

Renewables Information

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Corrigendum

Please note that despite our best efforts to ensure quality control, errors have slipped into Renewables Information 2016.

The text in pages 6, 7, 16, 17, 26, 27, 36, 37, 46, 47, 56, 57, 66, 67, 76, 77, 86, 87, 96, 97, 106, 107, 116, 117, 126, 127, 136, 137, 146, 147, 156, 157, 166, 167, 176, 177, 186, 187, 196, 197, 206, 207, 216, 217, 226, 227, 236, 237, 246, 247, 256, 257, 266, 267, 276, 277, 286, 287, 296, 297, 306, 307, 316, 317, 326, 327, 336, 337, 346, 347, 356, 357, 366, 367, 376, 377, 386, 387 has changed. It should be replaced by the following pages.

OECD TOTAL

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	4525.76	5299.94	5423.77	5287.08	5309.77	5273.27	5268.52	-0.0
of which: Renewables (Mtoe) ¹	270.72	318.97	421.72	460.40	486.40	494.85	507.96	3.2
Renewables/TPES(%)	6.0	6.0	7.8	8.7	9.2	9.4	9.6	3.2
GDP (billion 2005 US dollars)	29171.43	37956.87	44440.24	45774.16	46299.65	47107.38	48036.46	1.6
TPES/GDP ²	0.16	0.14	0.12	0.12	0.11	0.11	0.11	-1.6
TPES/GDP (year 2005 = 100)	119	107	93	88	88	86	84	-1.6
Population (millions)	1070.17	1153.92	1237.97	1252.77	1259.81	1266.94	1275.03	0.7
TPES/population (toe per capita)	4.23	4.59	4.38	4.22	4.21	4.16	4.13	-0.7
Electricity generation (TWh) ³	7666.2	9768.2	10890.9	10830.9	10836.1	10784.5	10762.0	0.6
of which: Renewables (TWh) ^{1,3}	1320.00	1516.69	1925.53	2166.02	2302.50	2381.64	2471.14	3.3
Renew./Total Elec.(%) ^{1,4}	17.2	15.5	17.7	20.0	21.2	22.1	23.0	2.6
Road energy consumption (Mtoe)	791.6	988.1	1058.6	1051.6	1056.6	1071.7	..	..
of which: Liquid biofuels (Mtoe)	0.01	4.03	38.93	47.58	49.37	50.27	..	..
Liq. biofuels/road tr.(%) ⁵	0.0	0.4	3.7	4.5	4.7	4.7	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	399983	470830	681063	794073	840636	888474	..	4.6
Hydro	375473	424373	455065	464153	468315	472236	..	0.8
Hydro <1MW	956	3141	3246	3469	3558	3548	..	0.9
Hydro 1-10MW	5532	16806	20260	21215	21622	21943	..	1.9
Hydro 10+MW	95785	245751	324206	329345	333081	335629	..	2.3
Mixed plants	19064	21160	41044	41650	41563	41787	..	5.0
Pure pumped storage	..	68600	66308	68475	68489	69329	..	..
Geothermal	4463	5393	6069	6254	6512	6704	..	1.6
Solar photovoltaic	..	757	37403	87439	110456	132933	..	..
Solar thermal	339	419	1210	2481	3676	3972	..	17.4
Tide, wave, ocean	260	261	263	264	519	520	..	5.0
Wind	2369	15390	134006	179685	194791	213919	..	20.7
Industrial waste	..	1791	2397	2455	2442	2588	..	..
Municipal waste	..	6762	10355	10560	11459	11375	..	..
Solid biofuels	..	13280	24842	27594	28691	29205	..	..
Biogases	..	2404	8202	11145	11756	12856	..	..
Liquid biofuels	-	-	1251	2043	2019	2166	..	-
Solar collectors surface (1000 m ²)	22493	46445	96766	112842	119039	122947	..	7.2
Cap. of solar collectors (MW _{th}) ⁶	15747	32513	67738	78994	83332	86067	..	7.2

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

OECD TOTAL

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	39.42 e	39.21 e	36.26 e	34.02 e	32.65 e	32.67 e	31.95 e
Hydro	37.24 e	37.95 e	35.81 e	35.61	35.73	35.97	35.37
<i>of which: <1MW</i>	18.59 e	41.83	36.83 e	41.47	36.96 e	40.42 e	41.36
<i>of which: 1-10MW</i>	26.56 e	37.73	41.05 e	41.04	35.41 e	41.03 e	39.64
<i>of which: 10+MW</i>	60.39 e	41.27	43.36	44.65	45.49 e	45.34 e	44.60
Geothermal	73.19	69.80	83.42 e	81.75	81.46	80.72	82.36
Solar photovoltaic	11.48	10.93 e	9.50 e	9.42 e	11.41 e	12.01 e	12.64 e
Solar thermal	22.33	14.33	17.55	15.50	21.79 e	17.97 e	23.41
Tide, wave and ocean	23.21	23.59 e	22.34	21.97	21.14	20.20	21.75
Wind	18.53	21.16 e	20.48 e	22.89	24.17	26.18	26.03
Industrial waste	87.77 e	81.43 e	103.21 e	39.38	44.99 e	41.29	38.44
Municipal waste	58.96 e	54.86 e	55.89 e	61.10 e	62.59 e	58.12 e	62.25 e
Solid biofuels	88.39 e	72.76 e	67.76 e	69.54	68.31	68.03	69.37
Biogases	67.66 e	62.31 e	50.89 e	62.76	65.22	69.60	68.28
Biodiesels	-	-	-	-	17.83	16.29	16.25
Other liquid biofuels	-	-	29.32	46.24	21.37	25.38	29.60

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

OECD AMERICAS

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	2264.03	2702.13	2685.68	2654.35	2685.05	2720.15	2678.13	-0.1
<i>of which: Renewables (Mtoe)</i> ¹	151.39	169.77	190.79	212.21	225.45	227.92	224.35	1.9
<i>Renewables/TPES(%)</i>	6.7	6.3	7.1	8.0	8.4	8.4	8.4	1.9
GDP (billion 2005 US dollars)	10772.57	15069.88	17845.30	18613.31	18907.86	19364.02	19809.42	1.8
TPES/GDP ²	0.21	0.18	0.15	0.14	0.14	0.14	0.14	-1.9
TPES/GDP (year 2005 = 100)	128	109	92	87	87	86	82	-1.9
Population (millions)	378.12	429.38	475.16	483.76	488.03	492.27	496.66	1.0
TPES/population (toe per capita)	5.99	6.29	5.65	5.49	5.50	5.53	5.39	-1.0
Electricity generation (TWh) ³	3819.1	4877.2	5286.2	5280.7	5318.2	5350.5	5305.1	0.6
<i>of which: Renewables (TWh)</i> ^{1,3}	708.43	757.55	876.81	977.54	1023.75	1054.78	1052.81	2.2
<i>Renew./Total Elec.(%)</i> ^{1,4}	18.5	15.5	16.6	18.5	19.3	19.7	19.8	1.6
Road energy consumption (Mtoe)	454.2	569.0	620.7	622.5	626.5	638.3	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	3.32	25.36	32.83	35.63	35.65	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	0.6	4.1	5.3	5.7	5.6	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	..	199111	258556	290073	300395	313214	..	..
Hydro	162257	180371	193166	194261	194853	196541	..	0.6
<i>Hydro <1MW</i>	1	637	72	78	78	72	..	-14.4
<i>Hydro 1-10MW</i>	48	5769	3914	4096	4204	4373	..	-2.0
<i>Hydro 10+MW</i>	10467	87036	158183	158917	159380	160807	..	4.5
<i>Mixed plants</i>	-	-	12308	12332	12331	12339	..	-
<i>Pure pumped storage</i>	..	19699	18688	18839	18860	18950	..	..
Geothermal	3369	3648	3370	3416	3430	3327	..	-0.7
Solar photovoltaic	..	197	3159	8958	13051	17062	..	..
Solar thermal	339	419	473	476	1371	1667	..	10.4
Tide, wave, ocean	20	20	20	20	20	20	..	-
Wind	1915	2486	43784	67293	70197	77226	..	27.8
Industrial waste	..	638	529	393	632	627	..	..
Municipal waste	..	2641	2255	2280	2305	2307	..	..
Solid biofuels	..	7699	9824	10515	11929	11675	..	..
Biogases	..	992	1793	2257	2452	2607	..	..
Liquid biofuels	-	-	183	204	155	155	..	-
Solar collectors surface (1000 m ²)	18530	19768	28286	31311	32622	33986	..	3.9
<i>Cap. of solar collectors (MW_{th})</i> ⁶	12971	13838	19800	21919	22836	23790	..	3.9

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

OECD AMERICAS

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	46.66 e	45.87 e	45.28 e	40.40 e	39.86 e	40.20 e	39.69 e
Hydro	43.49	43.69 e	43.67	41.17	42.94	42.75	42.17
<i>of which: <1MW</i>	-	43.17	76.49 e	52.59	48.77	55.03	39.47
<i>of which: 1-10MW</i>	33.30	24.84	51.36	37.45	33.38	33.26	30.78
<i>of which: 10+MW</i>	35.19	38.02	47.51	47.58	50.17	49.97	49.26
Geothermal	71.62	64.22	84.70	81.96	80.04	81.51	84.78
Solar photovoltaic	9.13	11.91 e	11.93 e	11.60 e	12.20 e	14.41 e	16.31 e
Solar thermal	22.33	14.33	17.53	21.20	23.00 e	8.44 e	18.41
Tide, wave and ocean	14.84	18.26 e	15.94	15.96	15.64	8.55	8.93
Wind	18.28	27.24 e	23.64	27.49	26.69	31.29	31.68
Industrial waste	99.94 e	128.29	142.34	77.57	107.58	59.29	52.74
Municipal waste	60.79 e	72.96	89.20	85.22	86.07	82.99	83.41
Solid biofuels	94.36 e	77.91 e	73.45 e	61.98	61.50	57.05	60.75
Biogases	86.03 e	68.53 e	64.82	68.24	63.62	64.77	64.64
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	36.30	5.89	10.86	14.19	15.29

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

OECD ASIA OCEANIA

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	642.29	849.59	917.84	885.17	887.48	878.65	886.38	0.3
<i>of which: Renewables (Mtoe)</i> ¹	25.62	28.81	36.04	36.15	39.16	42.91	45.12	3.0
<i>Renewables/TPES(%)</i>	4.0	3.4	3.9	4.1	4.4	4.9	5.1	2.7
GDP (billion 2005 US dollars)	5766.65	7039.12	8267.33	8510.64	8664.81	8746.01	8852.85	1.5
TPES/GDP ²	0.11	0.12	0.11	0.10	0.10	0.10	0.10	-1.2
TPES/GDP (year 2005 = 100)	98	107	98	92	90	89	88	-1.2
Population (millions)	191.68	203.13	211.58	212.76	213.34	213.85	214.35	0.4
TPES/population (toe per capita)	3.35	4.18	4.34	4.16	4.16	4.11	4.14	-0.1
Electricity generation (TWh) ³	1185.4	1668.4	1992.3	1945.2	1950.9	1934.0	1911.9	0.9
<i>of which: Renewables (TWh)</i> ^{1,3}	145.28	148.99	181.02	184.27	203.92	226.20	243.34	3.3
<i>Renew./Total Elec.(%)</i> ^{1,4}	12.3	8.9	9.1	9.5	10.5	11.7	12.7	2.4
Road energy consumption (Mtoe)	94.3	126.9	128.8	131.0	131.8	129.9	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	0.51	0.55	0.59	0.61	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	0.4	0.4	0.4	0.5	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	54051	67225	81026	89934	98923	112553	..	3.7
Hydro	53110	63867	67294	69431	68695	69385	..	0.6
<i>Hydro <1MW</i>	1	10	38	31	31	32	..	8.7
<i>Hydro 1-10MW</i>	1427	1671	4726	4657	4622	4558	..	7.4
<i>Hydro 10+MW</i>	26778	34791	32516	32559	31856	32006	..	-0.6
<i>Mixed plants</i>	-	-	5625	5625	5625	5625	..	-
<i>Pure pumped storage</i>	18945	27395	24389	26559	26559	27164	..	-0.1
Geothermal	531	951	1268	1243	1325	1487	..	3.2
Solar photovoltaic	2	359	4737	10329	18897	30524	..	37.3
Solar thermal	-	-	3	3	3	3	..	-
Tide, wave, ocean	-	-	2	1	256	256	..	-
Wind	-	160	5070	6216	7071	7851	..	32.1
Industrial waste	-	-	21	15	7	74	..	-
Municipal waste	-	1333	1540	1587	1576	1600	..	1.3
Solid biofuels	389	448	720	720	723	719	..	3.4
Biogases	19	107	371	389	370	409	..	10.1
Liquid biofuels	-	-	-	-	-	245	..	-
Solar collectors surface (1000 m ²)	-	7500	21102	22669	23521	23625	..	8.5
<i>Cap. of solar collectors (MW_{th})</i> ⁶	-	5250	14772	15869	16466	16539	..	8.5

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

OECD ASIA OCEANIA

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	32.73	27.62 e	25.09 e	27.51	25.39	25.27	24.46
Hydro	30.15	25.67	22.90	22.98	21.10	22.38	22.63
<i>of which: <1MW</i>	21.88	26.67	40.76	41.64	48.84 e	53.68 e	52.96
<i>of which: 1-10MW</i>	57.45	52.45	50.53	42.22	42.57 e	43.48 e	45.05
<i>of which: 10+MW</i>	42.01	32.14	36.14	37.40	34.68 e	37.94 e	38.93
Geothermal	83.25	75.26	75.30	76.79	80.85	77.64	75.51
Solar photovoltaic	12.79	12.39 e	12.15 e	12.20 e	12.15 e	12.21 e	12.26 e
Solar thermal	-	-	-	13.74	7.63	11.42	14.49
Tide, wave and ocean	-	-	-	-	-	21.57	21.95
Wind	-	21.59	17.28	25.83	26.98	24.90	27.13
Industrial waste	-	-	636.42 e	536.19	1532.13	3220.27	323.96
Municipal waste	-	0.31 e	0.88 e	29.72 e	26.53 e	29.08 e	37.03 e
Solid biofuels	313.41	289.44 e	301.31 e	443.45	460.37	484.45	499.49
Biogases	84.07	60.81	32.36	55.69	73.71	76.98	72.57
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	25.01

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

OECD EUROPE

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	1619.45	1748.23	1820.24	1747.56	1737.24	1674.47	1704.00	-0.2
of which: Renewables (Mtoe) ¹	93.72	120.39	194.89	212.04	221.79	224.02	238.49	4.7
Renewables/TPES(%)	5.8	6.9	10.7	12.1	12.8	13.4	14.0	4.8
GDP (billion 2005 US dollars)	12632.22	15847.87	18327.61	18650.22	18726.98	18997.36	19374.19	1.3
TPES/GDP ²	0.13	0.11	0.10	0.09	0.09	0.09	0.09	-1.5
TPES/GDP (year 2005 = 100)	121	104	94	88	87	83	83	-1.5
Population (millions)	500.37	521.42	551.23	556.26	558.44	560.82	564.02	0.5
TPES/population (toe per capita)	3.24	3.35	3.30	3.14	3.11	2.99	3.02	-0.7
Electricity generation (TWh) ³	2661.7	3222.6	3612.4	3604.9	3567.0	3499.9	3545.0	0.6
of which: Renewables (TWh) ^{1,3}	466.30	610.16	867.70	1004.21	1074.83	1100.66	1174.98	4.5
Renew./Total Elec.(%) ^{1,4}	17.5	18.9	24.0	27.9	30.1	31.4	33.1	3.8
Road energy consumption (Mtoe)	243.1	292.2	309.0	298.1	298.3	303.4	..	..
of which: Liquid biofuels (Mtoe)	0.01	0.71	13.06	14.19	13.15	14.01	..	..
Liq. biofuels/road tr.(%) ⁵	0.0	0.2	4.2	4.8	4.4	4.6	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	166268	204494	341481	414066	441318	462707	..	6.0
Hydro	160106	180135	194605	200461	204767	206310	..	1.0
Hydro <1MW	954	2494	3136	3360	3449	3444	..	2.3
Hydro 1-10MW	4057	9366	11620	12462	12796	13012	..	2.4
Hydro 10+MW	58540	123924	133507	137869	141845	142816	..	1.0
Mixed plants	19064	21160	23111	23693	23607	23823	..	0.9
Pure pumped storage	19072	21506	23231	23077	23070	23215	..	0.5
Geothermal	563	794	1431	1595	1757	1890	..	6.4
Solar photovoltaic	13	201	29507	68152	78508	85347	..	54.1
Solar thermal	-	-	734	2002	2302	2302	..	-
Tide, wave, ocean	240	241	241	243	243	244	..	0.1
Wind	454	12744	85152	106176	117523	128842	..	18.0
Industrial waste	459	1153	1847	2047	1803	1887	..	3.6
Municipal waste	1142	2788	6560	6693	7578	7468	..	7.3
Solid biofuels	3028	5133	14298	16359	16039	16811	..	8.8
Biogases	263	1305	6038	8499	8934	9840	..	15.5
Liquid biofuels	-	-	1068	1839	1864	1766	..	-
Solar collectors surface (1000 m ²)	3963	19177	47378	58862	62896	65336	..	9.2
Cap. of solar collectors (MW _{th}) ⁶	2776	13425	33166	41206	44030	45738	..	9.2

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

OECD EUROPE

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	33.77 e	36.54 e	31.81 e	30.74 e	29.17 e	29.20 e	28.53 e
Hydro	33.25 e	36.56 e	32.45 e	34.45	33.82	34.07	33.18
<i>of which: <1MW</i>	18.61 e	41.55	35.96 e	41.21	36.58 e	39.98 e	41.29
<i>of which: 1-10MW</i>	15.62 e	43.04	36.40 e	41.77	33.40 e	42.70 e	40.73
<i>of which: 10+MW</i>	73.30 e	46.12	40.09	42.94	42.64 e	41.80 e	40.63
Geothermal	73.12	88.91	87.39 e	85.64	84.98	81.50	83.49
Solar photovoltaic	12.18	7.35 e	7.25 e	8.73 e	11.19 e	11.56 e	12.05 e
Solar thermal	-	-	-	11.84	21.53 e	23.65 e	27.05
Tide, wave and ocean	23.91	24.03 e	22.88	22.65	21.68	19.71	22.59
Wind	19.58	19.96 e	19.92 e	20.34	22.42	23.21	22.57
Industrial waste	73.50 e	54.56 e	66.27 e	22.79	22.07 e	22.64	22.50
Municipal waste	55.74 e	63.80 e	58.19 e	60.17 e	63.15 e	56.60 e	61.12 e
Solid biofuels	41.99 e	46.12 e	49.40 e	55.91	55.44	57.42	56.96
Biogases	43.15 e	57.71 e	47.32 e	61.57	65.25	70.62	69.06
Biodiesels	-	-	-	-	17.83	16.29	16.25
Other liquid biofuels	-	-	28.66	53.15	22.54	26.32	31.51

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

IEA TOTAL

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	4368.63	5097.01	5182.22	5021.20	5043.10	5013.95	5009.54	-0.1
<i>of which: Renewables (Mtoe)</i> ¹	249.33	291.94	392.67	427.39	451.67	461.73	475.52	3.3
<i>Renewables/TPES(%)</i>	5.7	5.7	7.6	8.5	9.0	9.2	9.5	3.4
GDP (billion 2005 US dollars)	28344.11	36725.34	42877.20	44082.34	44574.07	45343.04	46229.08	1.5
TPES/GDP ²	0.15	0.14	0.12	0.11	0.11	0.11	0.11	-1.6
TPES/GDP (year 2005 = 100)	119	107	93	88	87	85	84	-1.6
Population (millions)	963.01	1029.06	1096.63	1107.98	1113.33	1118.79	1125.22	0.6
TPES/population (toe per capita)	4.54	4.95	4.73	4.53	4.53	4.48	4.45	-0.7
Electricity generation (TWh) ³	7494.1	9458.5	10463.0	10357.8	10370.4	10313.1	10281.6	0.6
<i>of which: Renewables (TWh)</i> ^{1,3}	1274.05	1444.89	1833.51	2075.88	2213.10	2272.74	2369.24	3.4
<i>Renew./Total Elec.(%)</i> ^{1,4}	17.0	15.3	17.5	20.0	21.3	22.0	23.0	2.8
Road energy consumption (Mtoe)	758.1	943.3	995.2	986.8	992.2	1007.1	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	0.01	4.03	38.88	47.53	49.30	50.22	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	0.0	0.4	3.9	4.8	5.0	5.0	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	387202	453414	657510	767940	812950	858632	..	4.7
Hydro	363446	408383	434857	443397	447295	450104	..	0.7
<i>Hydro <1MW</i>	955	3032	3110	3329	3413	3403	..	0.8
<i>Hydro 1-10MW</i>	5484	16568	20005	20907	21262	21478	..	1.9
<i>Hydro 10+MW</i>	85318	230108	304569	309217	312746	314287	..	2.3
<i>Mixed plants</i>	19064	21160	41044	41650	41563	41787	..	5.0
<i>Pure pumped storage</i>	38203	68600	66128	68295	68309	69149	..	0.1
Geothermal	3717	4366	4529	4765	5024	5226	..	1.3
Solar photovoltaic	..	743	37292	87005	109706	131688	..	..
Solar thermal	339	419	1210	2481	3591	3972	..	17.4
Tide, wave, ocean	260	261	263	264	519	520	..	5.0
Wind	2366	15373	133318	177662	192356	210606	..	20.6
Industrial waste	..	1791	2379	2370	2386	2544	..	..
Municipal waste	..	6762	10355	10560	11459	11375	..	..
Solid biofuels	..	12922	23899	26326	26943	27722	..	..
Biogases	..	2394	8157	11067	11653	12710	..	..
Liquid biofuels	-	-	1251	2043	2018	2165	..	-
Solar collectors surface (1000 m ²)	22493	42572	90904	106381	112284	115883	..	7.4
<i>Cap. of solar collectors (MW_{th})</i> ⁶	15747	29802	63634	74470	78603	81122	..	7.4

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

IEA TOTAL

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	39.37 e	38.91 e	35.91 e	33.64 e	32.41 e	32.52 e	31.60 e
Hydro	37.23 e	37.71 e	35.59 e	35.26	35.64	35.99	35.05
<i>of which: <1MW</i>	18.56 e	42.57	37.23	42.32	37.73	41.19	42.03
<i>of which: 1-10MW</i>	26.31 e	37.64	41.04 e	40.92	35.30	41.01	39.86
<i>of which: 10+MW</i>	62.54 e	41.07	43.48	44.73	45.98	45.97	44.75
Geothermal	71.22	67.33	82.71 e	81.61	80.50	78.92	81.11
Solar photovoltaic	14.55	11.03 e	9.51 e	9.41 e	11.39 e	12.00 e	12.60 e
Solar thermal	22.33	14.33	17.55	15.50	21.79	18.39	23.41
Tide, wave and ocean	23.21	23.59 e	22.34	21.97	21.14	20.20	21.75
Wind	18.55	21.17 e	20.48 e	22.87	24.19	26.23	26.01
Industrial waste	87.77 e	81.43 e	103.35 e	39.43	45.29 e	41.55	38.73
Municipal waste	58.96 e	54.86 e	55.89 e	61.10 e	62.59 e	58.12 e	62.25 e
Solid biofuels	87.50 e	72.43 e	66.65 e	70.85	69.12	69.54	70.36
Biogases	67.66 e	62.44 e	50.90 e	62.76	65.29	69.84	68.71
Biodiesels	-	-	-	-	17.83	16.60	14.60
Other liquid biofuels	-	-	29.32	46.24	21.37	25.38	29.60

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

AUSTRALIA

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	86.38	108.10	127.63	126.75	126.47	125.24	130.60	1.3
<i>of which: Renewables (Mtoe)</i> ¹	5.07	6.35	7.02	7.03	7.86	8.18	8.54	2.0
<i>Renewables/TPES(%)</i>	5.9	5.9	5.5	5.5	6.2	6.5	6.5	0.7
GDP (billion 2005 US dollars)	673.27	953.71	1293.20	1372.88	1407.20	1438.97	1474.64	2.9
TPES/GDP ²	0.13	0.11	0.10	0.09	0.09	0.09	0.09	-1.6
TPES/GDP (year 2005 = 100)	128	113	98	92	90	87	88	-1.6
Population (millions)	17.17	19.12	22.14	22.88	23.27	23.64	23.93	1.5
TPES/population (toe per capita)	5.03	5.65	5.76	5.54	5.43	5.30	5.46	-0.2
Electricity generation (TWh) ³	154.3	209.9	252.7	251.1	249.6	248.3	248.6	1.1
<i>of which: Renewables (TWh)</i> ^{1,3}	14.90	17.59	21.76	26.60	33.11	37.01	34.00	4.5
<i>Renew./Total Elec.(%)</i> ^{1,4}	9.7	8.4	8.6	10.6	13.3	14.9	13.7	3.3
Road energy consumption (Mtoe)	18.7	22.3	25.3	26.1	26.5	26.5	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	0.17	0.21	0.23	0.23	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	0.7	0.8	0.9	0.9	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	8653	9681	11865	14614	15334	16677	..	4.0
Hydro	8321	9201	8773	8790	8037	8048	..	-1.0
<i>Hydro <1MW</i>	1	3	8	8	7	7	..	6.2
<i>Hydro 1-10MW</i>	49	49	172	175	157	157	..	8.7
<i>Hydro 10+MW</i>	7331	7659	7853	7867	7133	7144	..	-0.5
<i>Mixed plants</i>	-	-	-	-	-	-	-	-
<i>Pure pumped storage</i>	940	1490	740	740	740	740	..	-4.9
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	25	399	2432	3255	4004	..	43.7
Solar thermal	-	-	3	3	3	3	..	-
Tide, wave, ocean	-	-	1	1	1	1	..	-
Wind	-	33	1864	2561	3221	3797	..	40.3
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-	-
Solid biofuels	332	332	597	597	597	598	..	4.3
Biogases	-	90	228	230	220	226	..	6.8
Liquid biofuels	-	-	-	-	-	-	-	-
Solar collectors surface (1000 m ²)	-	2743 e	8892 e	10082 e	10885 e	10957	..	10.4
<i>Cap. of solar collectors (MW_{th})</i> ⁶	-	1920 e	6224 e	7057 e	7620 e	7670	..	10.4

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

AUSTRALIA

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	20.62	21.17	23.10	20.98	20.82	24.72	25.36
Hydro	20.41	20.74	20.88	17.63	18.29	25.95	26.13
<i>of which: <1MW</i>	21.88	24.22	22.42	19.15	19.90	29.46	29.80
<i>of which: 1-10MW</i>	21.88	24.22	22.42	19.26	19.67	28.40	28.74
<i>of which: 10+MW</i>	21.88	24.22	22.42	19.19	19.90	28.43	28.72
Geothermal	-	-	-	-	-	-	-
Solar photovoltaic	-	17.22	17.12	12.05	12.00	13.41	13.84
Solar thermal	-	-	-	13.74	7.63	11.42	14.49
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	-	20.06	13.65	30.94	31.07	28.21	30.82
Industrial waste	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-
Solid biofuels	25.79	23.55	75.11	33.69	27.14	29.64	35.83
Biogases	-	56.95	25.54	50.85	80.63	83.04	82.57
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

AUSTRIA

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	24.88	28.61	33.88	32.77	33.23	32.16	32.84	0.9
<i>of which: Renewables (Mtoe)</i> ¹	5.04	6.57	9.18	9.78	9.95	9.79	9.59	2.6
<i>Renewables/TPES(%)</i>	20.3	23.0	27.1	29.9	29.9	30.4	29.2	1.6
GDP (billion 2005 US dollars)	259.41	336.02	390.21	404.21	405.51	406.94	410.45	1.3
TPES/GDP ²	0.10	0.09	0.09	0.08	0.08	0.08	0.08	-0.4
TPES/GDP (year 2005 = 100)	104	93	95	88	89	86	87	-0.4
Population (millions)	7.68	8.01	8.36	8.43	8.48	8.54	8.57	0.4
TPES/population (toe per capita)	3.24	3.57	4.05	3.89	3.92	3.76	3.83	0.5
Electricity generation (TWh) ³	49.3	59.9	67.9	68.7	64.5	61.6	61.8	0.2
<i>of which: Renewables (TWh)</i> ^{1,3}	32.64	43.44	44.98	51.22	50.34	49.97	47.21	0.6
<i>Renew./Total Elec.(%)</i> ^{1,4}	66.2	72.5	66.2	74.5	78.0	81.1	76.4	0.3
Road energy consumption (Mtoe)	4.4	5.9	7.6	7.4	7.7	7.6	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	0.01	0.02	0.49	0.49	0.49	0.59	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	0.1	0.3	6.5	6.6	6.3	7.7	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	11392	12555	16557	17537	17761	18277	..	2.7
Hydro	10947	11613	12706	13076	13149	13293	..	1.0
<i>Hydro <1MW</i>	-	265	357	391	401	408	..	3.1
<i>Hydro 1-10MW</i>	-	542	762	793	808	831	..	3.1
<i>Hydro 10+MW</i>	-	6869	6794	6784	6829	6821	..	-0.1
<i>Mixed plants</i>	3919	3937	4793	5108	5111	5233	..	2.1
<i>Pure pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	1	1	1	1	..	-
Solar photovoltaic	-	5	154	363	626	785	..	43.5
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	50	981	1316	1645	2086	..	30.5
Industrial waste	39	71	302	295	369	436	..	13.8
Municipal waste	6	12	479	424	483	524	..	31.0
Solid biofuels	400	780	1589	1672	1289	959	..	1.5
Biogases	-	24	330	377	194	192	..	16.0
Liquid biofuels	-	-	15	13	5	1	..	-
Solar collectors surface (1000 m ²)	461	2202	4441	4929	5058	5059	..	6.1
<i>Cap. of solar collectors (MW_{th})</i> ⁶	323	1541	3109	3450	3541	3541	..	6.1

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

AUSTRIA

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	33.76	40.86	34.15	33.63	36.39	35.23	34.03
Hydro	33.90	42.48	38.29	37.34	41.65	39.74	38.50
<i>of which: <1MW</i>	-	40.89	33.74	51.94	56.11	56.17	56.19
<i>of which: 1-10MW</i>	-	62.21	51.75	50.12	55.48	53.46	55.89
<i>of which: 10+MW</i>	-	62.01	55.91	56.11	64.01	60.61	58.45
Geothermal	-	-	13.14	15.96	7.73	3.49	4.38
Solar photovoltaic	-	7.37	8.00	6.58	10.61	10.62	11.42
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	-	15.24	19.54	24.02	21.36	21.88	21.05
Industrial waste	11.16	10.94	10.90	11.51	17.98	11.43	7.74
Municipal waste	50.48	86.51	10.47	12.31	15.26	14.36	14.76
Solid biofuels	31.84	21.00	19.68	25.66	25.44	32.76	40.91
Biogases	-	29.01	16.00	22.35	19.34	37.12	36.63
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	12.89	23.13	0.36	0.60	1.47

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

BELGIUM

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	47.94	58.12	60.36	53.82	55.77	52.77	52.85	-0.6
<i>of which: Renewables (Mtoe)</i> ¹	0.48	0.64	2.80	3.35	3.48	3.36	3.32	11.6
<i>Renewables/TPES(%)</i>	1.0	1.1	4.6	6.2	6.2	6.4	6.3	12.3
GDP (billion 2005 US dollars)	330.54	412.51	483.55	493.02	493.03	499.42	506.28	1.4
TPES/GDP ²	0.15	0.14	0.12	0.11	0.11	0.11	0.10	-2.0
TPES/GDP (year 2005 = 100)	112	109	97	85	88	82	81	-2.0
Population (millions)	9.97	10.25	10.88	11.05	11.11	11.16	11.23	0.6
TPES/population (toe per capita)	4.81	5.67	5.55	4.87	5.02	4.73	4.70	-1.2
Electricity generation (TWh) ³	70.3	82.8	93.8	81.6	82.2	71.5	67.0	-1.4
<i>of which: Renewables (TWh)</i> ^{1,3}	0.56	1.04	6.49	10.46	11.62	12.17	13.95	18.9
<i>Renew./Total Elec.(%)</i> ^{1,4}	0.8	1.3	6.9	12.8	14.1	17.0	20.8	20.5
Road energy consumption (Mtoe)	6.5	7.7	8.8	8.1	8.0	8.3	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	0.36	0.36	0.34	0.40	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	4.1	4.4	4.2	4.8	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	1605 e	1730 e	4482	6605	7293	7465	..	11.0
Hydro	1401	1413	1425	1427	1429	1429	..	0.1
<i>Hydro <1MW</i>	6	6	9	10	9	9	..	2.9
<i>Hydro 1-10MW</i>	49	54	54	55	55	55	..	0.1
<i>Hydro 10+MW</i>	39	43	55	55	55	55	..	1.8
<i>Mixed plants</i>	-	-	-	-	-	-	-	-
<i>Pure pumped storage</i>	1307	1310	1307	1307	1310	1310	..	-
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	904	2581	2922	3024	..	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	5	14	912	1370	1792	1930	..	42.2
Industrial waste	120 e	139	111	130	62	60	..	-5.8
Municipal waste	52 e	97	253	223	247	247	..	6.9
Solid biofuels	26 e	47	640	678	640	553	..	19.3
Biogases	1 e	20 e	115	141	151	172	..	16.6
Liquid biofuels	-	-	122	55	50	50	..	-
Solar collectors surface (1000 m ²)	34	41	371	527	570	615	..	21.3
<i>Cap. of solar collectors (MW_{th})</i> ⁶	24	29	260	369	399	431	..	21.3

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

BELGIUM

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	11.57 e	20.13 e	20.53 e	23.46	22.57	22.35	22.44
Hydro	7.31	13.73	12.97 e	13.36	13.27	13.77	12.04
of which: <1MW	-	36.15	25.35	28.37	27.40	32.88	29.80
of which: 1-10MW	-	49.89	42.46 e	34.35	37.78	43.06	35.04
of which: 10+MW	-	54.42	23.66	26.30	31.35	30.49	17.02
Geothermal	-	-	-	-	-	-	-
Solar photovoltaic	-	-	7.65	7.08	9.50	10.33	10.88
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	15.98	13.05	15.52 e	16.18	22.92	23.49	27.29
Industrial waste	21.97 e	31.62	14.84	52.43	50.19	91.40	78.12
Municipal waste	76.84 e	81.09	69.79 e	65.00	73.20	68.24	77.30
Solid biofuels	59.27 e	39.83	37.28 e	51.79	62.04	59.83	54.32
Biogases	79.91 e	55.94 e	45.50 e	56.31	53.72	58.50	57.67
Biodiesels	-	-	-	-	19.47	15.08	11.29
Other liquid biofuels	-	-	9.72	25.14	34.13	33.04	23.30

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

CANADA

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	211.29	253.62	264.85	268.46	271.67	279.88	272.46	0.5
<i>of which: Renewables (Mtoe)</i> ¹	36.33	44.58	43.56	47.84	50.20	50.13	49.70	0.7
<i>Renewables/TPES(%)</i>	17.2	17.6	16.4	17.8	18.5	17.9	18.2	0.2
GDP (billion 2005 US dollars)	1014.07	1342.74	1613.46	1693.19	1730.75	1773.55	1792.67	1.9
TPES/GDP ²	0.21	0.19	0.16	0.16	0.16	0.16	0.15	-1.4
TPES/GDP (year 2005 = 100)	117	106	92	89	88	89	85	-1.4
Population (millions)	27.69	30.69	34.01	34.75	35.15	35.54	35.89	1.0
TPES/population (toe per capita)	7.63	8.27	7.79	7.73	7.73	7.87	7.59	-0.6
Electricity generation (TWh) ³	482.0	605.6	595.8	632.8	660.7	656.1	631.5	0.3
<i>of which: Renewables (TWh)</i> ^{1,3}	300.69	366.99	366.09	396.94	416.35	412.04	414.29	0.8
<i>Renew./Total Elec.(%)</i> ^{1,4}	62.4	60.6	61.4	62.7	63.0	62.8	65.6	0.5
Road energy consumption (Mtoe)	33.1	39.3	47.9	48.4	49.6	49.7	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	0.13	1.17	1.73	1.83	1.87	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	0.3	2.4	3.6	3.7	3.8	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	60335	68871	81010	84184	86228	88754	..	1.8
Hydro	59381	67407 e	75078	75537	75537	75537	..	0.8
<i>Hydro <1MW</i>	-	-	27	27	27	27	..	-
<i>Hydro 1-10MW</i>	-	-	974	1086	1086	1086	..	-
<i>Hydro 10+MW</i>	-	-	73900	74250	74250	74250	..	-
<i>Mixed plants</i>	-	-	-	-	-	-	-	-
<i>Pure pumped storage</i>	186	177 e	177	174	174	174	..	-0.1
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	7	221	766	1210	1843	..	48.9
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	20	20 e	20	20	20	20	..	-
Wind	1	92 e	3967	6201	7801	9694	..	39.5
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste	14	14	35	77	77	77	..	12.9
Solid biofuels	914 e	1227 e	1553	1467	1467	1467	..	1.3
Biogases	5 e	104 e	136	116	116	116	..	0.8
Liquid biofuels	-	-	-	-	-	-	-	-
Solar collectors surface (1000 m ²)	-	-	1026	1250	1250	1250	..	-
<i>Cap. of solar collectors (MW_{th})</i> ⁶	-	-	718	875	875	875	..	-

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

CANADA

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	56.92	60.86	57.17	52.04	54.30	55.58	53.40
Hydro	57.07	60.73 e	57.42	53.44	57.48	59.22	57.82
<i>of which: <1MW</i>	-	-	-	-	-	-	-
<i>of which: 1-10MW</i>	-	-	-	-	-	-	-
<i>of which: 10+MW</i>	-	-	57.54	54.27	58.46	60.23	58.80
Geothermal	-	-	-	-	-	-	-
Solar photovoltaic	-	26.09 e	11.42	6.04	4.75	14.14	10.88
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	14.84	18.26 e	15.94	15.96	15.64	8.55	8.93
Wind	-	32.76 e	26.43	25.10	20.82	26.29	26.54
Industrial waste	-	-	-	-	-	-	-
Municipal waste	94.93	124.28	62.67	69.07	33.87	36.37	39.30
Solid biofuels	47.82 e	68.52 e	60.88	58.39	57.15	57.15	55.19
Biogases	52.51 e	77.71 e	47.93	66.59	84.76	90.77	95.69
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

CHILE

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	14.01	25.17	30.85	37.21	38.69	36.10	36.04	2.4
<i>of which: Renewables (Mtoe)</i> ¹	3.90	6.31	6.83	11.15	12.10	9.55	9.58	2.8
<i>Renewables/TPES(%)</i>	27.8	25.1	22.1	30.0	31.3	26.5	26.6	0.4
GDP (billion 2005 US dollars)	76.23	144.79	217.54	242.81	252.46	257.20	262.51	4.0
TPES/GDP ²	0.18	0.17	0.14	0.15	0.15	0.14	0.14	-1.6
TPES/GDP (year 2005 = 100)	117	111	91	98	98	90	88	-1.6
Population (millions)	13.18	15.40	17.09	17.45	17.64	17.84	17.99	1.0
TPES/population (toe per capita)	1.06	1.63	1.80	2.13	2.19	2.02	2.00	1.4
Electricity generation (TWh) ³	18.4	40.1	60.4	69.8	73.1	73.7	74.1	4.2
<i>of which: Renewables (TWh)</i> ^{1,3}	9.89	19.46	24.30	25.42	26.06	30.36	30.74	3.1
<i>Renew./Total Elec.(%)</i> ^{1,4}	53.8	48.5	40.2	36.4	35.7	41.2	41.5	-1.0
Road energy consumption (Mtoe)	2.6	5.1	6.3	6.7	7.4	7.1	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	-	-	-	-	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	-	-	-	-	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	2678	4452	6156	7028	7762	8277	..	4.5
Hydro	2678	4430	5467	5992	6094	6378	..	2.6
<i>Hydro <1MW</i>	1	1	4	5	9	10	..	17.9
<i>Hydro 1-10MW</i>	15	31	52	114	164	250	..	16.1
<i>Hydro 10+MW</i>	2662	4398	5411	5873	5921	6118	..	2.4
<i>Mixed plants</i>	-	-	-	-	-	-	-	-
<i>Pure pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	-	2	15	242	..	-
Solar thermal	-	-	-	e	85 e	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	163	202	301	731	..	-
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-	-
Solid biofuels	-	22	526	832	1240	884	..	30.2
Biogases	-	-	-	-	27	42	..	-
Liquid biofuels	-	-	-	-	-	-	-	-
Solar collectors surface (1000 m ²)	-	-	28	85	86	86 e	..	-
<i>Cap. of solar collectors (MW_{th})</i> ⁶	-	-	20	60	60	60 e	..	-

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

CHILE

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	42.16	49.89	61.35	45.05	41.29	38.33	41.87
Hydro	38.06	47.71	57.87	45.35	38.40	36.97	41.34
<i>of which: <1MW</i>	-	1.63	37.15 e	44.63	24.57	36.59	12.77
<i>of which: 1-10MW</i>	-	26.30	42.37	60.57	41.17	37.22	14.21
<i>of which: 10+MW</i>	38.29	47.87	57.96	45.20	38.36	36.96	42.50
Geothermal	-	-	-	-	-	-	-
Solar photovoltaic	-	-	-	-	2.10	6.09	23.10
Solar thermal	-	-	-	-	- e	0.03 e	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	-	-	39.95	23.25	23.11	21.02	22.53
Industrial waste	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-
Solid biofuels	-	488.29	567.61 e	48.77	66.60	52.67	68.27
Biogases	-	-	-	-	-	16.88	10.87
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

CZECH REPUBLIC

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	49.57	40.90	44.39	42.61	41.95	41.21	40.71	-0.0
<i>of which: Renewables (Mtoe)</i> ¹	0.92	1.34	2.78	3.21	3.57	3.63	3.57	6.7
<i>Renewables/TPES(%)</i>	1.9	3.3	6.3	7.5	8.5	8.8	8.8	6.8
GDP (billion 2005 US dollars)	144.13	151.44	207.02	209.19	208.08	212.20	221.11	2.6
TPES/GDP ²	0.34	0.27	0.21	0.20	0.20	0.19	0.18	-2.5
TPES/GDP (year 2005 = 100)	140	110	88	83	82	79	75	-2.5
Population (millions)	10.36	10.27	10.52	10.51	10.51	10.53	10.56	0.2
TPES/population (toe per capita)	4.78	3.98	4.22	4.05	3.99	3.92	3.86	-0.2
Electricity generation (TWh) ³	62.3	72.9	85.3	86.8	86.2	85.0	82.6	0.8
<i>of which: Renewables (TWh)</i> ^{1,3}	1.16	2.28	5.90	8.07	9.31	9.17	8.79	9.4
<i>Renew./Total Elec.(%)</i> ^{1,4}	1.9	3.1	6.9	9.3	10.8	10.8	10.6	8.5
Road energy consumption (Mtoe)	2.3	3.9	5.5	5.4	5.4	5.6	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	0.06	0.23	0.28	0.28	0.32	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	1.6	4.2	5.1	5.1	5.7	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	1410 e	2101	4569	5168	5291	5366	..	6.9
Hydro	1410 e	2097	2196	2212	2252	2252	..	0.5
<i>Hydro <1MW</i>	..	52	141	149	155	150	..	7.9
<i>Hydro 1-10MW</i>	..	90	155	163	172	177	..	4.9
<i>Hydro 10+MW</i>	..	810	753	753	753	753	..	-0.5
<i>Mixed plants</i>	..	450	450	450	475	475	..	0.4
<i>Pure pumped storage</i>	..	695	697	697	697	697	..	0.0
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	1727	2022	2064	2068	..	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	1	213	258	262	278	..	49.5
Industrial waste	-	-	1	1	1	1	..	-
Municipal waste	-	3	43	45	45	45	..	21.3
Solid biofuels	-	..	271	330	306	355	..	..
Biogases	-	..	118	300	361	367	..	..
Liquid biofuels	-	-	-	-	-	-	-	-
Solar collectors surface (1000 m ²)	-	-	309	425	470	530	..	-
<i>Cap. of solar collectors (MW_{th})</i> ⁶	-	-	216	298	329	371	..	-

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

CZECH REPUBLIC

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	11.73 e	15.45	18.54	16.29	19.57	22.17	21.89
Hydro	11.73 e	12.59	15.95	17.57	14.76	18.45	15.01
<i>of which: <1MW</i>	..	53.78	31.83	44.91	29.99	35.26	35.42
<i>of which: 1-10MW</i>	..	32.72	57.69	44.47	36.81	40.80	35.23
<i>of which: 10+MW</i>	- e	17.69	19.85	24.72	18.38	24.88	13.61
Geothermal	-	-	-	-	-	-	-
Solar photovoltaic	-	-	4.73	4.07	12.13	11.24	11.72
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	-	10.10	11.04	17.98	18.40	20.94	19.57
Industrial waste	-	-	0.90	24.47	61.43	81.63	96.42
Municipal waste	-	49.40	67.30	15.75	36.65	35.45	37.18
Solid biofuels	-	..	62.70	62.86	62.87	62.80	64.06
Biogases	-	..	51.01	61.40	55.85	72.53	80.36
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

DENMARK

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	17.36	18.63	19.48	17.29	17.55	16.21	16.01	-1.0
<i>of which: Renewables (Mtoe)</i> ¹	1.03	1.80	3.92	4.18	4.33	4.43	4.54	6.4
<i>Renewables/TPES(%)</i>	5.9	9.6	20.1	24.2	24.7	27.4	28.4	7.5
GDP (billion 2005 US dollars)	229.22	298.48	319.81	323.26	322.47	326.54	330.39	0.7
TPES/GDP ²	0.08	0.06	0.06	0.05	0.05	0.05	0.05	-1.7
TPES/GDP (year 2005 = 100)	128	105	103	90	92	84	82	-1.7
Population (millions)	5.14	5.34	5.55	5.59	5.61	5.64	5.66	0.4
TPES/population (toe per capita)	3.38	3.49	3.51	3.09	3.13	2.87	2.83	-1.4
Electricity generation (TWh) ³	26.0	36.1	38.9	30.7	34.8	32.2	28.7	-1.5
<i>of which: Renewables (TWh)</i> ^{1,3}	0.83	5.57	12.43	14.84	15.98	17.98	17.46	7.9
<i>Renew./Total Elec.(%)</i> ^{1,4}	3.2	15.5	32.0	48.3	46.0	55.9	60.8	9.6
Road energy consumption (Mtoe)	3.1	3.7	4.0	3.7	3.6	3.7	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	0.03	0.23	0.23	0.23	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	0.7	6.2	6.3	6.3	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	396	2758	5065	6092	6747	6916	..	6.8
Hydro	10	10	9	9	9	8	..	-1.6
<i>Hydro <1MW</i>	6	6	5	6	5	4	..	-2.9
<i>Hydro 1-10MW</i>	4	4	4	3	4	4	..	-
<i>Hydro 10+MW</i>	-	-	-	-	-	-	-	-
<i>Mixed plants</i>	-	-	-	-	-	-	-	-
<i>Pure pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	1	7	402	571	607	..	58.1
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	326	2390	3802	4164	4820	4888	..	5.2
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste	-	230	299	281	332	325	..	2.5
Solid biofuels	40	86	868	1156	923	993	..	19.1
Biogases	20	41	80	80	85	95	..	6.2
Liquid biofuels	-	-	-	-	7	-	-	-
Solar collectors surface (1000 m ²)	57	243	480	597	712	810	..	9.0
<i>Cap. of solar collectors (MW_{th})</i> ⁶	40	170	336	418	498	567	..	9.0

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

DENMARK

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	24.44	25.37	29.61	29.70	29.17	28.25	30.88
Hydro	31.96	34.47	23.35	26.18	22.17	17.02	21.55
<i>of which: <1MW</i>	29.49	27.78	18.92	19.64	9.65	6.21	10.18
<i>of which: 1-10MW</i>	35.67	44.52	31.11	34.36	47.20	30.54	32.92
<i>of which: 10+MW</i>	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-
Solar photovoltaic	-	13.70	8.22	9.83	2.95	10.35	11.20
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	21.37	20.26	24.14	23.45	28.15	26.34	30.54
Industrial waste	-	-	-	-	-	-	-
Municipal waste	-	61.33	67.67	63.37	65.89	54.64	56.52
Solid biofuels	30.82	54.62	37.02	43.71	31.37	37.99	34.01
Biogases	22.58	58.07	49.43	50.99	53.88	51.64	54.11
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

ESTONIA

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	9.78	4.71	5.62	5.52	6.09	6.04	5.49	1.0
<i>of which: Renewables (Mtoe)</i> ¹	0.19	0.51	0.85	0.86	0.85	0.86	0.95	4.2
<i>Renewables/TPES(%)</i>	1.9	10.9	15.1	15.6	14.0	14.2	17.4	3.2
GDP (billion 2005 US dollars)	14.93	14.10	19.51	22.07	22.42	23.07	23.32	3.4
TPES/GDP ²	0.66	0.33	0.29	0.25	0.27	0.26	0.24	-2.3
TPES/GDP (year 2005 = 100)	250	127	110	95	104	100	90	-2.3
Population (millions)	1.59	1.40	1.33	1.33	1.32	1.32	1.32	-0.4
TPES/population (toe per capita)	6.16	3.37	4.22	4.17	4.62	4.59	4.17	1.4
Electricity generation (TWh) ³	17.2	8.5	13.0	12.0	13.3	12.4	10.4	1.4
<i>of which: Renewables (TWh)</i> ^{1,3}	-	0.02	1.04	1.48	1.22	1.39	1.50	34.3
<i>Renew./Total Elec.(%)</i> ^{1,4}	-	0.2	8.1	12.3	9.2	11.2	14.4	32.5
Road energy consumption (Mtoe)	0.7	0.5	0.7	0.7	0.7	0.7	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	-	0.00	0.00	0.01	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	-	0.5	0.5	0.8	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	-	2	256	441	622	722	..	52.3
Hydro	-	2	6	8	8	5	..	6.8
<i>Hydro <1MW</i>	-	2	6	8	8	5	..	6.8
<i>Hydro 1-10MW</i>	-	-	-	-	-	-	-	-
<i>Hydro 10+MW</i>	-	-	-	-	-	-	-	-
<i>Mixed plants</i>	-	-	-	-	-	-	-	-
<i>Pure pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	108	266	248	334	..	-
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	210	210	..	-
Solid biofuels	-	-	138	163	150	165	..	-
Biogases	-	-	4	4	6	8	..	-
Liquid biofuels	-	-	-	-	-	-	-	-
Solar collectors surface (1000 m ²)	-	-	-	-	-	-	-	-
<i>Cap. of solar collectors (MW_{th})</i> ⁶	-	-	-	-	-	-	-	-

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

ESTONIA

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	-	104.17	26.48	46.55	38.22	23.48	23.11
Hydro	-	28.54	50.23	51.14	60.01	36.43	61.72
<i>of which: <1MW</i>	-	28.54	50.23	51.14	60.01	36.43	61.72
<i>of which: 1-10MW</i>	-	-	-	-	-	-	-
<i>of which: 10+MW</i>	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-
Solar photovoltaic	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	-	-	19.89	29.28	18.60	24.35	20.63
Industrial waste	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	3.26	3.97
Solid biofuels	-	-	23.97	60.37	68.99	49.09	50.57
Biogases	-	-	81.80	29.08	44.98	38.05	38.53
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

FINLAND

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	28.38	32.41	36.63	33.98	33.27	33.93	32.46	0.0
<i>of which: Renewables (Mtoe)</i> ¹	5.49	7.75	9.34	9.99	9.91	10.15	10.47	2.0
<i>Renewables/TPES(%)</i>	19.3	23.9	25.5	29.4	29.8	29.9	32.3	2.0
GDP (billion 2005 US dollars)	167.12	209.38	247.80	250.55	248.65	246.91	248.26	1.1
TPES/GDP ²	0.17	0.15	0.15	0.14	0.13	0.14	0.13	-1.1
TPES/GDP (year 2005 = 100)	117	107	102	94	92	95	90	-1.1
Population (millions)	4.99	5.18	5.36	5.41	5.44	5.46	5.49	0.4
TPES/population (toe per capita)	5.69	6.26	6.83	6.28	6.12	6.21	5.92	-0.4
Electricity generation (TWh) ³	54.4	70.0	80.7	70.4	71.3	68.1	68.6	-0.1
<i>of which: Renewables (TWh)</i> ^{1,3}	16.02	23.38	24.20	28.56	25.63	26.27	29.87	1.6
<i>Renew./Total Elec.(%)</i> ^{1,4}	29.5	33.4	30.0	40.6	36.0	38.6	43.5	1.8
Road energy consumption (Mtoe)	3.6	3.6	4.0	3.9	3.9	3.8	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	0.13	0.19	0.22	0.50	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	3.3	5.0	5.7	12.9	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	3605	4422	5055	5231	5474	5680	..	1.8
Hydro	2621	2882	3155	3196	3224	3248	..	0.9
<i>Hydro <1MW</i>	-	29	32	32	33	33	..	0.9
<i>Hydro 1-10MW</i>	-	279	285	290	274	273	..	-0.2
<i>Hydro 10+MW</i>	-	2574	2838	2874	2917	2942	..	1.0
<i>Mixed plants</i>	-	-	-	-	-	-	-	-
<i>Pure pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	1	2	7	8	9	11	..	12.9
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	38	197	257	447	627	..	22.2
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-	-
Solid biofuels	983	1500	1696	1770	1794	1794	..	1.3
Biogases	-	-	-	-	-	-	-	-
Liquid biofuels	-	-	-	-	-	-	-	-
Solar collectors surface (1000 m ²)	6	10	31	37	41	45	..	11.3
<i>Cap. of solar collectors (MW_{th})</i> ⁶	4	7	22	26	29	32	..	11.5

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

FINLAND

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	50.71	60.54	55.76	55.12	62.84	54.16	53.56
Hydro	47.30	58.07	51.85	46.75	60.22	45.46	47.09
<i>of which: <1MW</i>	-	52.75	46.77	40.97	112.31	40.64	39.26
<i>of which: 1-10MW</i>	-	43.29	41.77	33.41	55.83	39.99	36.89
<i>of which: 10+MW</i>	-	59.73	52.94	48.16	60.08	46.03	48.12
Geothermal	-	-	-	-	-	-	-
Solar photovoltaic	5.19	9.00	7.51	7.73	8.20	8.18	8.04
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	-	23.43	23.66	17.05	21.96	19.76	20.16
Industrial waste	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-
Solid biofuels	59.88 e	64.70	61.15	71.14	69.05	71.95	69.79
Biogases	-	-	-	-	-	-	-
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

FRANCE

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	224.01	251.90	261.21	251.91	253.01	242.64	245.70	-0.2
<i>of which: Renewables (Mtoe)</i> ¹	15.22	15.74	20.80	20.62	22.88	21.30	21.53	2.1
<i>Renewables/TPES(%)</i>	6.8	6.2	8.0	8.2	9.0	8.8	8.8	2.3
GDP (billion 2005 US dollars)	1907.28	2346.48	2646.84	2706.81	2724.58	2729.47	2761.02	1.1
TPES/GDP ²	0.12	0.11	0.10	0.09	0.09	0.09	0.09	-1.2
TPES/GDP (year 2005 = 100)	110	101	93	88	87	84	84	-1.2
Population (millions)	58.23	60.87	64.97	65.60	65.88	66.17	66.49	0.6
TPES/population (toe per capita)	3.85	4.14	4.02	3.84	3.84	3.67	3.70	-0.8
Electricity generation (TWh) ³	417.2	535.2	564.3	560.8	567.2	557.0	563.2	0.3
<i>of which: Renewables (TWh)</i> ^{1,3}	55.78	69.40	78.20	83.04	96.67	91.41	89.43	1.7
<i>Renew./Total Elec.(%)</i> ^{1,4}	13.4	13.0	13.9	14.8	17.0	16.4	15.9	1.4
Road energy consumption (Mtoe)	36.3	42.1	41.2	40.9	40.7	41.0	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	0.32	2.40	2.66	2.69	2.91	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	0.8	5.8	6.5	6.6	7.1	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	24913	26059	33928	38541	39922	41858	..	3.4
Hydro	24673	25126	25401	25366	25360	25294	..	0.0
<i>Hydro <1MW</i>	366	372	447	429	417	415	..	0.8
<i>Hydro 1-10MW</i>	1442	1462	1621	1596	1604	1614	..	0.7
<i>Hydro 10+MW</i>	15909	15812	16088	16096	16094	16100	..	0.1
<i>Mixed plants</i>	5164	5623	5437	5437	5437	5437	..	-0.2
<i>Pure pumped storage</i>	1792	1857	1808	1808	1808	1728	..	-0.5
Geothermal	-	-	-	2	2	2	..	-
Solar photovoltaic	-	7	1044	3965	4652	5654	..	61.3
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	240	240	240	240	240	240	..	-
Wind	-	38	5912	7517	8202	9068	..	47.9
Industrial waste	-	-	-	-	36	70	..	-
Municipal waste	-	432	807	900	825	830	..	4.8
Solid biofuels	-	182	353	304	325	380	..	5.4
Biogases	-	34	171	247	280	320	..	17.4
Liquid biofuels	-	-	-	-	-	-	-	-
Solar collectors surface (1000 m ²)	571	513	1447	1810	1975	2162	..	10.8
<i>Cap. of solar collectors (MW_{th})</i> ⁶	400	359	1013	1267	1383	1513	..	10.8

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

FRANCE

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	27.29	32.97	26.55	28.59	26.70	29.70	27.05
Hydro	26.57	32.32	25.61	30.35	28.62	34.15	30.97
<i>of which: <1MW</i>	-	44.79	35.29	42.95	33.95	43.39	41.46
<i>of which: 1-10MW</i>	-	39.41	30.78	35.05	30.74	38.55	35.70
<i>of which: 10+MW</i>	38.65	43.21	33.16	39.77	37.69	45.19	39.90
Geothermal	-	-	-	-	-	-	-
Solar photovoltaic	-	8.52	9.22	6.78	11.56	11.62	11.93
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	23.91	24.13	22.87	22.66	21.78	19.67	22.86
Wind	-	14.47	15.92	19.20	22.65	22.32	21.71
Industrial waste	-	-	-	-	-	46.88	26.89
Municipal waste	- e	57.13	55.94	55.82	56.49	52.59	50.19
Solid biofuels	-	68.37	67.84	47.30	53.35	48.01	49.18
Biogases	-	103.65	65.24	67.13	59.38	61.42	52.65
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

GERMANY

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	351.20	336.58	326.87	311.81	317.71	306.07	311.84	-0.5
of which: Renewables (Mtoe) ¹	5.31	8.98	27.57	32.25	33.40	35.40	38.96	10.3
Renewables/TPES(%)	1.5	2.7	8.4	10.3	10.5	11.6	12.5	10.8
GDP (billion 2005 US dollars)	2568.63	3123.91	3417.10	3556.51	3567.11	3624.17	3685.34	1.1
TPES/GDP ²	0.14	0.11	0.10	0.09	0.09	0.08	0.08	-1.6
TPES/GDP (year 2005 = 100)	130	103	91	84	85	81	81	-1.6
Population (millions)	79.36	81.46	80.28	80.43	80.65	80.98	81.56	0.0
TPES/population (toe per capita)	4.43	4.13	4.07	3.88	3.94	3.78	3.82	-0.5
Electricity generation (TWh) ³	547.7	572.3	626.6	623.7	632.9	621.9	645.6	0.8
of which: Renewables (TWh) ^{1,3}	19.09	35.48	104.81	143.46	152.37	162.51	196.03	12.1
Renew./Total Elec.(%) ^{1,4}	3.5	6.2	16.7	23.0	24.1	26.1	30.4	11.2
Road energy consumption (Mtoe)	50.5	56.3	50.3	50.5	51.5	52.2	..	..
of which: Liquid biofuels (Mtoe)	-	0.24	2.87	2.92	2.68	2.77	..	..
Liq. biofuels/road tr.(%) ⁵	-	0.4	5.7	5.8	5.2	5.3	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	9146	17638	63760	83994	91481	98497	..	13.1
Hydro	8182	9485	11218	11257	11240	11234	..	1.2
Hydro <1MW	374	558	616	635	646	599	..	0.5
Hydro 1-10MW	912	872	532	656	640	684	..	-1.7
Hydro 10+MW	2024	2656	3104	3160	3148	3141	..	1.2
Mixed plants	672	745	1155	1156	1156	1156	..	3.2
Pure pumped storage	4200	4654	5811	5650	5650	5654	..	1.4
Geothermal	-	-	8	12	24	24	..	-
Solar photovoltaic	2	114	17552	32641	36335	38234	..	51.5
Solar thermal	-	-	2	2	2	2	..	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	48	6095	27180	31304	34660	39193	..	14.2
Industrial waste	253	885	1226	1261	953	953	..	0.5
Municipal waste	550	585	1526	1465	1860	1888	..	8.7
Solid biofuels	22	129	1913	2034	2057	2074	..	21.9
Biogases	89	345	2802	3764	4100	4700	..	20.5
Liquid biofuels	-	-	333	254	250	195	..	-
Solar collectors surface (1000 m ²)	348	3251	14044	16309	17222	17987	..	13.0
Cap. of solar collectors (MW _{th}) ⁶	244	2276	9831	11416	12055	12591	..	13.0

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

GERMANY

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	31.26	29.44	23.78	21.05	21.22	20.56	20.37
Hydro	27.61	31.25	27.77	27.83	28.24	29.23	25.86
<i>of which: <1MW</i>	41.08	51.74	42.43	42.54	37.87	42.20	39.00
<i>of which: 1-10MW</i>	62.25	63.71	79.67	62.89	50.54	85.07	46.32
<i>of which: 10+MW</i>	62.64	61.62	53.80	57.84	60.49	57.44	53.66
Geothermal	-	-	-	39.53	24.16	37.99	46.68
Solar photovoltaic	5.71	6.01	7.12	7.63	9.23	9.74	10.77
Solar thermal	-	-	-	0.41	0.01	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	16.89	17.52	16.92	15.87	18.48	17.03	16.71
Industrial waste	107.07	50.90	..	14.95	14.52	13.92	16.32
Municipal waste	50.58	71.97	63.24	71.01	77.15	66.46	73.40
Solid biofuels	66.94	71.15	66.79	64.25	67.86	64.61	65.32
Biogases	31.68	55.69	41.04	71.01	82.61	81.40	75.57
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	21.98	46.69	15.70	12.72	21.34

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

GREECE

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	21.44	27.09	27.60	26.54	23.33	23.13	23.61	-0.9
<i>of which: Renewables (Mtoe)</i> ¹	1.10	1.40	2.13	2.45	2.62	2.45	2.67	4.4
<i>Renewables/TPES(%)</i>	5.2	5.2	7.7	9.2	11.2	10.6	11.3	5.3
GDP (billion 2005 US dollars)	197.65	251.51	299.36	252.16	244.10	245.70	245.13	-0.2
TPES/GDP ²	0.11	0.11	0.09	0.11	0.10	0.09	0.10	-0.7
TPES/GDP (year 2005 = 100)	109	108	93	106	96	95	97	-0.7
Population (millions)	10.27	10.81	11.12	11.05	10.97	10.93	10.95	0.1
TPES/population (toe per capita)	2.09	2.51	2.48	2.40	2.13	2.12	2.16	-1.0
Electricity generation (TWh) ³	34.8	53.4	57.4	60.8	57.1	50.3	47.9	-0.7
<i>of which: Renewables (TWh)</i> ^{1,3}	1.77	4.14	10.52	10.15	14.35	12.18	13.99	8.4
<i>Renew./Total Elec.(%)</i> ^{1,4}	5.1	7.8	18.3	16.7	25.1	24.2	29.2	9.2
Road energy consumption (Mtoe)	3.9	5.3	6.5	4.8	5.0	4.9	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	0.13	0.11	0.12	0.14	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	2.0	2.2	2.5	2.7	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	2458	3334	4799	6613	7715	8053	..	6.5
Hydro	2408	3072	3215	3236	3238	3389	..	0.7
<i>Hydro <1MW</i>	-	14	34	34	33	35	..	6.8
<i>Hydro 1-10MW</i>	-	42	163	184	187	185	..	11.2
<i>Hydro 10+MW</i>	2093	2317	2319	2319	2319	2470	..	0.5
<i>Mixed plants</i>	315	699	699	699	699	699	..	-
<i>Pure pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	2	-	-	-	-	-	-	-
Solar photovoltaic	-	-	202	1536	2579	2596	..	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	1	226	1298	1753	1809	1978	..	16.8
Industrial waste	47	35	43	43 e	43	43	..	1.5
Municipal waste	-	-	-	-	-	-	-	-
Solid biofuels	-	-	-	-	-	-	-	-
Biogases	-	1	41	45	46	47	..	31.7
Liquid biofuels	-	-	-	-	-	-	-	-
Solar collectors surface (1000 m ²)	1448	2941	4100	4122	4181	4287	..	2.7
<i>Cap. of solar collectors (MW_{th})</i> ⁶	1014	2059	2870	2885	2927	3001	..	2.7

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

GREECE

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	9.28	16.18	22.23	25.39	17.95	21.41	17.59
Hydro	9.47	15.28	20.62	26.58	16.19	22.51	15.52
<i>of which: <1MW</i>	-	21.20	46.49	48.35	40.34	42.20	42.01
<i>of which: 1-10MW</i>	-	38.05	39.58	42.93	34.08	39.65	35.31
<i>of which: 10+MW</i>	9.65	17.38	23.11	33.00	18.38	27.44	17.45
Geothermal	-	-	-	-	-	-	-
Solar photovoltaic	-	-	10.88	8.91	12.59	16.15	16.67
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	22.83	22.78	29.44	23.87	25.07	26.12	21.29
Industrial waste	-	53.16	47.43	34.25	15.93 e	22.57	26.55
Municipal waste	-	-	-	-	-	-	-
Solid biofuels	-	-	-	-	-	-	-
Biogases	-	-	57.80	52.90	51.82	53.70	53.26
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

HUNGARY

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	28.78	25.00	25.69	23.47	22.48	22.84	23.95	-0.3
<i>of which: Renewables (Mtoe)</i> ¹	0.75	0.83	1.96	1.78	1.85	1.93	1.93	5.8
<i>Renewables/TPES(%)</i>	2.6	3.3	7.6	7.6	8.2	8.5	8.0	6.1
GDP (billion 2005 US dollars)	103.50	106.55	130.09	130.14	132.60	137.47	141.51	1.9
TPES/GDP ²	0.28	0.23	0.20	0.18	0.17	0.17	0.17	-2.2
TPES/GDP (year 2005 = 100)	133	112	94	86	81	79	81	-2.2
Population (millions)	10.37	10.21	10.00	9.92	9.89	9.87	9.86	-0.2
TPES/population (toe per capita)	2.78	2.45	2.57	2.37	2.27	2.31	2.43	-0.1
Electricity generation (TWh) ³	28.4	35.2	37.4	34.6	30.3	29.4	30.2	-1.0
<i>of which: Renewables (TWh)</i> ^{1,3}	0.20	0.24	3.02	2.65	2.79	3.14	3.16	18.6
<i>Renew./Total Elec.(%)</i> ^{1,4}	0.7	0.7	8.1	7.6	9.2	10.7	10.5	19.9
Road energy consumption (Mtoe)	2.6	2.9	3.9	3.6	3.3	3.7	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	0.17	0.16	0.14	0.19	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	4.4	4.3	4.1	5.1	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	72	79	885	693	776	1040	..	20.2
Hydro	48	48	53	56	57	57	..	1.2
<i>Hydro <1MW</i>	1	1	4	4	4	4	..	10.4
<i>Hydro 1-10MW</i>	8	8	10	11	12	12	..	2.9
<i>Hydro 10+MW</i>	39	39	39	41	41	41	..	0.4
<i>Mixed plants</i>	-	-	-	-	-	-	-	-
<i>Pure pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	2	12	35	77	..	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	293	325	329	329	..	-
Industrial waste	-	1	2	9	9	9	..	17.0
Municipal waste	24	24	42	36	36	38	..	3.3
Solid biofuels	-	5	469	202	247	467	..	38.3
Biogases	-	1	24	53	63	63	..	34.4
Liquid biofuels	-	-	-	-	-	-	-	-
Solar collectors surface (1000 m ²)	20	36	140	150	158	160	..	11.2
<i>Cap. of solar collectors (MW_{th})</i> ⁶	14	25	98	105	111	112	..	11.3

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

HUNGARY

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	33.61	43.03	50.94	40.90	45.52	42.47	35.72
Hydro	42.33	42.33	47.10	40.58	43.41	42.68	60.38
<i>of which: <1MW</i>	57.08	57.08	50.49	49.13	40.25	46.93	66.05
<i>of which: 1-10MW</i>	32.82	57.08	46.14	57.19	26.39	43.78	55.49
<i>of which: 10+MW</i>	43.91	38.93	47.05	35.44	48.28	41.95	61.25
Geothermal	-	-	-	-	-	-	-
Solar photovoltaic	-	-	-	4.85	7.52	8.03	8.29
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	-	-	6.78	20.80	27.05	24.90	22.78
Industrial waste	-	-	72.63	38.81	7.81	6.80	20.23
Municipal waste	16.17 e	52.32 e	56.07	78.75	70.58	73.01	71.57
Solid biofuels	-	22.32	53.31	49.51	75.33	66.05	41.61
Biogases	-	-	46.72	55.80	45.35	48.41	51.42
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

ICELAND

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	2.27	3.12	5.41	5.65	5.89	5.87	5.78	4.2
<i>of which: Renewables (Mtoe)</i> ¹	1.62	2.41	4.79	5.07	5.27	5.22	5.12	5.1
<i>Renewables/TPES(%)</i>	71.4	77.4	88.5	89.7	89.6	89.1	88.5	0.9
GDP (billion 2005 US dollars)	7.83	10.13	13.24	13.66	14.19	14.45	15.02	2.7
TPES/GDP ²	0.29	0.31	0.41	0.41	0.41	0.41	0.38	1.5
TPES/GDP (year 2005 = 100)	116	123	163	165	165	162	153	1.5
Population (millions)	0.26	0.28	0.32	0.32	0.32	0.33	0.33	1.1
TPES/population (toe per capita)	8.90	11.10	17.03	17.61	18.16	17.94	17.47	3.1
Electricity generation (TWh) ³	4.5	7.7	17.1	17.5	18.1	18.1	18.8	6.1
<i>of which: Renewables (TWh)</i> ^{1,3}	4.50	7.68	17.06	17.55	18.11	18.12	18.80	6.1
<i>Renew./Total Elec.(%)</i> ^{1,4}	99.9	99.9	100.0	100.0	100.0	100.0	100.0	0.0
Road energy consumption (Mtoe)	0.2	0.2	0.3	0.3	0.3	0.3	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	0.00	0.00	0.00	0.01	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	0.2	0.7	1.4	2.5	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	802	1236	2458	2542	2651	2652	..	5.6
Hydro	756	1064	1883	1877	1984	1984	..	4.6
<i>Hydro <1MW</i>	-	7	9	11	11	11	..	3.3
<i>Hydro 1-10MW</i>	-	39	58	40	52	52	..	2.1
<i>Hydro 10+MW</i>	-	1018	1816	1826	1921	1921	..	4.6
<i>Mixed plants</i>	-	-	-	-	-	-	-	-
<i>Pure pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	46	172	575	665	665	665	..	10.1
Solar photovoltaic	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	2	3	..	-
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-	-
Solid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	-	-	-	-	-	-
Liquid biofuels	-	-	-	-	-	-	-	-
Solar collectors surface (1000 m ²)	-	-	-	-	-	-	-	-
<i>Cap. of solar collectors (MW_{th})</i> ⁶	-	-	-	-	-	-	-	-

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

ICELAND

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	64.11	70.92	70.99	79.22	78.80	77.99	78.00
Hydro	63.48	68.19	68.90	76.34	75.03	74.01	74.07
<i>of which: <1MW</i>	-	30.98	45.61	63.73	64.36	56.91	56.43
<i>of which: 1-10MW</i>	-	66.74	58.51	45.14	52.27	44.02	46.81
<i>of which: 10+MW</i>	-	68.50	69.54	77.40	75.59	74.92	74.91
Geothermal	74.45	87.81	81.58	88.65	89.43	90.04	89.92
Solar photovoltaic	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	-	-	-	-	-	15.70	31.91
Industrial waste	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-
Solid biofuels	-	-	-	-	-	-	-
Biogases	-	-	48.12	-	-	-	-
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

IRELAND

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	9.91	13.80	14.37	13.12	13.02	12.77	13.26	-0.3
<i>of which: Renewables (Mtoe)</i> ¹	0.17	0.23	0.66	0.78	0.84	0.96	1.08	10.7
<i>Renewables/TPES(%)</i>	1.7	1.7	4.6	5.9	6.5	7.5	8.1	11.0
GDP (billion 2005 US dollars)	80.80	163.71	220.06	226.10	229.34	241.27	260.11	3.1
TPES/GDP ²	0.12	0.08	0.07	0.06	0.06	0.05	0.05	-3.3
TPES/GDP (year 2005 = 100)	178	122	95	84	82	77	74	-3.3
Population (millions)	3.51	3.80	4.56	4.59	4.60	4.62	4.65	1.3
TPES/population (toe per capita)	2.83	3.63	3.15	2.86	2.83	2.77	2.85	-1.6
Electricity generation (TWh) ³	14.2	23.7	28.5	27.4	25.8	26.0	28.4	1.2
<i>of which: Renewables (TWh)</i> ^{1,3}	0.70	1.19	3.73	5.25	5.62	6.39	7.85	13.4
<i>Renew./Total Elec.(%)</i> ^{1,4}	4.9	5.0	13.1	19.2	21.8	24.5	27.6	12.1
Road energy consumption (Mtoe)	1.6	3.3	3.8	3.4	3.4	3.6	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	0.09	0.06	0.07	0.09	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	2.4	1.8	2.1	2.5	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	513	662	1940	2358	2544	2816	..	10.9
Hydro	513	528	529	529	529	529	..	0.0
<i>Hydro <1MW</i>	4	8	20	20	20	20	..	6.8
<i>Hydro 1-10MW</i>	23	23	21	21	21	21	..	-0.6
<i>Hydro 10+MW</i>	196	205	196	196	196	196	..	-0.3
<i>Mixed plants</i>	-	-	-	-	-	-	-	-
<i>Pure pumped storage</i>	290	292	292	292	292	292	..	-
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	1	1	1	1	..	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	119	1374	1764	1941	2211	..	23.2
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste	-	-	-	15	16	17	..	-
Solid biofuels	-	-	5	5	5	5	..	-
Biogases	-	15	31	44	52	53	..	9.4
Liquid biofuels	-	-	-	-	-	-	-	-
Solar collectors surface (1000 m ²)	2	4	185	251	278	300	..	36.1
<i>Cap. of solar collectors (MW_{th})</i> ⁶	1	3	130	176	195	210	..	35.5

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

IRELAND

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	21.87	25.68	23.81	22.99	26.67	27.04	27.28
Hydro	21.87	24.86	21.16	16.75	21.88	20.38	21.31
<i>of which: <1MW</i>	35.68	40.97	30.80	23.81	19.16	11.87	23.09
<i>of which: 1-10MW</i>	35.68	40.97	30.80	28.06	40.63	30.58	35.31
<i>of which: 10+MW</i>	35.68	40.91	30.80	29.46	40.42	30.43	35.13
Geothermal	-	-	-	-	-	-	-
Solar photovoltaic	-	-	-	5.43	7.37	7.98	10.80
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	-	23.41	24.55	23.38	25.95	26.71	26.54
Industrial waste	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	81.32	92.38	89.50
Solid biofuels	-	-	45.05	246.32	403.76	512.54	598.03
Biogases	-	72.30	77.61	76.27	51.65	40.91	44.30
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

ISRAEL

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	11.47	18.23	23.19	24.27	23.13	22.70	23.28	1.6
<i>of which: Renewables (Mtoe)</i> ¹	0.36	0.61	1.16	1.16	1.16	1.20	1.24	4.9
<i>Renewables/TPES(%)</i>	3.2	3.3	5.0	4.8	5.0	5.3	5.3	3.2
GDP (billion 2005 US dollars)	94.56	170.38	234.32	253.20	261.43	268.11	274.87	3.2
TPES/GDP ²	0.12	0.11	0.10	0.10	0.09	0.08	0.08	-1.5
TPES/GDP (year 2005 = 100)	125	110	102	98	91	87	87	-1.5
Population (millions)	4.66	6.30	7.62	7.91	8.06	8.21	8.31	1.9
TPES/population (toe per capita)	2.46	2.89	3.04	3.07	2.87	2.76	2.80	-0.2
Electricity generation (TWh) ³	20.9	42.7	58.6	63.0	61.3	60.8	65.2	2.9
<i>of which: Renewables (TWh)</i> ^{1,3}	0.00	0.03	0.17	0.48	0.57	0.92	1.40	28.9
<i>Renew./Total Elec.(%)</i> ^{1,4}	0.0	0.1	0.3	0.8	0.9	1.5	2.2	25.3
Road energy consumption (Mtoe)	2.7	4.5	5.5	5.7	5.3	5.6	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	-	-	-	-	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	-	-	-	-	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	-	-	93	260	507	715	..	-
Hydro	-	-	7	7	10	10	..	-
<i>Hydro <1MW</i>	-	-	2	2	2	2	..	-
<i>Hydro 1-10MW</i>	-	-	5	5	8	8	..	-
<i>Hydro 10+MW</i>	-	-	-	-	-	-	-	-
<i>Mixed plants</i>	-	-	-	-	-	-	-	-
<i>Pure pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	70	237	481 e	681 e	..	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	6	6	6	6	..	-
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-	-
Solid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	10	10	10	18	..	-
Liquid biofuels	-	-	-	-	-	-	-	-
Solar collectors surface (1000 m ²)	-	3500	4168	4168	4168	4168	..	1.3
<i>Cap. of solar collectors (MW_{th})</i> ⁶	-	2450	2918	2918	2918	2918	..	1.3

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

ISRAEL

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	-	-	37.10	20.95	21.25	12.86	14.71
Hydro	-	-	63.93	50.39	53.30	31.96	14.54
<i>of which: <1MW</i>	-	-	-	25.76	27.07 e	33.50 e	27.08
<i>of which: 1-10MW</i>	-	-	-	18.79	23.89 e	11.83 e	11.41
<i>of which: 10+MW</i>	-	-	79.91	-	- e	- e	-
Geothermal	-	-	-	-	-	-	-
Solar photovoltaic	-	-	-	11.48	17.79	11.72 e	14.09 e
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	-	-	20.93	15.39	11.37	11.37	11.84
Industrial waste	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-
Solid biofuels	-	-	-	-	-	-	-
Biogases	-	-	-	36.53	86.76	49.09	39.39
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

ITALY

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	146.56	171.52	173.72	161.31	155.37	146.77	150.72	-0.9
<i>of which: Renewables (Mtoe)</i> ¹	6.47	10.11	21.86	23.87	26.37	26.51	26.33	6.6
<i>Renewables/TPES(%)</i>	4.4	5.9	12.6	14.8	17.0	18.1	17.5	7.5
GDP (billion 2005 US dollars)	1749.18	2060.21	2125.06	2077.06	2040.75	2033.75	2049.19	-0.0
TPES/GDP ²	0.08	0.08	0.08	0.08	0.08	0.07	0.07	-0.8
TPES/GDP (year 2005 = 100)	97	96	95	90	88	84	85	-0.8
Population (millions)	56.72	56.94	59.83	60.34	60.65	60.80	61.05	0.5
TPES/population (toe per capita)	2.58	3.01	2.90	2.67	2.56	2.41	2.47	-1.3
Electricity generation (TWh) ³	213.1	269.9	298.8	297.3	287.9	278.1	280.7	0.3
<i>of which: Renewables (TWh)</i> ^{1,3}	34.91	50.88	76.97	92.22	112.01	120.68	109.56	5.2
<i>Renew./Total Elec.(%)</i> ^{1,4}	16.4	18.8	25.8	31.0	38.9	43.4	39.0	5.0
Road energy consumption (Mtoe)	30.9	36.9	35.7	33.6	32.9	34.3	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	1.42	1.37	1.25	1.07	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	4.0	4.1	3.8	3.1	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	19364	22003	33711	50703	53483	53947	..	6.6
Hydro	18770	20346	21520	21880	22009	22098	..	0.6
<i>Hydro <1MW</i>	-	373	509	569	621	654	..	4.1
<i>Hydro 1-10MW</i>	-	1824	2155	2335	2413	2432	..	2.1
<i>Hydro 10+MW</i>	-	11192	11312	11421	11420	11420	..	0.1
<i>Mixed plants</i>	2954	3001	3587	3598	3598	3610	..	1.3
<i>Pure pumped storage</i>	3234	3956	3957	3957	3957	3982	..	0.0
Geothermal	496	590	728	728	729	768	..	1.9
Solar photovoltaic	4	19	3470	16420	18420	18609	..	63.5
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	3	363	5794	8102	8542	8683	..	25.5
Industrial waste	-	-	16	18	21	17	..	-
Municipal waste	46	287	716	754	836	826	..	7.8
Solid biofuels	4	218 e	406	538	606	620	..	7.8
Biogases	41	180	480	1274	1317	1336	..	15.4
Liquid biofuels	-	-	581	989	1003	990	..	-
Solar collectors surface (1000 m ²)	120	271	2415	3018	3318	3538	..	20.1
<i>Cap. of solar collectors (MW_{th})</i> ⁶	84	190	1691	2113	2323	2477	..	20.1

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

ITALY

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	22.64	30.14	26.48 e	27.90	21.72	24.80	26.42
Hydro	21.33	28.56	23.34 e	28.86	22.88	28.36	31.13
<i>of which: <1MW</i>	-	47.52	42.58	50.36	41.83	48.45	54.95
<i>of which: 1-10MW</i>	-	41.16	35.76	46.15	35.81	44.23	51.60
<i>of which: 10+MW</i>	-	36.79	28.15	40.53	32.45	40.77	44.39
Geothermal	74.15	91.03	90.58 e	84.30	87.68	88.62	87.94
Solar photovoltaic	11.42	10.81 e	10.41 e	6.27	13.11	13.38	13.68
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	7.61	17.71	16.36 e	17.98	18.89	19.91	19.95
Industrial waste	-	-	57.18	69.90	65.20	47.24	54.69
Municipal waste	18.12 e	31.98 e	64.31 e	65.26	65.50	60.24	65.52
Solid biofuels	34.25	22.24 e	69.09	63.57	54.79	69.30	70.38
Biogases	0.56	35.96	48.15	48.85	41.40	64.56	70.05
Biodiesels	-	-	-	-	8.01	21.16	25.37
Other liquid biofuels	-	-	-	60.46	36.09	42.86	50.16

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

JAPAN

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	438.70	518.01	498.61	451.47	454.68	441.74	435.91	-1.1
<i>of which: Renewables (Mtoe)</i> ¹	14.95	15.91	18.95	18.46	19.93	21.39	23.00	2.5
<i>Renewables/TPES(%)</i>	3.4	3.1	3.8	4.1	4.4	4.8	5.3	3.7
GDP (billion 2005 US dollars)	4553.11	5093.20	5498.72	5569.10	5644.66	5642.89	5669.57	0.7
TPES/GDP ²	0.10	0.10	0.09	0.08	0.08	0.08	0.08	-1.8
TPES/GDP (year 2005 = 100)	100	106	94	84	84	82	80	-1.8
Population (millions)	123.61	126.83	128.04	127.55	127.33	127.12	126.93	0.0
TPES/population (toe per capita)	3.55	4.08	3.89	3.54	3.57	3.48	3.43	-1.1
Electricity generation (TWh) ³	872.6	1088.1	1139.4	1055.9	1058.8	1035.5	1008.9	-0.5
<i>of which: Renewables (TWh)</i> ^{1,3}	98.20	99.19	120.07	118.28	129.32	145.26	164.78	3.4
<i>Renew./Total Elec.(%)</i> ^{1,4}	11.3	9.1	10.5	11.2	12.2	14.0	16.3	4.0
Road energy consumption (Mtoe)	59.7	74.4	65.5	66.2	65.7	63.2	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	-	-	-	-	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	-	-	-	-	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	38101	48593	55686	60141	67189	77698	..	3.4
Hydro	37830	46324	47736	48934	48932	49597	..	0.5
<i>Hydro <1MW</i>	-	-	-	-	-	-	-	-
<i>Hydro 1-10MW</i>	1378	1472	4369	4282	4256	4194	..	7.8
<i>Hydro 10+MW</i>	19447	20547	17993	17908	17932	18054	..	-0.9
<i>Mixed plants</i>	-	-	5625	5625	5625	5625	..	-
<i>Pure pumped storage</i>	17005	24305	19749	21119	21119	21724	..	-0.8
Geothermal	270	533	537	512	512	508	..	-0.3
Solar photovoltaic	1	330	3618	6632	13599	23339	..	35.6
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	84	2294	2562	2645	2753	..	28.3
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste	-	1322	1501	1501	1501	1501	..	0.9
Solid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	-	-	-	-	-	-
Liquid biofuels	-	-	-	-	-	-	-	-
Solar collectors surface (1000 m ²)	-	-	6319 e	6578 e	6578 e	6578 e	..	-
<i>Cap. of solar collectors (MW_{th})</i> ⁶	-	-	4423 e	4605 e	4605 e	4605 e	..	-

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

JAPAN

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	32.10	26.04	23.07	26.92	24.63	23.73	22.71
Hydro	28.92	23.86	20.84	21.69	19.51	19.81	20.01
<i>of which: <1MW</i>	-	-	-	-	-	-	-
<i>of which: 1-10MW</i>	58.71	58.08	53.77	43.13	43.41	43.78	45.42
<i>of which: 10+MW</i>	46.85	43.20	38.48	41.69	37.74	39.33	41.17
Geothermal	73.61	71.70	68.83	56.26	58.18	57.88	57.92
Solar photovoltaic	14.98	11.99 e	11.99 e	11.99 e	11.99 e	11.99 e	11.99 e
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	-	14.63	16.29	19.71	21.04	18.49	20.89
Industrial waste	-	-	-	-	-	-	-
Municipal waste	-	-	-	28.92 e	25.39 e	27.74 e	36.73 e
Solid biofuels	-	-	-	-	-	-	-
Biogases	-	-	-	-	-	-	-
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

KOREA

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	92.91	188.16	250.02	263.47	263.83	268.41	276.16	2.6
<i>of which: Renewables (Mtoe)</i> ¹	1.01	0.76	1.81	2.28	2.65	3.92	4.07	11.9
<i>Renewables/TPES(%)</i>	1.1	0.4	0.7	0.9	1.0	1.5	1.5	9.0
GDP (billion 2005 US dollars)	362.89	710.04	1094.50	1160.81	1194.43	1233.97	1266.20	3.9
TPES/GDP ²	0.26	0.26	0.23	0.23	0.22	0.22	0.22	-1.3
TPES/GDP (year 2005 = 100)	109	113	97	97	94	93	93	-1.3
Population (millions)	42.87	47.01	49.41	50.00	50.22	50.42	50.67	0.5
TPES/population (toe per capita)	2.17	4.00	5.06	5.27	5.25	5.32	5.45	2.1
Electricity generation (TWh) ³	105.4	288.5	496.7	530.9	537.9	545.9	545.0	4.3
<i>of which: Renewables (TWh)</i> ^{1,3}	6.36	4.11	6.19	7.09	8.78	8.55	7.75	4.3
<i>Renew./Total Elec.(%)</i> ^{1,4}	6.0	1.4	1.2	1.3	1.6	1.6	1.4	-0.0
Road energy consumption (Mtoe)	10.6	22.2	28.5	28.9	30.2	30.4	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	0.33	0.34	0.36	0.37	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	1.2	1.2	1.2	1.2	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	2341	3219 e	6759	8190	9070	10398	..	8.7
Hydro	2340	3149	5525	6447	6454	6467	..	5.3
<i>Hydro <1MW</i>	-	4	19	12	13	14	..	9.4
<i>Hydro 1-10MW</i>	-	38	82	97	94	92	..	6.5
<i>Hydro 10+MW</i>	-	1507	1524	1638	1645	1661	..	0.7
<i>Mixed plants</i>	-	-	-	-	-	-	-	-
<i>Pure pumped storage</i>	1000	1600	3900	4700	4700	4700	..	8.0
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	1	4	650	1024	1555	2481	..	58.3
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	1	-	255	255	..	-
Wind	-	7	382	464	576	612	..	37.6
Industrial waste	-	-	21	15	7	74	..	-
Municipal waste	-	11 e	39	86	75	99	..	17.0
Solid biofuels	-	48 e	46	46	49	44	..	-0.6
Biogases	-	-	95	108	99	121	..	-
Liquid biofuels	-	-	-	-	-	245	..	-
Solar collectors surface (1000 m ²)	-	1257 e	1595	1713	1762	1794	..	2.6
<i>Cap. of solar collectors (MW_{th})</i> ⁶	-	880 e	1117	1199	1233	1256	..	2.6

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

KOREA

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	31.02	20.30 e	15.73 e	15.48	15.80	16.86	15.56
Hydro	31.03	20.34	15.25	13.37	13.55	14.85	13.80
<i>of which: <1MW</i>	-	48.52	44.86	45.14	51.54	56.96	42.59
<i>of which: 1-10MW</i>	-	25.23	36.84	37.73	40.17	55.89	53.75
<i>of which: 10+MW</i>	-	29.61	26.09	24.99	24.90	26.12	15.57
Geothermal	-	-	-	-	-	-	-
Solar photovoltaic	10.59	15.08	11.74	13.57	12.30	11.78	11.76
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	21.66	22.03
Wind	-	27.21	14.98	24.41	22.55	22.76	21.37
Industrial waste	-	-	34.25 e	56.73	266.53	467.50	51.68
Municipal waste	-	37.64 e	37.59 e	60.86	46.55	55.96	41.69
Solid biofuels	-	10.94 e	22.16 e	65.12	98.87	116.39	69.06
Biogases	-	-	49.36	63.85	59.88	70.20	62.15
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	25.01

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

LUXEMBOURG

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	3.39	3.35	4.22	4.10	3.97	3.82	3.73	0.7
<i>of which: Renewables (Mtoe)</i> ¹	0.02	0.04	0.13	0.14	0.16	0.19	0.19	11.3
<i>Renewables/TPES(%)</i>	0.5	1.2	3.0	3.4	4.0	5.0	5.2	10.5
GDP (billion 2005 US dollars)	24.51	40.06	52.35	53.24	55.55	57.81	60.62	2.8
TPES/GDP ²	0.14	0.08	0.08	0.08	0.07	0.07	0.06	-2.0
TPES/GDP (year 2005 = 100)	146	88	85	81	76	70	65	-2.0
Population (millions)	0.38	0.44	0.51	0.53	0.55	0.56	0.57	1.7
TPES/population (toe per capita)	8.87	7.66	8.31	7.71	7.29	6.84	6.59	-1.0
Electricity generation (TWh) ³	0.6	0.4	3.2	2.8	1.8	1.9	1.3	7.8
<i>of which: Renewables (TWh)</i> ^{1,3}	0.08	0.17	0.27	0.31	0.37	0.40	0.41	5.8
<i>Renew./Total Elec.(%)</i> ^{1,4}	13.3	41.0	8.3	11.2	20.0	20.9	31.0	-1.8
Road energy consumption (Mtoe)	0.9	1.6	2.2	2.2	2.2	2.1	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	0.04	0.05	0.06	0.07	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	1.9	2.2	2.6	3.4	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	1139	1155	1235	1296	1320	1529	..	2.0
Hydro	1133	1133	1134	1134	1134	1330	..	1.2
<i>Hydro <1MW</i>	1	1	2	2	2	2	..	5.1
<i>Hydro 1-10MW</i>	32	32	32	32	32	32	..	-
<i>Hydro 10+MW</i>	-	-	-	-	-	-	-	-
<i>Mixed plants</i>	-	-	-	-	-	-	-	-
<i>Pure pumped storage</i>	1100	1100	1100	1100	1100	1296	..	1.2
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	29	75	95	110	..	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	14	44	58	58	58	..	10.7
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste	6	8	19	19	19	17	..	5.5
Solid biofuels	-	-	-	-	4	4	..	-
Biogases	-	-	9	10	10	10	..	-
Liquid biofuels	-	-	-	-	-	-	-	-
Solar collectors surface (1000 m ²)	-	-	29	44	46	48	..	-
<i>Cap. of solar collectors (MW_{th})</i> ⁶	-	-	20	31	32	34	..	-

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

LUXEMBOURG

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	8.59	9.43	9.68	15.48	12.58	12.70	11.30
Hydro	8.29	8.77	8.83	14.78	11.67	11.66	10.03
<i>of which: <1MW</i>	34.25	68.49	27.49	43.68	27.24	33.65	31.68
<i>of which: 1-10MW</i>	23.90	41.96	31.44	35.68	33.37	40.42	36.47
<i>of which: 10+MW</i>	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-
Solar photovoltaic	-	-	8.42	8.32	5.83	8.86	9.83
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	-	22.02	17.04	14.29	15.25	16.34	15.72
Industrial waste	-	-	-	-	-	-	-
Municipal waste	64.69 e	73.48	68.47	44.80	57.56	56.89	59.88
Solid biofuels	-	-	-	-	-	5.58	59.95
Biogases	-	-	62.15	70.98	65.98	64.46	69.08
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

MEXICO

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	123.68	150.00	174.76	191.71	192.10	187.98	187.33	1.5
<i>of which: Renewables (Mtoe)</i> ¹	14.99	16.91	15.15	14.55	15.00	15.93	15.45	-0.6
<i>Renewables/TPES(%)</i>	12.1	11.3	8.7	7.6	7.8	8.5	8.2	-2.1
GDP (billion 2005 US dollars)	617.85	869.29	1049.93	1135.15	1150.98	1176.66	1205.66	2.2
TPES/GDP ²	0.20	0.17	0.17	0.17	0.17	0.16	0.16	-0.7
TPES/GDP (year 2005 = 100)	107	92	89	90	89	85	83	-0.7
Population (millions)	87.07	100.90	114.26	117.05	118.40	119.71	121.10	1.2
TPES/population (toe per capita)	1.42	1.49	1.53	1.64	1.62	1.57	1.55	0.3
Electricity generation (TWh) ³	115.8	205.7	275.5	307.3	297.3	301.5	307.4	2.7
<i>of which: Renewables (TWh)</i> ^{1,3}	28.60	40.73	45.75	42.36	39.54	52.89	46.61	0.9
<i>Renew./Total Elec.(%)</i> ^{1,4}	24.7	19.8	16.6	13.8	13.3	17.5	15.2	-1.8
Road energy consumption (Mtoe)	27.2	33.9	49.7	50.2	49.7	49.8	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	-	-	-	-	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	-	-	-	-	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	8546	10868	13531	14846	15215	16611	..	3.1
Hydro	7838	9653	11597	11626	11633	12464	..	1.8
<i>Hydro <1MW</i>	-	6	3	3	3	3	..	-4.8
<i>Hydro 1-10MW</i>	33	136	98	108	95	117	..	-1.1
<i>Hydro 10+MW</i>	7805	9511	11496	11515	11535	12344	..	1.9
<i>Mixed plants</i>	-	-	-	-	-	-	-	-
<i>Pure pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	700	855	965	824	823	813	..	-0.4
Solar photovoltaic	5	14	29	53	67	99	..	15.0
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	3	17	519	1815	2122	2569	..	43.1
Industrial waste	-	-	16	83	54	42	..	-
Municipal waste	-	-	-	-	-	-	-	-
Solid biofuels	-	321	384	406	478	569	..	4.2
Biogases	-	8	21	39	38	55	..	14.8
Liquid biofuels	-	-	-	-	-	-	-	-
Solar collectors surface (1000 m ²)	-	373	1666	2208	2501	2810	..	15.5
<i>Cap. of solar collectors (MW_{th})</i> ⁶	-	261	1166	1546	1751	1967	..	15.5

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

MEXICO

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	38.21	42.78	35.98	38.64	32.78	29.77	36.40
Hydro	34.19	39.18	29.79	36.55	31.31	27.48	35.62
<i>of which: <1MW</i>	-	28.54	39.95	39.36	38.76	38.05	37.66
<i>of which: 1-10MW</i>	48.43	37.60	35.36	45.57	41.94	46.90	40.75
<i>of which: 10+MW</i>	34.13	39.21	29.70	36.47	31.20	27.32	35.57
Geothermal	83.56	78.79	86.79	78.29	80.59	84.19	84.24
Solar photovoltaic	2.28	5.71	6.42	12.20	14.86	18.14	25.45
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	3.81	12.76	12.05	27.25	23.20	22.51	28.56
Industrial waste	-	-	-	34.10	36.55	29.96	20.85
Municipal waste	-	-	-	-	-	-	-
Solid biofuels	-	58.86	73.51	18.14	21.22	24.35	23.85
Biogases	-	24.26	31.96	64.24	43.75	48.17	34.19
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

NETHERLANDS

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	65.71	75.47	83.50	77.85	77.30	72.95	71.71	-0.3
<i>of which: Renewables (Mtoe)</i> ¹	0.76	1.35	3.25	3.54	3.44	3.44	3.62	6.8
<i>Renewables/TPES(%)</i>	1.2	1.8	3.9	4.6	4.5	4.7	5.1	7.2
GDP (billion 2005 US dollars)	530.53	734.69	836.39	841.32	837.15	845.61	862.45	1.1
TPES/GDP ²	0.12	0.10	0.10	0.09	0.09	0.09	0.08	-1.4
TPES/GDP (year 2005 = 100)	119	99	96	89	89	83	80	-1.4
Population (millions)	14.95	15.92	16.61	16.75	16.80	16.86	16.93	0.4
TPES/population (toe per capita)	4.40	4.74	5.03	4.65	4.60	4.33	4.24	-0.7
Electricity generation (TWh) ³	71.9	89.6	119.3	103.3	101.7	103.4	110.0	1.4
<i>of which: Renewables (TWh)</i> ^{1,3}	0.81	2.97	11.20	12.51	12.18	11.71	13.61	10.7
<i>Renew./Total Elec.(%)</i> ^{1,4}	1.1	3.3	9.4	12.1	12.0	11.3	12.4	9.2
Road energy consumption (Mtoe)	8.4	10.4	11.1	10.8	10.5	9.8	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	0.23	0.31	0.30	0.35	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	2.1	2.9	2.8	3.6	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	308	1022	3855	4362	4871	5161	..	12.3
Hydro	37	37	37	37	37	37	..	-
<i>Hydro <1MW</i>	-	-	-	-	-	-	-	-
<i>Hydro 1-10MW</i>	-	-	-	-	-	-	-	-
<i>Hydro 10+MW</i>	37	37	37	37	37	37	..	-
<i>Mixed plants</i>	-	-	-	-	-	-	-	-
<i>Pure pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	1	13	90	369	746	1048	..	36.8
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	50	447	2237	2433	2713	2865	..	14.2
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste	196	394	586	649	649	649	..	3.6
Solid biofuels	5	72	688	655	496	325	..	11.4
Biogases	19	59	200	219	230	237	..	10.4
Liquid biofuels	-	-	17	-	-	-	-	-
Solar collectors surface (1000 m ²)	73	276	576	615	633	644	..	6.2
<i>Cap. of solar collectors (MW_{th})</i> ⁶	51	193	403	431	443	451	..	6.3

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

NETHERLANDS

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	44.48	46.69	38.20	37.79	37.35	32.53	29.49
Hydro	26.22	43.94	27.15	32.40	32.21	35.27	34.62
<i>of which: <1MW</i>	-	-	-	-	-	-	-
<i>of which: 1-10MW</i>	-	-	-	-	-	-	-
<i>of which: 10+MW</i>	26.22	43.94	27.15	32.40	32.21	35.27	34.62
Geothermal	-	-	-	-	-	-	-
Solar photovoltaic	4.79	6.75	7.93	7.09	7.00	7.46	8.55
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	12.79	21.17	19.27	20.38	23.37	23.68	23.10
Industrial waste	-	-	-	-	-	-	-
Municipal waste	54.34	71.87	71.68	64.81	70.20	66.39	62.17
Solid biofuels	78.69	68.92	74.56	69.65	69.02	66.71	73.72
Biogases	54.80	55.24	49.46	58.67	52.58	48.63	48.43
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	33.16	36.37	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

NEW ZEALAND

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	12.83	17.09	18.38	19.21	19.37	20.56	20.43	1.2
<i>of which: Renewables (Mtoe)</i> ¹	4.22	5.17	7.11	7.22	7.55	8.22	8.26	3.2
<i>Renewables/TPES(%)</i>	32.9	30.3	38.7	37.6	39.0	40.0	40.5	2.0
GDP (billion 2005 US dollars)	82.82	111.80	146.58	154.65	157.09	162.07	167.57	2.7
TPES/GDP ²	0.15	0.15	0.13	0.12	0.12	0.13	0.12	-1.5
TPES/GDP (year 2005 = 100)	124	123	101	100	99	102	98	-1.5
Population (millions)	3.37	3.87	4.36	4.42	4.46	4.46	4.50	1.0
TPES/population (toe per capita)	3.81	4.42	4.21	4.35	4.34	4.61	4.54	0.2
Electricity generation (TWh) ³	32.3	39.2	44.9	44.3	43.3	43.6	44.2	0.8
<i>of which: Renewables (TWh)</i> ^{1,3}	25.81	28.06	32.83	31.81	32.13	34.46	35.40	1.6
<i>Renew./Total Elec.(%)</i> ^{1,4}	80.0	71.5	73.2	71.9	74.3	79.1	80.1	0.8
Road energy consumption (Mtoe)	2.5	3.5	4.1	4.1	4.2	4.3	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	0.00	0.01	0.00	0.00	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	0.1	0.1	0.1	0.1	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	4956	5732	6623	6729	6823	7065	..	1.5
Hydro	4619	5193	5253	5253	5262	5263	..	0.1
<i>Hydro <1MW</i>	-	3	9	9	9	9	..	8.2
<i>Hydro 1-10MW</i>	-	112	98	98	107	107	..	-0.3
<i>Hydro 10+MW</i>	-	5078	5146	5146	5146	5147	..	0.1
<i>Mixed plants</i>	-	-	-	-	-	-	-	-
<i>Pure pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	261	418	731	731	813	979	..	6.3
Solar photovoltaic	-	-	-	4	7	19	..	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	36	524	623	623	683	..	23.4
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-	-
Solid biofuels	57	68	77	77	77	77	..	0.9
Biogases	19	17	38	41	41	44	..	7.0
Liquid biofuels	-	-	-	-	-	-	-	-
Solar collectors surface (1000 m ²)	-	-	128	128	128	128	..	-
<i>Cap. of solar collectors (MW_{th})</i> ⁶	-	-	90	90	90	90	..	-

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

NEW ZEALAND

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	59.46	55.89	51.99	56.59	53.96	53.75	55.68
Hydro	57.30	53.71	49.81	53.71	49.77	49.99	52.78
<i>of which: <1MW</i>	-	-	52.96	57.76	75.79	72.26	92.87
<i>of which: 1-10MW</i>	-	-	51.57	46.91	49.92	45.22	49.50
<i>of which: 10+MW</i>	-	-	49.77	53.83	49.72	50.05	52.78
Geothermal	93.23	79.78	83.30	91.87	96.72	90.09	84.63
Solar photovoltaic	-	-	-	-	13.63	11.16	9.71
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	-	38.11	41.74	35.59	38.03	37.09	37.01
Industrial waste	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-
Solid biofuels	72.10	80.22	41.70	54.85	57.24	58.53	57.72
Biogases	84.07	73.85	71.62	69.38	68.11	67.61	63.49
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

NORWAY

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	21.07	26.16	33.90	29.64	32.59	28.75	30.19	1.0
<i>of which: Renewables (Mtoe)</i> ¹	11.40	13.49	11.68	13.83	12.60	13.10	13.47	-0.0
<i>Renewables/TPES(%)</i>	54.1	51.6	34.4	46.7	38.7	45.6	44.6	-1.0
GDP (billion 2005 US dollars)	255.70	367.06	428.53	444.57	449.01	458.96	466.29	1.6
TPES/GDP ²	0.08	0.07	0.08	0.07	0.07	0.06	0.06	-0.6
TPES/GDP (year 2005 = 100)	126	109	121	102	111	96	99	-0.6
Population (millions)	4.24	4.49	4.89	5.02	5.08	5.14	5.19	1.0
TPES/population (toe per capita)	4.97	5.83	6.93	5.91	6.42	5.60	5.81	-0.0
Electricity generation (TWh) ³	121.6	142.5	123.2	146.6	133.4	141.6	144.3	0.1
<i>of which: Renewables (TWh)</i> ^{1,3}	121.36	142.11	117.98	143.65	130.37	138.31	141.01	-0.1
<i>Renew./Total Elec.(%)</i> ^{1,4}	99.8	99.7	95.7	98.0	97.7	97.7	97.7	-0.1
Road energy consumption (Mtoe)	2.6	3.0	3.6	3.3	3.5	3.6	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	0.12	0.13	0.13	0.13	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	3.3	4.1	3.7	3.6	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	26951	28206 e	30259	31387	32024	32189	..	0.9
Hydro	26884	28126	29693	30509	31033	31153	..	0.7
<i>Hydro <1MW</i>	42 e	48	48	61	61	61	..	1.7
<i>Hydro 1-10MW</i>	800 e	843	1395	1606	1606	1606	..	4.7
<i>Hydro 10+MW</i>	24975 e	25875	26924	27491	28015	28135	..	0.6
<i>Mixed plants</i>	1067	1360	1326	1351	1351	1351	..	-0.0
<i>Pure pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	6 e	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	13	425	705	818	863	..	34.9
Industrial waste	-	-	..	..	..	..	-	..
Municipal waste	26 e	26 e	49	77	77	77	..	8.1
Solid biofuels	41 e	35 e	79	79	79	79	..	6.0
Biogases	-	-	13	17	17	17	..	-
Liquid biofuels	-	-	-	-	-	-	-	-
Solar collectors surface (1000 m ²)	-	-	..	..	..	..	-	..
<i>Cap. of solar collectors (MW_{th})</i> ⁶	-	-	..	..	..	..	-	..

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

NORWAY

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	51.52	57.72 e	54.19	44.70	52.70	46.73	49.38
Hydro	51.54	57.75	54.56	45.04	53.44	47.34	50.07
<i>of which: <1MW</i>	- e	55.65	103.90	40.43	31.81	44.52	47.47
<i>of which: 1-10MW</i>	- e	58.46	56.48	40.57	34.78	49.72	53.01
<i>of which: 10+MW</i>	55.37 e	60.56	56.83	47.33	56.75	49.27	52.01
Geothermal	-	-	-	-	-	-	-
Solar photovoltaic	-	- e	- e	-	-	-	-
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	-	27.22	21.50	23.61	25.07	26.25	29.31
Industrial waste	-	-	13.70 e	..	..	..	..
Municipal waste	25.47 e	26.34 e	37.76	43.10	41.36	47.14	52.04
Solid biofuels	51.23 e	73.71 e	41.91	35.26	29.33	24.57	1.73
Biogases	-	-	-	11.42	10.07	8.73	8.73
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

POLAND

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	103.11	88.77	100.44	97.69	97.60	94.02	94.59	0.4
<i>of which: Renewables (Mtoe)</i> ¹	1.58	3.80	7.29	8.62	8.56	8.59	9.07	6.0
<i>Renewables/TPES(%)</i>	1.5	4.3	7.3	8.8	8.8	9.1	9.6	5.5
GDP (billion 2005 US dollars)	226.98	326.66	479.24	511.11	517.57	534.56	554.07	3.6
TPES/GDP ²	0.45	0.27	0.21	0.19	0.19	0.18	0.17	-3.1
TPES/GDP (year 2005 = 100)	188	112	87	79	78	73	71	-3.1
Population (millions)	38.03	38.26	38.52	38.53	38.50	38.48	38.52	0.0
TPES/population (toe per capita)	2.71	2.32	2.61	2.54	2.53	2.44	2.46	0.4
Electricity generation (TWh) ³	134.4	143.2	157.1	161.7	164.0	158.5	164.2	0.9
<i>of which: Renewables (TWh)</i> ^{1,3}	1.47	2.33	10.89	16.88	17.07	19.84	22.68	16.4
<i>Renew./Total Elec.(%)</i> ^{1,4}	1.1	1.6	6.9	10.4	10.4	12.5	13.8	15.3
Road energy consumption (Mtoe)	6.0	8.9	16.3	15.8	14.8	14.9	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	0.89	0.82	0.75	0.71	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	5.4	5.2	5.1	4.7	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	1888	2199	3587	5502	6524	7046	..	8.7
Hydro	1888	2183	2342	2351	2355	2364	..	0.6
<i>Hydro <1MW</i>	31	57	78	88	88	89	..	3.2
<i>Hydro 1-10MW</i>	130	145	185	185	189	185	..	1.8
<i>Hydro 10+MW</i>	306	307	297	296	296	308	..	0.0
<i>Mixed plants</i>	216	308	376	376	376	376	..	1.4
<i>Pure pumped storage</i>	1205	1366	1406	1406	1406	1406	..	0.2
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	-	1	2	27	..	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	4	1108	2564	3429	3836	..	63.3
Industrial waste	-	3	3	3	3	3	..	-
Municipal waste	-	-	-	-	-	-	-	-
Solid biofuels	-	-	53	455	582	629	..	-
Biogases	-	9	81	128	153	187	..	24.2
Liquid biofuels	-	-	-	-	-	-	-	-
Solar collectors surface (1000 m ²)	-	-	656	1200	1470	1730	..	-
<i>Cap. of solar collectors (MW_{th})</i> ⁶	-	-	459	840	1029	1211	..	-

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

POLAND

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	21.59	22.94	24.95	36.61	35.97	30.90	33.12
Hydro	20.03	21.52	18.58	17.00	11.97	14.53	13.20
<i>of which: <1MW</i>	33.88	59.68	56.79	45.18	41.60	45.65	41.30
<i>of which: 1-10MW</i>	26.34	33.22	33.08	44.84	38.23	38.97	34.84
<i>of which: 10+MW</i>	38.24	51.54	51.63	72.43	42.30	55.61	48.03
Geothermal	-	-	-	-	-	-	-
Solar photovoltaic	-	-	-	-	12.76	8.46	2.91
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	-	14.27	12.78	17.15	21.13	19.99	22.84
Industrial waste	-	295.27	154.11	134.36	78.48	87.52	142.51
Municipal waste	-	-	-	-	-	-	-
Solid biofuels	-	-	639.20	1271.91	239.07	155.58	166.25
Biogases	-	39.32	42.34	56.14	50.42	51.46	49.83
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

PORTUGAL

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	16.78	24.59	23.50	21.44	21.52	21.16	22.08	-0.7
<i>of which: Renewables (Mtoe)</i> ¹	3.28	3.76	5.46	4.35	5.33	5.54	4.75	1.6
<i>Renewables/TPES(%)</i>	19.5	15.3	23.2	20.3	24.7	26.2	21.5	2.3
GDP (billion 2005 US dollars)	166.59	221.37	238.30	224.53	221.99	224.00	227.27	0.2
TPES/GDP ²	0.10	0.11	0.10	0.10	0.10	0.09	0.10	-0.9
TPES/GDP (year 2005 = 100)	88	97	86	83	85	83	85	-0.9
Population (millions)	10.00	10.29	10.57	10.52	10.46	10.40	10.41	0.1
TPES/population (toe per capita)	1.68	2.39	2.22	2.04	2.06	2.03	2.12	-0.8
Electricity generation (TWh) ³	28.4	43.4	53.7	45.6	50.5	52.0	51.0	1.1
<i>of which: Renewables (TWh)</i> ^{1,3}	9.85	12.87	28.35	19.37	29.47	31.56	24.06	4.3
<i>Renew./Total Elec.(%)</i> ^{1,4}	34.7	29.7	52.8	42.5	58.3	60.7	47.2	3.1
Road energy consumption (Mtoe)	3.0	5.6	6.1	5.2	5.1	5.2	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	0.31	0.27	0.26	0.26	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	5.1	5.2	5.1	5.0	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	3550	4917	9657	11008	11196	11626	..	6.3
Hydro	3356	4535	5106	5712	5661	5715	..	1.7
<i>Hydro <1MW</i>	8	27	34	32	32	32	..	1.2
<i>Hydro 1-10MW</i>	72	236	343	348	341	356	..	3.0
<i>Hydro 10+MW</i>	2614	3610	3635	3989	3921	3911	..	0.6
<i>Mixed plants</i>	662	662	1094	1343	1367	1416	..	5.6
<i>Pure pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	1	14	25	25	25	25	..	4.2
Solar photovoltaic	-	1	134	238	296	415	..	53.8
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	1	..	-
Wind	1	83	3796	4412	4610	4856	..	33.7
Industrial waste	-	-	12	15	15	15	..	-
Municipal waste	-	64	77	76	76	77	..	1.3
Solid biofuels	192 e	219	482	479	458	456	..	5.4
Biogases	-	1	25	51	55	66	..	34.9
Liquid biofuels	-	-	-	-	-	-	-	-
Solar collectors surface (1000 m ²)	150	238	752	967	1024	1079	..	11.4
<i>Cap. of solar collectors (MW_{th})</i> ⁶	105	167	526	677	717	755	..	11.4

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

PORTUGAL

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	32.15	31.38	15.82	34.37	21.43	31.51	32.06
Hydro	31.64	29.49	11.64	36.99	13.31	29.98	32.78
<i>of which: <1MW</i>	41.38	30.86	20.67	34.82	26.36	35.98	38.66
<i>of which: 1-10MW</i>	-	38.94	18.10	36.60	18.15	36.64	42.09
<i>of which: 10+MW</i>	39.86	33.03	13.38	46.93	14.30	36.50	41.29
Geothermal	45.66	65.23	57.82	90.00	66.88	89.76	93.78
Solar photovoltaic	-	11.42	17.12	18.00	18.83	18.48	17.26
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	0.30
Wind	11.42	23.11	19.03	27.61	26.55	29.75	28.47
Industrial waste	-	-	25.39	36.78	7.04	6.67	6.95
Municipal waste	-	91.68 e	87.81	85.54	73.61	85.81	71.30
Solid biofuels	40.97 e	54.05	56.45	52.71	59.49	62.71	63.34
Biogases	-	22.83	49.45	45.49	46.89	51.80	47.93
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

SLOVAK REPUBLIC

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	21.33	17.74	17.83	16.66	16.95	15.95	16.29	-0.6
<i>of which: Renewables (Mtoe)</i> ¹	0.33	0.49	1.32	1.36	1.41	1.42	1.39	7.2
<i>Renewables/TPES(%)</i>	1.5	2.8	7.4	8.2	8.3	8.9	8.5	7.8
GDP (billion 2005 US dollars)	51.10	55.49	89.25	93.18	94.51	96.90	100.38	4.0
TPES/GDP ²	0.42	0.32	0.20	0.18	0.18	0.16	0.16	-4.4
TPES/GDP (year 2005 = 100)	157	120	75	67	67	62	61	-4.4
Population (millions)	5.30	5.40	5.43	5.41	5.41	5.42	5.44	0.0
TPES/population (toe per capita)	4.03	3.29	3.28	3.08	3.13	2.94	3.00	-0.6
Electricity generation (TWh) ³	25.5	30.8	27.5	28.3	28.5	27.1	26.0	-1.1
<i>of which: Renewables (TWh)</i> ^{1,3}	1.88	4.62	5.94	5.47	6.35	6.23	5.90	1.7
<i>Renew./Total Elec.(%)</i> ^{1,4}	7.4	15.0	21.6	19.3	22.3	22.9	22.7	2.8
Road energy consumption (Mtoe)	1.3	1.3	2.1	2.0	2.0	2.0	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	0.10	0.09	0.10	0.13	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	4.6	4.5	4.9	6.6	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	..	2420	2723	3255	3280	3312	..	2.3
Hydro	..	2420	2516	2522	2523	2523	..	0.3
<i>Hydro <1MW</i>	-	-	26	26	24	24	..	-
<i>Hydro 1-10MW</i>	-	-	66	45	48	48	..	-
<i>Hydro 10+MW</i>	1508	1535	1535	1535	..	..
<i>Mixed plants</i>	-	-	-	-	-	-	-	-
<i>Pure pumped storage</i>	..	735 e	916	916	916	916	..	1.6
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	19	513	533	533	..	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	3	3	5	3	..	-
Industrial waste	2	2	3	11	..	..
Municipal waste	-	-	5	5	5	11	..	-
Solid biofuels	-	-	169	169	176	153	..	-
Biogases	-	-	9	41	35	78	..	-
Liquid biofuels	-	-	-	-	-	-	-	-
Solar collectors surface (1000 m ²)	-	-	123	154	160	166	..	-
<i>Cap. of solar collectors (MW_{th})</i> ⁶	-	-	86	108	112	116	..	-

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

SLOVAK REPUBLIC

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	..	23.62	21.34	26.65	20.46	23.30	22.43
Hydro	..	23.47	21.54	25.63	20.09	23.37	20.19
<i>of which: <1MW</i>	-	-	26.40	24.15	15.81	18.55	21.40
<i>of which: 1-10MW</i>	-	-	5.71	8.48	18.52	23.31	24.73
<i>of which: 10+MW</i>	34.07	38.99	29.70	35.03	30.19
Geothermal	-	-	-	-	-	-	-
Solar photovoltaic	-	-	-	10.18	9.44	12.59	12.79
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	-	-	13.70	22.83	22.83	13.70	22.83
Industrial waste	..	- e	..	62.79	62.79	49.47	14.53
Municipal waste	-	-	89.42 e	79.91	93.61	73.06	34.25
Solid biofuels	-	-	1.04	40.93	48.90	43.91	68.34
Biogases	-	-	28.54	43.13	52.90	69.47	70.10
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

SLOVENIA

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	5.71	6.41	7.33	7.04	6.86	6.67	6.55	0.1
<i>of which: Renewables (Mtoe)</i> ¹	0.52	0.79	1.13	1.08	1.18	1.22	1.05	2.0
<i>Renewables/TPES(%)</i>	9.1	12.3	15.4	15.3	17.2	18.3	16.1	1.8
GDP (billion 2005 US dollars)	30.86	36.94	48.01	47.01	46.51	47.93	49.31	1.9
TPES/GDP ²	0.19	0.17	0.15	0.15	0.15	0.14	0.13	-1.8
TPES/GDP (year 2005 = 100)	112	105	92	91	89	84	80	-1.8
Population (millions)	2.00	1.99	2.05	2.06	2.06	2.06	2.07	0.3
TPES/population (toe per capita)	2.86	3.22	3.58	3.42	3.33	3.24	3.16	-0.1
Electricity generation (TWh) ³	12.4	13.6	16.3	15.5	15.8	17.2	14.8	0.6
<i>of which: Renewables (TWh)</i> ^{1,3}	2.95	3.90	4.75	4.33	5.11	6.61	4.35	0.7
<i>Renew./Total Elec.(%)</i> ^{1,4}	23.7	28.7	29.2	27.8	32.3	38.5	29.4	0.2
Road energy consumption (Mtoe)	0.9	1.2	1.8	1.9	1.8	1.8	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	0.05	0.05	0.06	0.04	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	2.6	2.8	3.4	2.5	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	755	860	1315	1457	1551	1587	..	4.5
Hydro	755	843	1254	1254	1299	1296	..	3.1
<i>Hydro <1MW</i>	-	95	118	119	120	119	..	1.6
<i>Hydro 1-10MW</i>	-	32	42	41	41	38	..	1.2
<i>Hydro 10+MW</i>	-	716	914	914	958	959	..	2.1
<i>Mixed plants</i>	-	-	-	-	-	-	-	-
<i>Pure pumped storage</i>	-	-	180	180	180	180	..	-
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	12	142	187	223	..	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	4	4	..	-
Industrial waste	-	-	2	2	2	2	..	-
Municipal waste	-	-	-	-	-	-	-	-
Solid biofuels	-	15	33	30	30	30	..	5.1
Biogases	-	2	14	29	28	31	..	21.6
Liquid biofuels	-	-	-	-	1	1	..	-
Solar collectors surface (1000 m ²)	-	-	..	..	..	..	-	..
<i>Cap. of solar collectors (MW_{th})</i> ⁶	-	-	..	..	..	..	-	..

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

SLOVENIA

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	44.60	51.83	40.91	42.86	35.44	39.82	49.58
Hydro	44.60	51.93	40.36	42.81	37.20	43.27	56.07
<i>of which: <1MW</i>	-	20.33	25.20	17.60	13.60	17.67	23.51
<i>of which: 1-10MW</i>	-	60.96	46.60	58.16	44.92	53.86	75.28
<i>of which: 10+MW</i>	-	55.72	42.03	51.49	44.91	50.65	66.61
Geothermal	-	-	-	-	-	-	-
Solar photovoltaic	-	-	-	12.23	13.09	13.13	13.15
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	-	-	-	-	-	12.05	12.01
Industrial waste	-	-	32.09	26.01	34.65	41.97	41.48
Municipal waste	-	-	-	-	-	-	-
Solid biofuels	-	44.08	71.61	41.35	43.45	45.21	47.49
Biogases	-	67.39	73.44	79.38	60.27	57.46	47.78
Biodiesels	-	-	-	-	-	11.26	44.18
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

SPAIN

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	90.07	121.86	127.75	125.51	117.11	114.56	119.43	-0.1
<i>of which: Renewables (Mtoe)</i> ¹	6.20	6.81	15.05	16.14	17.74	17.77	17.14	6.3
<i>Renewables/TPES(%)</i>	6.9	5.6	11.8	12.9	15.2	15.5	14.4	6.5
GDP (billion 2005 US dollars)	873.15	1149.49	1431.59	1380.13	1357.06	1375.52	1419.73	1.4
TPES/GDP ²	0.10	0.11	0.09	0.09	0.09	0.08	0.08	-1.5
TPES/GDP (year 2005 = 100)	99	101	85	87	83	80	80	-1.5
Population (millions)	39.34	40.55	46.56	46.77	46.59	46.46	46.66	0.9
TPES/population (toe per capita)	2.29	3.00	2.74	2.68	2.51	2.47	2.56	-1.1
Electricity generation (TWh) ³	151.2	220.9	298.3	293.9	281.4	274.9	277.2	1.5
<i>of which: Renewables (TWh)</i> ^{1,3}	26.03	34.49	97.78	86.96	111.41	110.27	96.96	7.1
<i>Renew./Total Elec.(%)</i> ^{1,4}	17.2	15.6	32.8	29.6	39.6	40.1	35.0	5.5
Road energy consumption (Mtoe)	17.7	26.2	29.5	25.1	25.1	25.5	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	0.07	1.44	2.06	0.89	0.95	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	0.3	4.9	8.2	3.5	3.7	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	15804	20472	44854	49117	50389	50469	..	6.7
Hydro	15657	17960	18535	18550	19185	19223	..	0.5
<i>Hydro <1MW</i>	-	228	273	279	280	280	..	1.5
<i>Hydro 1-10MW</i>	-	1339	1653	1663	1668	1668	..	1.6
<i>Hydro 10+MW</i>	-	11040	11349	11351	12128	12133	..	0.7
<i>Mixed plants</i>	2640	2935	2811	2792	2654	2687	..	-0.6
<i>Pure pumped storage</i>	2418	2418	2449	2465	2455	2455	..	0.1
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	3	12	3921	4646	4785	4787	..	53.4
Solar thermal	-	-	732	2000	2300	2300	..	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	2	2206	20693	22789	22958	22975	..	18.2
Industrial waste	-	-	-	50	50	50	..	-
Municipal waste	27	94	223	224	234	234	..	6.7
Solid biofuels	115	150	545	640	657	677	..	11.4
Biogases	-	50	205	218	220	223	..	11.3
Liquid biofuels	-	-	-	-	-	-	-	-
Solar collectors surface (1000 m ²)	281	403	2373	2855	3094	3348	..	16.3
<i>Cap. of solar collectors (MW_{th})</i> ⁶	197	282	1661	1999	2166	2344	..	16.3

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

SPAIN

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	19.41 e	21.55 e	18.71	25.87	21.22	26.34	25.96
Hydro	19.09	20.22	14.43	28.03	14.87	24.43	25.52
<i>of which: <1MW</i>	-	25.27	20.59	36.80	18.30	30.69	29.92
<i>of which: 1-10MW</i>	-	34.46	26.63	54.92	17.07	38.06	36.59
<i>of which: 10+MW</i>	-	24.52	14.89	33.67	17.71	28.76	31.13
Geothermal	-	-	-	-	-	-	-
Solar photovoltaic	22.83	17.12	7.82	18.70	20.13	19.87	19.60
Solar thermal	-	-	-	11.87	21.55	23.67	27.07
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	79.91	24.46	24.37	24.42	24.78	27.67	25.84
Industrial waste	-	-	..	..	..	..	..
Municipal waste	67.65 e	81.00 e	54.50 e	67.47	72.88	66.52	66.95
Solid biofuels	45.86 e	64.00	50.89	52.53	60.57	72.00	64.42
Biogases	-	72.60 e	46.82	47.22	45.35	50.50	46.44
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

SWEDEN

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	47.20	47.56	50.90	50.16	49.41	48.16	50.00	0.3
<i>of which: Renewables (Mtoe)</i> ¹	11.53	14.74	17.00	18.52	17.08	17.27	22.95	3.0
<i>Renewables/TPES(%)</i>	24.4	31.0	33.4	36.9	34.6	35.9	45.9	2.7
GDP (billion 2005 US dollars)	321.07	396.53	488.38	499.95	506.16	517.63	538.83	2.1
TPES/GDP ²	0.15	0.12	0.10	0.10	0.10	0.09	0.09	-1.7
TPES/GDP (year 2005 = 100)	129	105	91	88	85	81	81	-1.7
Population (millions)	8.56	8.87	9.38	9.52	9.60	9.70	9.77	0.6
TPES/population (toe per capita)	5.51	5.36	5.43	5.27	5.15	4.97	5.12	-0.3
Electricity generation (TWh) ³	146.0	145.2	148.5	166.4	153.0	153.6	161.4	0.7
<i>of which: Renewables (TWh)</i> ^{1,3}	74.45	83.14	82.10	98.31	82.69	85.74	100.77	1.3
<i>Renew./Total Elec.(%)</i> ^{1,4}	51.0	57.2	55.3	59.1	54.0	55.8	62.4	0.6
Road energy consumption (Mtoe)	6.1	6.7	7.3	7.1	7.1	7.3	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	0.40	0.61	0.72	0.88	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	5.5	8.6	10.1	12.1	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	17569	18319	22716	24876	25293	26055	..	2.5
Hydro	16331	16525	16732	16414	16494	15996	..	-0.2
<i>Hydro <1MW</i>	-	178	143	186	189	171	..	-0.3
<i>Hydro 1-10MW</i>	-	741	798	767	803	762	..	0.2
<i>Hydro 10+MW</i>	-	15587	15683	15362	15403	14964	..	-0.3
<i>Mixed plants</i>	-	-	-	-	-	-	-	-
<i>Pure pumped storage</i>	427	19	108	99	99	99	..	12.5
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	3	11	24	43	60	..	23.9
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	8	209	2019	3607	4194	5097	..	25.6
Industrial waste	-	-	100	191	209	190	..	-
Municipal waste	30	74	654	585	680	459	..	13.9
Solid biofuels	1200	1490	3178	3522	3120	3729	..	6.8
Biogases	-	18	22	5	5	2	..	-14.5
Liquid biofuels	-	-	-	528	548	522	..	-
Solar collectors surface (1000 m ²)	90	207	510	322	475	475	..	6.1
<i>Cap. of solar collectors (MW_{th})</i> ⁶	63	145	357	225	333	333	..	6.1

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

SWEDEN

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	48.76	51.98	47.32	41.91	45.75	37.96	38.15
Hydro	51.05	54.31	50.90	45.37	54.98	42.56	45.58
<i>of which: <1MW</i>	-	48.29	37.35	43.48	49.28	33.98	45.51
<i>of which: 1-10MW</i>	-	52.79	45.17	46.54	53.03	34.93	46.25
<i>of which: 10+MW</i>	-	54.49	51.39	45.57	55.41	43.24	45.77
Geothermal	-	-	-	-	-	-	-
Solar photovoltaic	-	5.40	6.07	8.92	9.04	9.29	8.94
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	8.56	24.96	21.67	19.80	22.68	26.79	25.16
Industrial waste	-	-	7.70	6.99	9.08	8.63	8.71
Municipal waste	39.19	36.87	51.35	49.91	54.05	47.63	67.40
Solid biofuels	18.09 e	30.42	30.95	36.85	34.06	35.16	27.57
Biogases	-	20.29	14.52	18.89	45.66	45.66	79.91
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	0.11	2.48	1.07

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

SWITZERLAND

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	24.36	25.01	26.19	25.61	26.73	25.06	24.52	-0.1
<i>of which: Renewables (Mtoe)</i> ¹	3.63	4.43	4.98	5.30	5.42	5.29	5.48	1.4
<i>Renewables/TPES(%)</i>	14.9	17.7	19.0	20.7	20.3	21.1	22.4	1.6
GDP (billion 2005 US dollars)	429.00	483.40	581.21	598.35	608.94	620.44	626.08	1.7
TPES/GDP ²	0.06	0.05	0.05	0.04	0.04	0.04	0.04	-1.8
TPES/GDP (year 2005 = 100)	114	104	90	86	88	81	79	-1.8
Population (millions)	6.80	7.25	7.86	8.00	8.09	8.19	8.26	0.9
TPES/population (toe per capita)	3.58	3.45	3.33	3.20	3.30	3.06	2.97	-1.0
Electricity generation (TWh) ³	55.0	66.1	66.1	68.1	68.7	70.1	65.9	-0.0
<i>of which: Renewables (TWh)</i> ^{1,3}	30.24	37.69	37.47	40.53	40.68	40.67	41.08	0.6
<i>Renew./Total Elec.(%)</i> ^{1,4}	55.0	57.0	56.7	59.5	59.2	58.0	62.4	0.6
Road energy consumption (Mtoe)	4.8	5.5	5.7	5.6	5.6	5.6	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	0.01	0.01	0.01	0.02	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	0.2	0.2	0.2	0.3	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	11818	13565	14280	14719	15064	15194	..	0.8
Hydro	11665	13239	13723	13802	13817	13743	..	0.3
<i>Hydro <1MW</i>	115	125	143	148	156	173	..	2.3
<i>Hydro 1-10MW</i>	559	583	664	661	675	692	..	1.2
<i>Hydro 10+MW</i>	9224	10775	11077	11154	11147	11039	..	0.2
<i>Mixed plants</i>	1455	1440	1383	1383	1383	1383	..	-0.3
<i>Pure pumped storage</i>	312	316	456	456	456	456	..	2.7
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	2	16	125	437	756	1061	..	34.9
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	3	42	49	60	60	..	23.9
Industrial waste	..	..	..	..	..	..	-	..
Municipal waste	148	274	358	398	398	298	..	0.6
Solid biofuels	..	..	..	..	..	..	-	..
Biogases	3	33	32	33	33	32	..	-0.2
Liquid biofuels	-	-	-	-	-	-	-	-
Solar collectors surface (1000 m ²)	97	445	1008	1265	1385	1485	..	9.0
<i>Cap. of solar collectors (MW_{th})</i> ⁶	68	312	706	886	970	1040	..	9.0

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

SWITZERLAND

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	30.70	33.65	29.27	32.28	33.69	32.91	32.79
Hydro	30.32	32.96	28.28	31.46	33.34	33.02	32.98
<i>of which: <1MW</i>	-	-	-	-	-	-	-
<i>of which: 1-10MW</i>	-	-	-	-	-	-	-
<i>of which: 10+MW</i>	36.87	39.02	32.72	37.16	39.51	39.39	39.33
Geothermal	-	-	-	-	-	-	-
Solar photovoltaic	5.71	7.85	8.56	8.58	7.84	7.55	9.06
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	-	11.42	7.61	10.06	20.50	17.12	19.22
Industrial waste	..	..	..	..	..	..	..
Municipal waste	49.36	52.91	59.75	58.61	57.71	59.77	84.43
Solid biofuels	..	..	..	..	..	..	..
Biogases	305.78	51.63	49.02	74.56	89.94	97.20	103.81
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

TURKEY

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	52.72	75.96	106.66	118.22	116.94	121.54	129.68	3.6
<i>of which: Renewables (Mtoe)</i> ¹	9.66	10.10	11.63	12.15	13.09	12.08	15.52	2.9
<i>Renewables/TPES(%)</i>	18.3	13.3	10.9	10.3	11.2	9.9	12.0	-0.7
GDP (billion 2005 US dollars)	348.93	500.18	731.14	812.21	846.26	870.92	905.62	4.0
TPES/GDP ²	0.15	0.15	0.15	0.15	0.14	0.14	0.14	-0.4
TPES/GDP (year 2005 = 100)	112	113	108	108	103	104	106	-0.4
Population (millions)	55.12	64.25	73.00	74.90	75.77	76.62	77.48	1.3
TPES/population (toe per capita)	0.96	1.18	1.46	1.58	1.54	1.59	1.67	2.3
Electricity generation (TWh) ³	57.5	124.9	211.2	239.5	240.2	252.0	259.7	5.0
<i>of which: Renewables (TWh)</i> ^{1,3}	23.23	31.15	55.71	65.22	69.22	52.63	83.26	6.8
<i>Renew./Total Elec.(%)</i> ^{1,4}	40.4	24.9	26.4	27.2	28.8	20.9	32.1	1.7
Road energy consumption (Mtoe)	8.4	10.5	13.3	16.0	17.7	18.5	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	0.01	0.08	0.40	0.14	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	0.0	0.5	2.3	0.8	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	6782	11307	17390	22201	25559	27966	..	6.7
Hydro	6764	11175	15831	19609	22289	23643	..	5.5
<i>Hydro <1MW</i>	-	16	17	18	19	19	..	1.2
<i>Hydro 1-10MW</i>	-	136	436	785	967	1098	..	16.1
<i>Hydro 10+MW</i>	-	11023	15378	18806	21303	22526	..	5.2
<i>Mixed plants</i>	-	-	-	-	-	-	-	-
<i>Pure pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	18	18	94	162	311	405	..	24.9
Solar photovoltaic	-	-	-	-	-	40	..	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	19	1320	2261	2760	3630	..	45.5
Industrial waste	-	19	27	27	27	27	..	2.5
Municipal waste	-	-	-	-	-	-	-	-
Solid biofuels	-	72	47	10	10	10	..	-13.2
Biogases	-	4	71	132	162	204	..	32.4
Liquid biofuels	-	-	-	-	-	7	..	-
Solar collectors surface (1000 m ²)	..	7700	12350	18000	19300	19490	..	6.9
<i>Cap. of solar collectors (MW_{th})</i> ⁶	..	5390	8645	12600	13510	13643	..	6.9

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

TURKEY

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	39.10	31.51	34.85	36.65	33.60	30.96	21.53
Hydro	39.07	31.54	34.99	37.35	33.69	30.43	19.62
<i>of which: <1MW</i>	-	22.12	37.06	38.18	36.41	38.24	27.28
<i>of which: 1-10MW</i>	-	26.27	32.33	31.52	29.51	47.85	21.84
<i>of which: 10+MW</i>	-	31.62	35.02	37.51	33.86	29.64	19.31
Geothermal	50.74	48.20	71.54	81.15	63.37	50.05	66.63
Solar photovoltaic	-	-	-	-	-	-	4.96
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	-	19.83	32.07	25.22	29.59	31.26	26.79
Industrial waste	-	32.44	37.21	52.65	54.48	42.93	44.12
Municipal waste	-	-	-	-	-	-	-
Solid biofuels	-	22.99	0.79	8.87	37.50	39.67	39.04
Biogases	-	59.93	36.78	47.66	48.35	59.46	58.53
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	3.91

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

UNITED KINGDOM

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	205.92	222.95	202.77	193.83	191.60	179.42	180.01	-1.4
<i>of which: Renewables (Mtoe)</i> ¹	1.03	2.26	7.35	8.81	10.48	12.11	13.79	12.8
<i>Renewables/TPES(%)</i>	0.5	1.0	3.6	4.5	5.5	6.7	7.7	14.4
GDP (billion 2005 US dollars)	1613.57	2051.58	2403.58	2479.89	2533.45	2605.73	2666.42	1.8
TPES/GDP ²	0.13	0.11	0.08	0.08	0.08	0.07	0.07	-3.1
TPES/GDP (year 2005 = 100)	135	115	89	83	80	73	71	-3.1
Population (millions)	57.24	58.89	62.76	63.71	64.11	64.60	65.03	0.7
TPES/population (toe per capita)	3.60	3.79	3.23	3.04	2.99	2.78	2.77	-2.1
Electricity generation (TWh) ³	317.8	374.4	378.6	360.6	356.3	336.0	335.3	-0.7
<i>of which: Renewables (TWh)</i> ^{1,3}	5.81	9.97	25.93	41.75	53.89	65.32	83.33	15.2
<i>Renew./Total Elec.(%)</i> ^{1,4}	1.8	2.7	6.8	11.6	15.1	19.4	24.9	16.1
Road energy consumption (Mtoe)	36.4	38.9	37.7	36.8	36.6	37.3	..	..
<i>of which: Liquid biofuels (Mtoe)</i>	-	-	1.15	0.90	0.97	1.13	..	..
<i>Liq. biofuels/road tr.(%)</i> ⁵	-	-	3.1	2.4	2.7	3.0	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	4028	5473	12145	18368	22487	27284	..	12.2
Hydro	3897	4273	4386	4438	4452	4467	..	0.3
<i>Hydro <1MW</i>	-	26	65	103	115	127	..	12.0
<i>Hydro 1-10MW</i>	26	40	186	182	184	187	..	11.6
<i>Hydro 10+MW</i>	1084	1419	1391	1409	1409	1409	..	-0.1
<i>Mixed plants</i>	-	-	-	-	-	-	-	-
<i>Pure pumped storage</i>	2787	2788	2744	2744	2744	2744	..	-0.1
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	2	96	1756	2851	5377	..	75.8
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	1	1	3	3	3	..	8.2
Wind	10	412	5401	8899	11215	12987	..	28.0
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste	31	184	424	517	550	696	..	10.0
Solid biofuels	-	133	676	1468	2085	2354	..	22.8
Biogases	90	468	1161	1287	1331	1400	..	8.1
Liquid biofuels	-	-	-	-	-	-	-	-
Solar collectors surface (1000 m ²)	205	396	1038	1265	1326	1378	..	9.3
<i>Cap. of solar collectors (MW_{th})</i> ⁶	144	277	727	886	928	965	..	9.3

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

UNITED KINGDOM

Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	22.32	27.50	33.77	28.72	29.02	29.90	29.63
Hydro	21.06	20.78	20.90	17.48	21.22	19.50	22.41
<i>of which: <1MW</i>	-	9.22	31.64	32.68	34.82	32.86	38.31
<i>of which: 1-10MW</i>	-	55.08	29.35	26.81	40.26	36.12	42.39
<i>of which: 10+MW</i>	54.83	39.19	38.68	24.14	35.07	30.69	38.60
Geothermal	-	-	-	-	-	-	-
Solar photovoltaic	-	5.71	8.48	4.88	8.79	7.97	8.60
Solar thermal	-	-	-	-	-	-	-
Tide, wave and ocean	-	-	-	20.99	13.59	22.40	8.45
Wind	10.27	26.24	21.18	21.67	25.44	28.93	28.14
Industrial waste	-	-	-	-	-	-	-
Municipal waste	82.12	84.31	51.78	63.90	57.41	52.90	55.33
Solid biofuels	-	46.43	81.45	76.88	50.61	55.66	67.17
Biogases	57.71	62.32	60.34	60.23	67.37	64.66	66.03
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)

UNITED STATES

Table 1. Energy supply, GDP and population

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-15
TPES (Mtoe)	1915.05	2273.34	2215.22	2156.98	2182.58	2216.19	2182.31	-0.3
of which: Renewables (Mtoe) ¹	96.17	101.96	125.26	138.67	148.15	152.31	149.61	2.6
Renewables/TPES(%)	5.0	4.5	5.7	6.4	6.8	6.9	6.9	2.9
GDP (billion 2005 US dollars)	9064.41	12713.06	14964.37	15542.16	15773.67	16156.62	16548.57	1.8
TPES/GDP ²	0.21	0.18	0.15	0.14	0.14	0.14	0.13	-2.0
TPES/GDP (year 2005 = 100)	131	111	92	86	86	85	82	-2.0
Population (millions)	250.18	282.40	309.81	314.50	316.84	319.17	321.69	0.9
TPES/population (toe per capita)	7.65	8.05	7.15	6.86	6.89	6.94	6.78	-1.1
Electricity generation (TWh) ³	3202.8	4025.9	4354.4	4270.9	4287.1	4319.2	4292.1	0.4
of which: Renewables (TWh) ^{1,3}	369.24	330.36	440.68	512.82	541.80	559.50	561.17	3.6
Renew./Total Elec.(%) ^{1,4}	11.5	8.2	10.1	12.0	12.6	13.0	13.1	3.2
Road energy consumption (Mtoe)	391.4	490.7	516.9	517.1	519.9	531.7	..	..
of which: Liquid biofuels (Mtoe)	-	3.19	24.19	31.10	33.80	33.78	..	..
Liq. biofuels/road tr.(%) ⁵	-	0.6	4.7	6.0	6.5	6.4	-	-

1. Renewables do not include industrial waste, non-renewable municipal waste and pumped storage production.

2. In units of toe per thousand 2005 US dollars.

3. Electricity generation = gross production - amount of electricity produced in pumped storage plants.

4. Electricity share generated from renewables over the total electricity production.

5. Energy from liquid biofuels consumed in road transport over the total energy consumed in road transport.

Source: IEA/OECD Renewables Statistics, World energy balances and OECD Main Economic Indicators.

Table 2. Net generating capacity of renewable and waste sources (MWe)

	1990	2000	2010	2012	2013	2014	2015p	Average annual percent change 00-14
Total capacity	108105 e	114920	157859	184015	191190	199572	..	4.0
Hydro	92360	98881	101024	101106	101589	102162	..	0.2
Hydro <1MW	-	630	38	43	39	32	..	-19.2
Hydro 1-10MW	-	5602	2790	2788	2859	2920	..	-4.5
Hydro 10+MW	-	73127	67376	67279	67674	68095	..	-0.5
Mixed plants	-	-	12308	12332	12331	12339	..	-
Pure pumped storage	-	19522	18511	18665	18686	18776	..	-0.3
Geothermal	2669	2793	2405	2592	2607	2514	..	-0.7
Solar photovoltaic	..	176 e	2909 e	8137 e	11759 e	14878 e	..	37.3
Solar thermal	339	419	473	476	1286	1667	..	10.4
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	1911	2377	39135	59075	59973	64232	..	26.6
Industrial waste	538 e	638	513	310	578	585	..	-0.6
Municipal waste	2001 e	2627	2220	2203	2228	2230	..	-1.2
Solid biofuels	7958 e	6129	7361	7810	8744	8755	..	2.6
Biogases	329 e	880	1636	2102	2271	2394	..	7.4
Liquid biofuels	-	-	183	204	155	155	..	-
Solar collectors surface (1000 m ²)	18530	19395	25566 e	27768 e	28785 e	29840 e	..	3.1
Cap. of solar collectors (MW _{th}) ⁶	12971	13577	17896 e	19438 e	20150 e	20888 e	..	3.1

6. Converted at 0.7 kW_{th}/m² of solar collector area, as estimated by the IEA Solar Heating & Cooling Programme.

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Table 3. Capacity factors (%)

	1990	2000	2005	2010	2012	2013	2014
Total plants¹	41.72 e	37.02 e	38.19 e	34.39 e	33.77 e	34.17 e	33.78 e
Hydro	35.71	32.32	34.39	32.36	33.68	32.60	31.46
<i>of which: <1MW</i>	-	43.38	82.11	91.85	82.90	98.68	81.28
<i>of which: 1-10MW</i>	-	24.52	52.34	49.80	45.73	45.21	43.25
<i>of which: 10+MW</i>	-	37.27	39.63	42.32	45.31	43.72	41.94
Geothermal	68.48	59.76	83.82	83.43	79.87	80.67	84.96
Solar photovoltaic	..	11.84 e	12.13 e	12.02 e	12.89 e	14.42 e	16.81 e
Solar thermal	22.33	14.33	17.53	21.20	23.00	9.00	18.41
Tide, wave and ocean	-	-	-	-	-	-	-
Wind	18.32	27.13	23.45	27.75	27.42	32.30	32.68
Industrial waste	99.94 e	128.29	142.34	78.92	126.59	62.03	55.03
Municipal waste	60.55 e	72.69	89.62	85.47	87.89	84.60	84.93
Solid biofuels	98.33 e	79.32	73.72	65.97	63.87	59.45	63.32
Biogases	86.54 e	67.84	67.11	68.42	62.82	64.29	64.78
Biodiesels	-	-	-	-	-	-	-
Other liquid biofuels	-	-	36.30	5.89	10.86	14.19	15.29

1. The capacity factor is defined as: the annual gross electricity generation divided by the net capacity reported times 365 (days/year) times 24 (hours/day)