259.1**	**278.5**	**..**
- Transmission & distr. losses	4.6	7.5	15.0	28.5	37.4	44.3	45.6	..
- Statistical difference	-	-	-6.5	-0.1	-1.3	-0.5	-0.3	..
Total consumption	**31.6**	**57.2**	**100.2**	**166.7**	**194.3**	**215.3**	**233.1**	**..**
- Energy industry consumption[2]	-	-	-	4.5	7.1	7.4	7.2	..
Final consumption	**31.6**	**57.2**	**100.2**	**162.2**	**187.1**	**207.9**	**225.9**	**..**
Industry	18.1	30.2	53.4	99.5	104.5	115.1	124.1	..
Transport	0.4	0.4	0.8	1.1	1.1	1.2	1.1	..
Commercial & publ. serv.	-	7.9	10.9	17.6	19.6	20.9	22.8	..
Residential	8.7	10.0	20.4	36.1	42.5	49.4	52.5	..
Agriculture & fishing	1.7	3.7	6.7	7.9	8.1	8.6	11.2	..
Sector non specified	2.7	4.9	8.0	-	11.4	12.8	14.3	..

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.

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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	**40.98**	**66.96**	**115.84**	**204.18**	**261.05**	**271.05**	**295.84**	**6.7**	**4.6**
- Hydro pumped storage	-	-	-	-	-	-	-	-	-
Total generation(1)	**40.98**	**66.96**	**115.84**	**204.18**	**261.05**	**271.05**	**295.84**	**6.7**	**4.6**
Main activity producers									
Gross production	38.01	61.87	115.70	192.58	235.11	242.54	266.36	7.2	4.1
- Hydro pumped storage	-	-	-	-	-	-	-	-	-
Total generation(1)	38.01	61.87	115.70	192.58	235.11	242.54	266.36	7.2	4.1
Nuclear	-	-	2.94	8.22	10.50	5.88	10.09	-	6.1
Hydro	16.60	16.74	23.34	33.08	26.45	36.74	35.80	2.2	2.1
Geothermal	0.46	0.92	5.12	5.90	6.74	6.62	6.51	16.2	1.1
Solar, wind, tide(2)	-	-	-	0.01	0.25	0.17	0.36	-	-
Coal	0.22	-	7.77	18.55	29.06	31.94	33.47	24.9	7.2
Oil	15.80	33.85	62.06	90.05	40.38	37.75	42.47	8.9	-1.8
Natural gas	4.92	10.37	14.46	36.78	121.73	123.45	137.67	7.0	11.3
Biofuels & waste	-	-	-	-	-	-	-	-	-
Autoproducers									
Gross production	2.98	5.09	0.14	11.60	25.94	28.51	29.48	-17.3	28.9
- Hydro pumped storage	-	-	-	-	-	-	-	-	-
Total generation(1)	2.98	5.09	0.14	11.60	25.94	28.51	29.48	-17.3	28.9
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	0.11	0.15	0.14	0.06	0.27	0.38	0.47	1.7	5.9
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide(2)	-	-	0.00	0.02	0.36	1.10	1.32	-	36.2
Coal	-	-	-	0.89	0.49	0.68	0.66	-	-
Oil	2.87	4.95	-	4.28	5.36	6.13	5.90	-	-
Natural gas	-	-	-	4.69	16.74	17.53	18.61	-	-
Biofuels & waste	-	-	-	1.67	2.72	2.69	2.51	-	-

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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11. Final consumption of energy by source (continued)
(Mtoe)

	1973	1980	1990	2000	2009	2010	2011	Average annual percent change 73-90	90-11
Residential	**8.59**	**11.16**	**15.75**	**18.09**	**17.69**	**17.84**	**18.02**	**3.6**	**0.6**
Geothermal	-	-	-	-	-	-	-	-	-
Solar thermal	-	-	0.01	0.02	0.09	0.07	0.08	-	10.5
Coal	-	-	-	-	-	-	-	-	-
Oil	2.58	4.49	6.57	7.64	6.45	6.59	6.52	5.7	-0.0
Natural gas	0.39	0.47	0.81	0.52	0.69	0.74	0.72	4.4	-0.6
Biofuels & waste	4.88	5.34	6.60	6.81	6.22	6.20	6.19	1.8	-0.3
Electricity	0.74	0.86	1.75	3.11	4.23	4.25	4.52	5.2	4.6
Heat	-	-	-	-	-	-	-	-	-
Agriculture & fishing	**1.34**	**2.37**	**2.24**	**2.84**	**3.60**	**3.52**	**3.84**	**3.1**	**2.6**
Geothermal	-	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-	-
Coal	-	-	-	-	-	-	-	-	-
Oil	1.19	2.05	1.66	2.16	2.80	2.78	2.88	2.0	2.6
Natural gas	-	-	-	-	-	-	-	-	-
Biofuels & waste	-	-	-	-	-	-	-	-	-
Electricity	0.15	0.32	0.58	0.68	0.80	0.74	0.96	8.3	2.5
Heat	-	-	-	-	-	-	-	-	-
Other	**0.23**	**0.42**	**0.69**	**-**	**1.04**	**1.10**	**1.23**	**6.6**	**2.8**
Geothermal	-	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-	-
Coal	-	-	-	-	-	-	-	-	-
Oil	-	-	-	-	-	-	-	-	-
Natural gas	-	-	-	-	-	-	-	-	-
Biofuels & waste	-	-	-	-	-	-	-	-	-
Electricity	0.23	0.42	0.69	-	1.04	1.10	1.23	6.6	2.8
Heat	-	-	-	-	-	-	-	-	-
Non-energy use[1]	**2.35**	**4.98**	**9.08**	**9.85**	**7.90**	**8.16**	**8.01**	**8.27**	**-0.59**

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

(1) Refers to use of refined petroleum products, natural gas or coal for non energy purposes. This includes use of products such as white spirit, paraffin waxes, lubricants and bitumen, or transformations such as coal for graphite electrodes, as well as oil and natural gas used as petrochemical feedstocks.

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

NETHERLANDS

3. Summary electricity production and consumption [1]
(TWh)

	1973	1980	1990	2000	2005	2010	2011	2012e
Gross production	**52.6**	**64.8**	**71.9**	**89.6**	**100.2**	**118.1**	**113.0**	**102.2**
Nuclear	1.1	4.2	3.5	3.9	4.0	4.0	4.1	4.0
Hydro	-	-	0.1	0.1	0.1	0.1	0.1	0.1
of which:								
pumped storage production	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar	-	-	-	0.0	0.0	0.1	0.1	0.2
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	0.1	0.8	2.1	4.0	5.1	5.0
Combustible fuels	51.5	60.6	68.3	84.5	93.8	109.9	103.4	92.8
Coal	*3.2*	*8.9*	*27.5*	*27.1*	*26.9*	*25.8*	*24.7*	*27.3*
Oil	*6.5*	*24.9*	*3.1*	*2.6*	*2.3*	*1.3*	*1.5*	*1.1*
Natural gas	*41.9*	*25.8*	*36.6*	*51.5*	*57.9*	*74.2*	*68.4*	*55.5*
Biofuels & waste	*-*	*1.0*	*1.1*	*3.2*	*6.7*	*8.6*	*8.8*	*8.9*
Other (e.g. fuel cells)	-	-	-	0.2	0.3	0.2	0.1	0.2
- Own use by power plant	2.4	2.8	2.5	3.6	4.0	3.8	3.9	..
Net production	**50.2**	**62.0**	**69.4**	**86.0**	**96.2**	**114.3**	**109.0**	**..**
Nuclear	..	3.9	3.3	3.7	3.8	3.8	3.9	..
Hydro	..	-	0.1	0.1	0.1	0.1	0.1	..
Geothermal	..	-	-	-	-	-	-	..
Solar	..	-	-	0.0	0.0	0.1	0.1	..
Tide, wave, ocean	..	-	-	-	-	-	-	..
Wind	..	-	0.1	0.8	2.1	4.0	5.1	..
Combustible fuels	..	58.0	66.0	81.1	90.0	106.3	99.7	..
Other (e.g. fuel cells)	..	-	-	0.2	0.3	0.2	0.1	..
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	-	-	-	-	-	-	-	-
+ Imports	0.0	0.5	9.7	22.9	23.7	15.6	20.6	32.2
- Exports	1.4	0.8	0.5	4.0	5.4	12.8	11.5	15.0
Electrical energy supplied	**48.9**	**61.7**	**78.6**	**104.9**	**114.5**	**117.1**	**118.1**	**..**
- Transmission & distr. losses	2.7	2.7	3.1	4.1	4.5	4.5	4.6	..
- Statistical difference	-	-	-	-	-	-	-	..
Total consumption	**46.1**	**58.9**	**75.5**	**100.9**	**110.0**	**112.7**	**113.5**	**..**
- Energy industry consumption[2]	1.8	1.5	2.0	3.1	5.5	5.8	6.1	..
Final consumption	**44.3**	**57.4**	**73.5**	**97.8**	**104.5**	**106.9**	**107.5**	**..**
Industry	22.7	28.1	33.2	40.8	41.6	39.1	39.0	..
Transport	0.9	1.0	1.3	1.6	1.6	1.7	1.7	..
Commercial & publ. serv.	9.8	11.5	20.1	29.3	30.6	35.0	35.7	..
Residential	11.0	15.1	16.5	21.8	24.2	24.7	23.7	..
Agriculture & fishing	-	1.8	2.4	4.2	6.5	6.4	7.4	..
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.

NETHERLANDS

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	**54.76**	**64.81**	**71.94**	**89.63**	**113.50**	**118.14**	**112.97**	**1.7**	**2.2**
- Hydro pumped storage	-	-	-	-	-	-	-	-	-
Total generation(1)	**54.76**	**64.81**	**71.94**	**89.63**	**113.50**	**118.14**	**112.97**	**1.7**	**2.2**
Main activity producers									
Gross production	48.59	58.17	59.70	75.80	91.71	95.11	88.78	1.3	1.9
- Hydro pumped storage	-	-	-	-	-	-	-	-	-
Total generation(1)	48.59	58.17	59.70	75.80	91.71	95.11	88.78	1.3	1.9
Nuclear	3.28	4.20	3.50	3.93	4.23	3.97	4.14	0.4	0.8
Hydro	-	-	0.09	0.14	0.10	0.11	0.06	-	-1.9
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide(2)	-	-	0.06	0.80	3.70	3.23	3.74	-	22.3
Coal	2.23	8.30	27.15	27.00	26.48	25.70	24.62	16.9	-0.5
Oil	2.97	23.68	0.22	0.25	0.37	0.40	0.65	-15.1	5.4
Natural gas	40.12	22.00	28.63	43.13	53.67	57.91	51.92	-2.1	2.9
Biofuels & waste	-	-	0.05	0.56	3.17	3.82	3.66	-	22.6
Autoproducers									
Gross production	6.18	6.63	12.24	13.83	21.79	23.03	24.19	4.4	3.3
- Hydro pumped storage	-	-	-	-	-	-	-	-	-
Total generation(1)	6.18	6.63	12.24	13.83	21.79	23.03	24.19	4.4	3.3
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide(2)	-	-	0.00	0.29	1.06	0.98	1.61	-	42.1
Coal	0.74	0.58	0.37	0.11	0.12	0.10	0.12	-4.3	-5.3
Oil	0.96	1.22	2.90	2.39	1.12	0.86	0.81	7.2	-5.9
Natural gas	4.48	3.81	7.97	8.40	15.03	16.30	16.52	3.7	3.5
Biofuels & waste	-	1.02	1.01	2.64	4.45	4.79	5.14	-	8.1

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.

NETHERLANDS

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)	2202	8721	3662	3171	3250	2072	-6.6
Fuel input (TJ)	64163	220393	89212	78606	80678	50984	-6.7
Electricity production (GWh)	7230	25014	10349	9160	9322	5989	-6.6
CHP Heat production (TJ)	-	5606	12973	14240	17168	15948	5.1
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)	15843	19772	7155	6141	9555	10175	-3.1
Electricity production (GWh)	1644	2137	906	825	1235	1305	-2.3
CHP Heat production (TJ)	-	-	738	1179	2903	2493	-
Petroleum products							
Fuel input (1000 t)	5359	694	387	349	318	396	-2.6
Fuel input (TJ)	220862	30420	17157	15699	14353	17895	-2.5
Electricity production (GWh)	24899	3112	2641	1487	1253	1454	-3.6
CHP Heat production (TJ)	-	48	2854	6080	5340	6820	26.6
Natural gas[1]							
Fuel input (TJ)	249332	330704	327228	393361	406597	349360	0.3
Electricity production (GWh)	25809	36605	31843	44526	47335	40824	0.5
CHP Heat production (TJ)	-	6027	122420	98033	99883	91810	13.8
Wood and other solid waste							
Fuel input (TJ)	-	440	1509	16183	16196	15103	18.3
Electricity production (GWh)	-	34	144	1786	1750	1649	20.3
CHP Heat production (TJ)	-	233	203	1639	2051	1914	10.5
Industrial waste							
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Municipal waste							
Fuel input (TJ)	9504	22840	16172	39637	42576	53701	4.2
Electricity production (GWh)	1024	933	854	2292	2602	3385	6.3
CHP Heat production (TJ)	-	3124	1363	3127	2425	5195	2.5
Biogases and liquid biofuels							
Fuel input (TJ)	-	616	1058	5911	6567	6552	11.9
Electricity production (GWh)	-	91	173	832	946	964	11.9
CHP Heat production (TJ)	-	20	44	223	282	244	12.7
Total combustible fuels[2]							
Electricity production (GWh)	60606	67926	46910	60908	64443	55570	-1.0
CHP Heat production (TJ)	-	15058	140595	124521	130052	124424	10.6

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.

NEW ZEALAND

3. Summary electricity production and consumption [1]
(TWh)

	1973	1980	1990	2000	2005	2010	2011	2012e
Gross production	**18.5**	**22.6**	**32.3**	**39.2**	**43.0**	**44.9**	**44.5**	**44.3**
Nuclear	-	-	-	-	-	-	-	-
Hydro	14.3	18.9	23.2	24.4	23.3	24.7	25.1	22.8
of which:								
pumped storage production	-	-	-	-	-	-	-	-
Geothermal	1.2	1.2	2.1	2.9	3.2	5.9	6.1	6.2
Solar	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	0.1	0.6	1.6	2.0	2.0
Combustible fuels	3.0	2.5	6.9	11.7	15.8	12.6	11.3	13.2
Coal	*1.6*	*0.4*	*0.7*	*1.5*	*5.9*	*2.1*	*2.2*	*3.6*
Oil	*1.1*	*0.0*	*0.0*	*-*	*0.0*	*0.0*	*0.0*	*0.0*
Natural gas	*0.3*	*1.7*	*5.7 e*	*9.6*	*9.4*	*9.9*	*8.5*	*9.0*
Biofuels & waste	*-*	*0.3*	*0.5*	*0.6*	*0.5*	*0.6*	*0.6*	*0.6*
Other (e.g. fuel cells)	-	-	0.1	0.1	0.1	0.1	0.1	0.1
- Own use by power plant	0.4	0.2	0.8	1.2	1.5	1.4	1.4	..
Net production	**18.1**	**22.4**	**31.5**	**38.1**	**41.5**	**43.5**	**43.1**	**..**
Nuclear	..	-	-	-	-	-	-	..
Hydro	..	18.9	23.0	24.2	23.1	24.5	24.8	..
Geothermal	..	1.2	2.0	2.8	3.0	5.6	5.8	..
Solar	..	-	-	-	-	-	-	..
Tide, wave, ocean	..	-	-	-	-	-	-	..
Wind	..	-	-	0.1	0.6	1.6	1.9	..
Combustible fuels	..	2.3	6.4	10.9	14.8	11.8	10.5	..
Other (e.g. fuel cells)	..	-	0.1	0.1	0.1	0.1	0.1	..
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	-	-	-	-	-	-	-	-
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Electrical energy supplied	**18.1**	**22.4**	**31.5**	**38.1**	**41.5**	**43.5**	**43.1**	**..**
- Transmission & distr. losses	2.2	2.8	2.4	3.0	3.0	3.1	3.1	..
- Statistical difference	-	-0.0	0.6	0.2	0.1	0.7	0.9	..
Total consumption	**15.9**	**19.5**	**28.5**	**34.8**	**38.5**	**39.6**	**39.1**	**..**
- Energy industry consumption[2]	0.0	0.0	0.3	0.5	0.5	0.5	0.5	..
Final consumption	**15.9**	**19.5**	**28.2**	**34.3**	**38.0**	**39.1**	**38.6**	**..**
Industry	5.6	7.7	11.2	14.0	15.3	14.1	14.0	..
Transport	0.0	0.0	0.1	0.1	0.1	0.1	0.1	..
Commercial & publ. serv.	2.5	3.3	5.3	6.8	8.2	9.2	9.1	..
Residential	7.4	8.0	10.2	11.3	12.1	13.2	12.9	..
Agriculture & fishing	0.4	0.5	0.7	1.3	1.5	1.9	1.9	..
Sector non specified	-	-	0.8	0.8	0.8	0.6	0.6	..

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.

NEW ZEALAND

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	**18.83**	**22.60**	**32.27**	**39.25**	**43.46**	**44.88**	**44.50**	**3.4**	**1.5**
- Hydro pumped storage	-	-	-	-	-	-	-	-	-
Total generation(1)	**18.83**	**22.60**	**32.27**	**39.25**	**43.46**	**44.88**	**44.50**	**3.4**	**1.5**
Main activity producers									
Gross production	18.55	22.29	31.41	37.67	42.14	43.49	43.21	3.3	1.5
- Hydro pumped storage	-	-	-	-	-	-	-	-	-
Total generation(1)	18.55	22.29	31.41	37.67	42.14	43.49	43.21	3.3	1.5
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	14.20	18.93	23.18	24.43	24.21	24.70	25.07	3.1	0.4
Geothermal	1.29	1.19	2.07	2.88	4.81	5.83	6.06	3.0	5.2
Solar, wind, tide(2)	-	-	-	0.12	1.48	1.63	1.95	-	-
Coal	1.23	0.43	0.47	0.95	2.71	1.39	1.58	-5.9	6.0
Oil	1.70	0.04	0.01	-	0.01	0.00	0.00	-27.5	-7.4
Natural gas	0.12	1.67	5.65	9.21	8.80	9.79	8.41	27.1	1.9
Biofuels & waste	0.01	0.03	0.03	0.08	0.13	0.14	0.14	7.9	8.2
Autoproducers									
Gross production	0.28	0.31	0.85	1.58	1.32	1.39	1.29	7.2	2.0
- Hydro pumped storage	-	-	-	-	-	-	-	-	-
Total generation(1)	0.28	0.31	0.85	1.58	1.32	1.39	1.29	7.2	2.0
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	0.01	0.01	0.01	-	-
Geothermal	-	-	0.06	0.04	0.05	0.05	0.05	-	-0.3
Solar, wind, tide(2)	-	-	0.07	0.07	0.06	0.06	0.06	-	-0.3
Coal	-	-	0.20	0.60	0.59	0.67	0.59	-	5.3
Oil	-	-	-	-	-	-	-	-	-
Natural gas	-	0.03 e	0.06	0.36	0.14	0.13	0.11	-	2.7
Biofuels & waste	0.28	0.28	0.47	0.51	0.47	0.46	0.47	3.3	-0.1

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.

NEW ZEALAND

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)	-	28	18	3	2	2	-11.8
Fuel input (TJ)	-	585	391	52	48	43	-11.7
Electricity production (GWh)	-	52	35	5	4	4	-11.5
CHP Heat production (TJ)	-	-	-	-	-	-	-
Brown coal							
Fuel input (1000 t)	-	13	13	19	16	16	1.0
Fuel input (TJ)	-	185	185	256	226	216	0.7
Electricity production (GWh)	-	17	17	24	21	20	0.8
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)	-	1540	6518	6764	7772	6757	7.3
Electricity production (GWh)	-	128	543	564	648	563	7.3
CHP Heat production (TJ)	-	-	-	-	-	-	-
Petroleum products							
Fuel input (1000 t)	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Natural gas[2]							
Fuel input (TJ)	272	714	17466	17262	19405	18649	16.8
Electricity production (GWh)	30 e	60	1619	1431	1565	1540	16.7
CHP Heat production (TJ)	-	-	-	-	-	-	-
Wood and other solid waste							
Fuel input (TJ)	2876	4059	5162	3858	3977	4011	-0.1
Electricity production (GWh)	280	360	478	368	370	376	0.2
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)	-	1229	363	793	759	740	-2.4
Electricity production (GWh)	-	113	33	73	70	69	-2.3
CHP Heat production (TJ)	-	-	-	-	-	-	-
Total combustible fuels[3]							
Electricity production (GWh)	310	730	2725	2465	2678	2572	6.2
CHP Heat production (TJ)	-	-	-	-	-	-	-

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.

NORWAY

3. Summary electricity production and consumption [1]
(TWh)

	1973	1980	1990	2000	2005	2010	2011	2012e
Gross production	**73.1**	**84.1**	**121.8**	**143.0**	**138.0**	**123.6**	**128.1**	**147.8**
Nuclear	-	-	-	-	-	-	-	-
Hydro	72.9	84.0	121.4	142.3	136.5	117.2	122.1	142.9
of which:								
pumped storage production	*0.0*	*0.3*	*0.2*	*0.5*	*0.8*	*0.4*	*1.3*	*1.1*
Geothermal	-	-	-	-	-	-	-	-
Solar	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	0.0	0.5	0.9	1.3	1.6
Combustible fuels	0.2	0.1	0.3	0.6	0.9	5.5	4.7	3.3
Coal	*0.0*	*0.0*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*
Oil	*0.1*	*0.1*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*
Natural gas	*-*	*-*	*-*	*0.2*	*0.4*	*4.9*	*4.1*	*2.6*
Biofuels & waste	*-*	*-*	*0.2*	*0.3*	*0.4*	*0.5*	*0.5*	*0.5*
Other (e.g. fuel cells)	-	-	0.1 e	0.1 e	0.1	0.2	0.1	0.0
- Own use by power plant	0.5	0.9	1.0	0.7	0.6	0.6	0.6	..
Net production	**72.5**	**83.2**	**120.8**	**142.3**	**137.4**	**123.1**	**127.5**	**..**
Nuclear	..	-	-	-	-	-	-	..
Hydro	..	83.1	120.4	141.6	135.9	116.7	121.5	..
Geothermal	..	-	-	-	-	-	-	..
Solar	..	-	-	-	-	-	-	..
Tide, wave, ocean	..	-	-	-	-	-	-	..
Wind	..	-	-	0.0	0.5	0.9	1.3	..
Combustible fuels	..	0.1	0.3	0.6	0.9	5.4	4.6	..
Other (e.g. fuel cells)	..	-	0.1	0.1	0.1	0.2	0.1	..
- Used for heat pumps	-	-	0.0	0.0	0.1	0.2	0.2	0.2
- Used for electric boilers	-	-	0.3	0.4	0.6	0.7	0.6	0.6
- Used for pumped storage	0.0	0.5	0.3	0.7 e	1.1	0.6	1.8	1.5
+ Imports	0.1	2.0	0.3	1.5	3.7	14.7	11.3	4.2
- Exports	5.3	2.5	16.2	20.5	15.7	7.1	14.3	22.0
Electrical energy supplied	**67.3**	**82.2**	**104.3**	**122.2**	**123.5**	**129.2**	**122.0**	**..**
- Transmission & distr. losses	6.3	7.1	6.9	11.7	10.0	9.5	10.3	..
- Statistical difference	-	-	-	-	-	-	-	..
Total consumption	**61.0**	**75.1**	**97.4**	**110.5**	**113.5**	**119.7**	**111.7**	**..**
- Energy industry consumption[2]	0.2	0.3	0.6	1.0	2.8	6.3	6.3	..
Final consumption	**60.8**	**74.8**	**96.8**	**109.5**	**110.7**	**113.5**	**105.4**	**..**
Industry	37.2	39.9	45.8	51.6	52.0	44.5	44.0	..
Transport	0.5	0.7	0.7	0.6	0.6	0.7	0.7	..
Commercial & publ. serv.	6.6	11.0	19.4	20.6	22.0	26.3	23.1	..
Residential	16.0	22.5	30.3	34.6	34.0	39.8	35.4	..
Agriculture & fishing	0.5	0.7	0.7	2.1	2.1	2.2	2.1	..
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	**76.70**	**84.10**	**121.85**	**142.98**	**131.77**	**123.64**	**128.15**	**2.9**	**0.2**
- Hydro pumped storage	*0.05*	*0.35*	*0.24*	*0.47*	*0.79*	*0.40*	*1.26*	*10.6*	*8.3*
Total generation(1)	**76.65**	**83.75**	**121.61**	**142.51**	**130.98**	**123.24**	**126.89**	**2.9**	**0.2**
Main activity producers									
Gross production	65.66	72.53	109.00	127.83	122.26	113.59	118.62	3.2	0.4
- Hydro pumped storage	*0.05*	*0.35*	*0.23*	*0.40*	*0.77*	*0.38*	*1.24*	*10.3*	*8.4*
Total generation(1)	65.61	72.18	108.77	127.43	121.49	113.21	117.38	3.2	0.4
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	65.58	72.15	108.56	127.24	120.30	112.00	115.71	3.2	0.3
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide(2)	-	-	0.07	0.05	0.98	0.91	1.32	-	15.4
Coal	0.03	0.01	0.08	0.07	0.10	0.11	0.12	7.7	1.8
Oil	0.01	0.02	0.01	-	-	-	-	1.1	-
Natural gas	-	-	-	-	c	c	c	-	c
Biofuels & waste	-	-	0.06	0.06	0.11	0.20	0.23	-	6.7
Autoproducers									
Gross production	11.04	11.57	12.85	15.16	9.51	10.05	9.53	1.0	-1.4
- Hydro pumped storage	*-*	*-*	*0.01*	*0.07*	*0.02*	*0.02*	*0.02*	*-*	*3.4*
Total generation(1)	11.04	11.57	12.84	15.08	9.49	10.03	9.51	0.9	-1.4
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	11.01	11.47	12.59	14.57	4.98	4.75	5.10	0.8	-4.2
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide(2)	-	-	0.07	0.06	0.07	0.13	0.06	-	-1.0
Coal	-	-	-	-	-	-	-	-	-
Oil	0.03	0.10	-	0.01	0.03	0.03	0.03	-	-
Natural gas	-	-	-	0.21	4.23	4.87	4.06	-	-
Biofuels & waste	-	-	0.18	0.23	0.17	0.26	0.26	-	1.6

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.

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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 and patent fuel							
Fuel input (1000 t)	4	21	23	26	26	25	0.8
Fuel input (TJ)	121	578	652	735	735	735	1.2
Electricity production (GWh)	13	43	40	41	41	40	-0.3
CHP Heat production (TJ)	-	108	456	234	244	244	4.0
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)	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Natural gas[1]							
Fuel input (TJ)	-	-	-	c	c	c	c
Electricity production (GWh)	-	-	-	c	c	c	c
CHP Heat production (TJ)	-	-	-	c	c	c	c
Wood and other solid waste							
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Industrial waste							
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Municipal waste							
Fuel input (TJ)	-	1988	2390	3146	6880	8910	7.4
Electricity production (GWh)	-	58	60	99	185	216	6.5
CHP Heat production (TJ)	-	1421	1777	2520	5532	7244	8.1
Biogases and liquid biofuels							
Fuel input (TJ)	-	-	-	-	38	13	-
Electricity production (GWh)	-	-	-	-	6	2	-
CHP Heat production (TJ)	-	-	-	-	14	5	-
Total combustible fuels[2]							
Electricity production (GWh)	13	101	100	140	232	258	4.6
CHP Heat production (TJ)	-	1529	2233	2754	5790	7493	7.9

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.

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3. Summary electricity production and consumption [1]
(TWh)

	1973	1980	1990	2000	2005	2010	2011	2012e
Gross production	**84.3**	**121.9**	**136.3**	**145.2**	**156.9**	**157.7**	**163.5**	**162.0**
Nuclear	-	-	-	-	-	-	-	-
Hydro	1.9	3.3	3.3	4.1	3.8	3.5	2.8	2.5
of which:								
pumped storage production	*0.4*	*0.9*	*1.9*	*2.0*	*1.6*	*0.6*	*0.4*	*0.4*
Geothermal	-	-	-	-	-	-	-	-
Solar	-	-	-	-	-	-	-	0.0
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	0.0	0.1	1.7	3.2	4.7
Combustible fuels	82.5	118.6	133.0	141.1	153.0	152.5	157.6	154.9
Coal	*78.8*	*114.5*	*131.0*	*137.7*	*143.3*	*138.3*	*141.4*	*136.3*
Oil	*2.0*	*3.5*	*1.6*	*1.9*	*2.8*	*2.9*	*2.5*	*2.1*
Natural gas	*1.4*	*0.1*	*0.1*	*0.9*	*5.2*	*4.8*	*5.8*	*6.1*
Biofuels & waste	*0.3*	*0.4*	*0.3*	*0.6*	*1.7*	*6.5*	*7.9*	*10.4*
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
- Own use by power plant	7.8	11.7	12.9	13.0	13.3	14.2	14.7	..
Net production	**76.5**	**110.2**	**123.4**	**132.2**	**143.6**	**143.4**	**148.9**	**..**
Nuclear	..	-	-	-	-	-	-	..
Hydro	..	3.3	3.3	4.1	3.7	3.5	2.7	..
Geothermal	..	-	-	-	-	-	-	..
Solar	..	-	-	-	-	-	-	..
Tide, wave, ocean	..	-	-	-	-	-	-	..
Wind	..	-	-	0.0	0.1	1.7	3.2	..
Combustible fuels	..	106.9	120.1	128.1	139.7	138.3	143.0	..
Other (e.g. fuel cells)	..	-	-	-	-	-	-	..
- Used for heat pumps	-	-	-	-	-	0.1	0.1	0.1
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	0.6	1.2	2.6	2.8	2.2	0.8	0.6	0.6
+ Imports	2.0	4.2	10.4	3.3	5.0	6.3	6.8	9.8
- Exports	3.8	4.4	11.5	9.7	16.2	7.7	12.0	12.6
Electrical energy supplied	**74.2**	**108.7**	**119.8**	**123.1**	**130.2**	**141.2**	**142.9**	**..**
- Transmission & distr. losses	7.0	12.2	10.6	14.2	14.6	11.9	10.6	..
- Statistical difference	-	-	-	-	-	-	-	..
Total consumption	**67.2**	**96.5**	**109.2**	**108.8**	**115.6**	**129.3**	**132.3**	**..**
- Energy industry consumption[2]	8.9	11.5	13.0	10.2	10.2	10.3	10.3	..
Final consumption	**58.2**	**85.0**	**96.2**	**98.6**	**105.4**	**119.0**	**121.9**	**..**
Industry	38.1	52.1	42.7	40.5	41.3	41.8	44.6	..
Transport	3.5	4.8	5.5	4.7	4.0	3.3	3.3	..
Commercial & publ. serv.	7.2	9.6	19.3	27.8	33.4	43.6	44.3	..
Residential	5.5	10.7	20.2	21.0	25.3	28.6	28.3	..
Agriculture & fishing	2.2	5.4	8.5	4.8	1.5	1.6	1.6	..
Sector non specified	1.8	2.4	-	-	-	-	-	..

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	**91.60**	**121.87**	**136.31**	**145.18**	**151.72**	**157.66**	**163.55**	**2.5**	**0.9**
- Hydro pumped storage	*0.33*	*0.93*	*1.90*	*2.01*	*0.60*	*0.57*	*0.43*	*11.5*	*-6.8*
Total generation(1)	**91.27**	**120.94**	**134.42**	**143.17**	**151.12**	**157.09**	**163.12**	**2.4**	**0.9**
Main activity producers									
Gross production	81.92	111.53	128.21	137.95	144.84	149.69	155.21	2.8	0.9
- Hydro pumped storage	*0.33*	*0.93*	*1.90*	*2.01*	*0.60*	*0.57*	*0.43*	*11.5*	*-6.8*
Total generation(1)	81.59	110.60	126.31	135.94	144.24	149.12	154.78	2.8	1.0
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	2.12	2.35	1.42	2.10	2.37	2.92	2.33	-2.5	2.4
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide(2)	-	-	-	0.01	1.08	1.66	3.21	-	-
Coal	77.48	105.81	124.29	132.28	131.32	134.33	137.54	3.0	0.5
Oil	1.63	2.42	0.59	0.66	0.60	0.62	0.67	-6.1	0.6
Natural gas	0.36	0.02	0.01	0.82	4.54	4.42	4.89	-20.1	34.3
Biofuels & waste	-	-	0.01	0.07	4.33	5.18	6.14	-	34.6
Autoproducers									
Gross production	9.68	10.34	8.10	7.24	6.88	7.97	8.34	-1.1	0.1
- Hydro pumped storage	-	-	-	-	-	-	-	-	-
Total generation(1)	9.68	10.34	8.10	7.24	6.88	7.97	8.34	-1.1	0.1
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	-	-	0.00	0.00	0.00	0.00	0.00	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide(2)	-	-	-	-	-	-	-	-	-
Coal	8.71	8.74	6.76	5.38	3.37	3.94	3.90	-1.6	-2.6
Oil	0.52	1.07	0.98	1.25	2.13	2.27	1.78	4.0	2.9
Natural gas	0.13	0.12	0.12	0.11	0.25	0.38	0.93	-0.6	10.5
Biofuels & waste	0.33	0.41	0.25	0.48	1.13	1.37	1.72	-1.7	9.7

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 and patent fuel							
Fuel input (1000 t)	77529	59361	44514	41519	44072	43816	-1.4
Fuel input (TJ)	1480962	1211894	962652	903479	946890	933247	-1.2
Electricity production (GWh)	89226	75774	82419	83187	87941	87325	0.7
CHP Heat production (TJ)	440954	358447	174179	158836	162875	149024	-4.1
Brown coal							
Fuel input (1000 t)	33839	66565	59066	56026	55697	61769	-0.4
Fuel input (TJ)	264768	552146	505127	493666	477036	516650	-0.3
Electricity production (GWh)	24442	54587	53469	50234	48651	52529	-0.2
CHP Heat production (TJ)	4668	5442	8575	5137	5990	5507	0.1
Peat							
Fuel input (1000 t)	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Coal manufactured gases[1]							
Fuel input (TJ)	29821	25805	22064	25968	34967	33509	1.3
Electricity production (GWh)	879	684	1779	1275	1675	1589	4.1
CHP Heat production (TJ)	17492	16178	5373	7838	10709	10875	-1.9
Petroleum products							
Fuel input (1000 t)	2350	1288	451	514	571	515	-4.3
Fuel input (TJ)	95287	51947	18126	20810	23215	20914	-4.2
Electricity production (GWh)	3492	1570	1916	2723	2892	2453	2.1
CHP Heat production (TJ)	48006	31434	2856	3201	5225	5098	-8.3
Natural gas[1]							
Fuel input (TJ)	4976	3295	13914	45628	45178	52108	14.1
Electricity production (GWh)	144	125	928	4787	4798	5821	20.1
CHP Heat production (TJ)	2889	1607	3696	10824	11870	10681	9.4
Wood and other solid waste							
Fuel input (TJ)	9867	10408	2926	53147	64241	78121	10.1
Electricity production (GWh)	248	55	190	4904	5905	7149	26.1
CHP Heat production (TJ)	6094	8109	1347	8834	9889	12876	2.2
Industrial waste							
Fuel input (TJ)	5289	5172	3233	5090	5398	5666	0.4
Electricity production (GWh)	161	203	331	227	234	253	1.1
CHP Heat production (TJ)	3077	2902	754	1648	2139	2213	-1.3
Municipal waste							
Fuel input (TJ)	-	-	-	368	367	403	-
Electricity production (GWh)	-	-	-	9	10	10	-
CHP Heat production (TJ)	-	-	-	253	251	238	-
Biogases and liquid biofuels							
Fuel input (TJ)	-	-	-	3128	3647	4447	-
Electricity production (GWh)	-	-	-	323	399	453	-
CHP Heat production (TJ)	-	-	-	799	739	973	-
Total combustible fuels[2]							
Electricity production (GWh)	118592	132998	141032	147669	152505	157582	0.8
CHP Heat production (TJ)	523180	424119	196780	197370	209687	197485	-3.6

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.