

BP Statistical Review of World Energy June 2015

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Renewable energy

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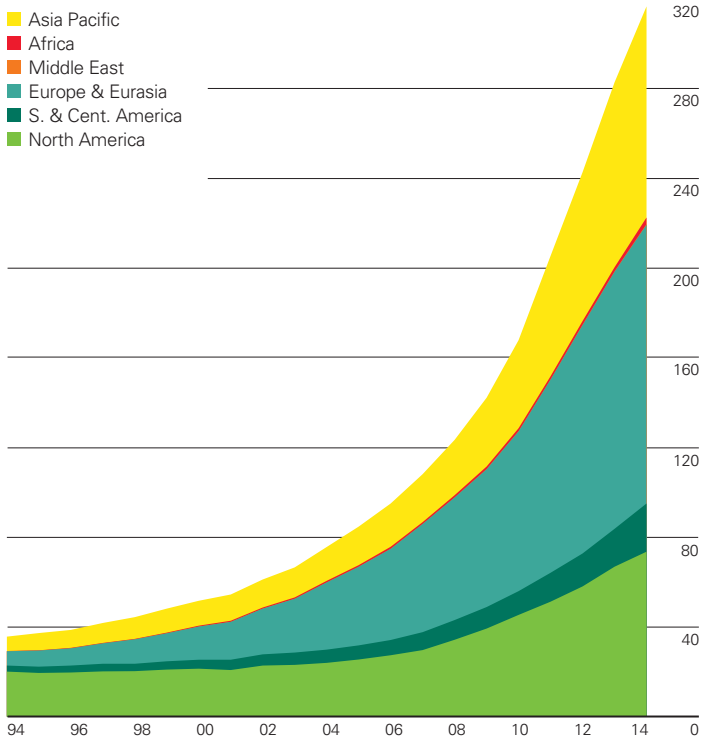
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64th edition

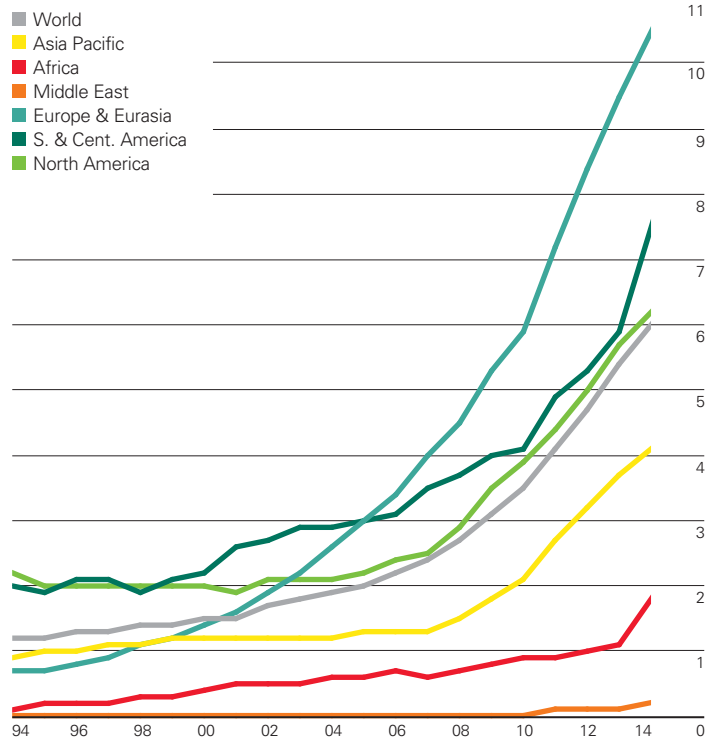
Other renewables consumption by region

Million tonnes oil equivalent



Other renewables share of power generation by region

Percentage



Renewable energy in power grew by 12.0%, the lowest rate of growth since 2006. Nevertheless renewables continued to increase their share of electricity production, accounting for 6.0% of global electricity. Asia Pacific contributed the largest growth increment, led by China, while Africa recorded the fastest growth rate. Europe & Eurasia continues to lead in terms of share of power generation, with non-hydro renewables now supplying nearly 17% of EU power generation.

Other renewables consumption*

Million tonnes oil equivalent	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Change 2014 over 2013	2014 share of total
US	19.6	20.6	22.7	24.7	29.5	33.6	38.9	45.0	50.6	58.7	65.0	10.8%	20.5%
Canada	2.3	2.5	2.6	2.7	2.6	3.4	4.1	3.9	4.8	4.8	4.9	0.3%	1.5%
Mexico	2.1	2.4	2.1	2.3	2.2	2.3	2.4	2.4	2.8	3.4	3.7	9.2%	1.2%
Total North America	24.0	25.5	27.4	29.7	34.3	39.3	45.4	51.3	58.1	66.9	73.6	10.0%	23.2%
Argentina	0.3	0.3	0.7	0.7	0.7	0.7	0.5	0.5	0.6	0.7	0.7	5.7%	0.2%
Brazil	3.7	4.2	4.3	5.0	5.5	5.9	7.3	9.0	10.1	11.9	15.4	30.2%	4.9%
Chile	0.5	0.4	0.3	0.6	0.7	1.0	0.6	1.2	1.2	1.3	1.9	44.5%	0.6%
Colombia	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	3.3%	♦
Ecuador	†	†	†	†	†	†	†	†	†	†	0.1	39.9%	♦
Peru	†	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	27.0%	0.1%
Trinidad & Tobago	†	†	†	†	†	†	†	†	†	†	†	9.5%	♦
Venezuela	-	-	-	-	-	-	†	†	†	†	†	157.1%	♦
Other S. & Cent. America	1.2	1.1	1.2	1.3	1.5	1.7	1.8	1.8	2.4	2.6	2.9	13.3%	0.9%
Total S. & Cent. America	5.9	6.3	6.8	8.0	8.8	9.6	10.6	12.9	14.7	16.9	21.5	27.5%	6.8%
Austria	0.7	0.9	1.2	1.4	1.4	1.4	1.5	1.5	1.7	1.9	2.1	11.9%	0.7%
Azerbaijan	-	-	-	-	-	†	†	-	-	†	†	575.0%	♦
Belarus	†	†	†	†	†	†	0.1	0.1	†	†	†	0.6%	♦
Belgium	0.5	0.6	0.8	1.0	1.2	1.5	1.8	2.2	2.4	2.8	3.1	10.9%	1.0%
Bulgaria	†	†	†	†	†	0.1	0.2	0.2	0.5	0.6	0.7	4.2%	0.2%
Czech Republic	0.2	0.2	0.2	0.3	0.4	0.5	0.7	1.2	1.3	1.5	1.7	14.4%	0.5%
Denmark	2.2	2.2	2.1	2.3	2.3	2.3	2.8	3.2	3.4	3.6	4.1	13.1%	1.3%
Finland	2.4	2.2	2.5	2.3	2.4	2.0	2.5	2.6	2.6	2.9	2.9	0.1%	0.9%
France	1.0	1.1	1.4	1.9	2.3	2.8	3.4	4.4	5.5	5.9	6.5	10.5%	2.1%
Germany	8.3	9.7	11.7	15.2	16.5	17.2	19.0	24.0	27.5	29.3	31.7	8.3%	10.0%
Greece	0.3	0.3	0.4	0.5	0.6	0.6	0.7	0.9	1.3	1.8	2.0	11.4%	0.6%
Hungary	0.2	0.4	0.3	0.3	0.5	0.6	0.6	0.6	0.6	0.6	0.6	-2.4%	0.2%
Republic of Ireland	0.2	0.3	0.4	0.5	0.6	0.7	0.7	1.1	1.0	1.1	1.3	12.1%	0.4%
Italy	2.9	3.1	3.5	3.8	4.1	4.6	5.8	8.4	11.4	13.4	14.8	10.7%	4.7%
Kazakhstan	-	-	†	†	†	†	†	†	†	†	†	95.5%	♦
Lithuania	†	†	†	†	†	0.1	0.1	0.1	0.2	0.2	0.3	19.1%	0.1%
Netherlands	1.2	1.7	1.8	1.7	2.1	2.4	2.5	2.8	2.8	2.7	2.6	-4.7%	0.8%
Norway	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.6	14.1%	0.2%
Poland	0.2	0.4	0.5	0.7	1.0	1.4	1.8	2.4	3.4	3.3	3.9	17.3%	1.2%
Portugal	0.5	0.8	1.1	1.4	1.8	2.3	2.8	2.8	3.1	3.6	3.6	-1.3%	1.1%
Romania	†	†	†	†	†	†	0.1	0.4	0.6	1.2	1.4	22.5%	0.5%
Russian Federation	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	3.1%	♦
Slovakia	†	†	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	-7.4%	0.1%
Spain	4.4	5.6	6.2	7.2	8.7	10.7	12.5	12.6	15.0	16.3	16.0	-1.4%	5.1%
Sweden	1.8	1.9	2.1	2.5	2.8	3.1	3.5	4.0	4.4	4.8	5.0	3.6%	1.6%
Switzerland	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.6	13.4%	0.2%
Turkey	0.1	0.1	0.1	0.2	0.3	0.5	0.9	1.3	1.7	2.3	2.8	21.7%	0.9%
Turkmenistan	-	-	-	-	-	-	†	†	†	†	†	66.7%	♦
Ukraine	†	†	†	†	†	†	†	†	0.2	0.3	0.4	17.4%	0.1%
United Kingdom	2.1	2.7	3.1	3.3	3.8	4.5	5.0	6.5	8.1	11.1	13.2	19.4%	4.2%
Uzbekistan	-	-	-	-	-	-	†	†	†	†	†	60.6%	♦
Other Europe & Eurasia	0.4	0.5	0.7	0.9	1.1	1.3	1.4	1.6	1.9	2.0	2.1	6.3%	0.7%
Total Europe & Eurasia	30.0	35.1	40.7	48.3	54.7	61.5	71.3	86.2	101.9	114.7	124.4	8.5%	39.3%
Iran	†	†	†	†	†	0.1	†	0.1	0.1	0.1	0.1	15.7%	♦
Israel	†	†	†	†	†	†	†	0.1	0.1	0.2	0.2	61.6%	0.1%
Kuwait	-	-	-	-	-	-	†	†	†	†	†	48.3%	♦
Qatar	-	-	-	-	-	-	†	†	†	†	†	123.2%	♦
Saudi Arabia	-	-	-	-	-	-	-	-	-	†	†	-	♦
United Arab Emirates	-	-	-	-	-	†	†	†	†	†	†	-	♦
Other Middle East	†	†	†	†	†	†	†	†	†	†	†	5.8%	♦
Total Middle East	†	†	†	†	†	0.1	0.1	0.1	0.2	0.2	0.3	47.1%	0.1%
Algeria	-	-	-	-	-	-	-	†	0.1	0.1	0.1	8.2%	♦
Egypt	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.4	11.5%	0.1%
South Africa	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6	482.2%	0.2%
Other Africa	0.5	0.5	0.7	0.6	0.7	0.8	0.9	0.9	1.1	1.3	1.8	40.6%	0.6%
Total Africa	0.7	0.7	0.9	0.8	1.0	1.1	1.3	1.4	1.6	1.8	2.9	57.5%	0.9%
Australia	0.8	1.2	1.4	1.6	1.7	1.7	2.0	2.4	3.0	3.7	4.1	10.2%	1.3%
Bangladesh	†	†	†	†	†	†	†	†	†	†	0.1	33.8%	♦
China	0.9	1.1	1.5	1.9	3.6	6.9	13.1	24.6	33.8	46.1	53.1	15.1%	16.7%
China Hong Kong SAR	-	-	†	†	†	†	†	†	†	†	†	0.1%	♦
India	1.9	2.3	3.3	4.0	4.8	6.3	7.6	9.2	11.0	12.5	13.9	11.5%	4.4%
Indonesia	1.5	1.5	1.5	1.6	1.9	2.1	2.1	2.2	2.2	2.2	2.2	2.3%	0.7%
Japan	5.4	6.5	6.6	6.9	6.8	6.8	7.2	7.5	8.2	9.5	11.6	22.1%	3.7%
Malaysia	-	-	-	†	†	0.3	0.3	0.3	0.4	0.3	0.3	11.1%	0.1%
New Zealand	0.8	1.0	1.0	1.1	1.3	1.6	1.8	2.0	2.0	2.0	2.3	11.4%	0.7%
Pakistan	-	-	-	-	-	†	†	†	†	†	0.1	120.0%	♦
Philippines	2.3	2.2	2.4	2.3	2.4	2.4	2.3	2.3	2.4	2.2	2.3	1.8%	0.7%
Singapore	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	2.0%	♦
South Korea	0.1	0.1	0.1	0.2	0.3	0.5	0.6	0.7	0.7	0.9	1.1	25.8%	0.4%
Taiwan	0.7	0.7	0.8	0.9	0.9	0.9	1.0	1.2	1.2	1.2	1.3	0.7%	0.4%
Thailand	0.3	0.4	0.3	0.4	0.6	0.7	0.8	0.8	1.2	1.3	1.5	12.9%	0.5%
Vietnam	-	†	†	†	†	†	†	†	†	0.1	0.1	-	♦
Other Asia Pacific	†	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	6.7%	0.1%
Total Asia Pacific	15.1	17.2	19.3	21.4	24.7	30.7	39.3	53.7	66.4	82.5	94.2	14.2%	29.7%
Total World	75.7	84.9	95.1	108.2	123.5	142.2	168.0	205.6	242.9	283.0	316.9	12.0%	100.0%
of which: OECD	61.5	69.7	77.4	88.3	99.5	112.0	128.3	150.2	173.4	196.3	215.9	9.9%	68.1%
Non-OECD	14.2	15.2	17.7	19.9	23.9	30.2	39.7	55.4	69.5	86.7	101.1	16.6%	31.9%
European Union	29.1	34.1	39.3	46.5	52.7	59.2	68.6	82.8	97.8	109.7	118.7	8.2%	37.5%
Former Soviet Union	0.1	0.2	0.2	0.2	0.2	0.4	0.5	0.7	0.9	1.1	1.3	12.9%	0.4%

*Based on gross generation from renewable sources including wind, geothermal, solar, biomass and waste, and not accounting for cross-border electricity supply. Converted on the basis of thermal equivalence assuming 38% conversion efficiency in a modern thermal power station.

† Less than 0.05.

♦ Less than 0.05%.

Note: Other renewables data expressed in terawatt-hours is available at bp.com/statisticalreview

Biofuels production

Thousand tonnes oil equivalent	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Change 2014 over 2013	2014 share of total
US	6374	7478	9746	13456	19149	21697	25568	28518	27270	28462	30056	5.6%	42.5%
Canada	114	133	160	461	501	721	741	851	1001	1037	1143	10.2%	1.6%
Mexico	-	-	-	4	4	4	13	12	14	53	53	-	0.1%
Total North America	6488	7612	9906	13922	19654	22422	26322	29381	28284	29552	31252	5.8%	44.1%
Argentina	9	9	29	272	632	1048	1790	2397	2468	1970	2577	30.9%	3.6%
Brazil	7154	7835	8729	11323	14132	13962	15575	13197	13547	15782	16656	5.5%	23.5%
Colombia	-	14	131	141	143	295	439	565	612	632	655	3.6%	0.9%
Other S. & Cent. America	148	235	515	610	787	606	314	457	407	406	406	-	0.6%
Total S. & Cent. America	7311	8093	9405	12347	15693	15911	18118	16616	17035	18790	20294	8.0%	28.7%
Austria	48	70	105	220	263	354	375	370	370	354	310	-12.7%	0.4%
Belgium	-	1	21	140	278	473	582	641	539	524	550	4.9%	0.8%
Finland	1	6	11	51	96	267	363	206	174	47	47	-	0.1%
France	387	439	665	1121	2012	2312	2269	1859	2071	2220	2269	2.2%	3.2%
Germany	890	1525	2488	3181	2727	2728	2888	2825	2888	2632	2684	2.0%	3.8%
Italy	272	340	585	443	617	758	670	479	292	432	432	-	0.6%
Netherlands	6	3	22	80	77	241	384	651	1250	1445	1445	-	2.0%
Poland	6	109	144	96	279	393	421	398	631	674	696	3.3%	1.0%
Portugal	-	1	70	153	145	202	275	293	338	208	246	18.2%	0.3%
Spain	210	282	251	352	359	958	1267	809	586	709	938	32.2%	1.3%
Sweden	43	48	81	139	171	238	274	315	305	305	305	-	0.4%
United Kingdom	9	39	219	359	276	220	304	251	287	482	482	-	0.7%
Other Europe & Eurasia	163	296	393	489	931	1170	1249	1314	1223	1241	1280	3.1%	1.8%
Total Europe & Eurasia	2035	3160	5056	6824	8231	10315	11322	10412	10953	11274	11683	3.6%	16.5%
Total Middle East	-	-	-	-	-	-	4	4	4	4	4	-	♦
Total Africa	6	6	6	6	11	17	32	25	21	21	21	-	♦
Australia	4	20	54	70	111	165	198	203	176	183	152	-16.8%	0.2%
China	493	622	846	901	1096	1124	1479	1673	1931	2016	2083	3.3%	2.9%
India	99	114	134	136	155	70	113	192	208	248	320	29.1%	0.5%
Indonesia	-	9	44	216	528	464	718	1104	1388	1740	2444	40.4%	3.5%
South Korea	4	9	39	74	141	343	491	308	272	308	302	-1.8%	0.4%
Thailand	3	52	80	138	495	618	661	721	994	1251	1402	12.0%	2.0%
Other Asia Pacific	-	10	106	207	387	435	294	249	392	541	834	54.3%	1.2%
Total Asia Pacific	604	834	1304	1743	2913	3221	3953	4450	5361	6286	7538	19.9%	10.6%
Total World	16445	19704	25676	34841	46502	51886	59752	60888	61658	65928	70792	7.4%	100.0%
of which: OECD	8521	10782	15019	20779	27907	32926	38034	39952	39376	40967	43034	5.0%	60.8%
Non-OECD	7924	8922	10657	14063	18595	18960	21718	20936	22282	24961	27758	11.2%	39.2%
European Union	2028	3136	5007	6753	8089	10134	11141	10196	10841	11197	11606	3.6%	16.4%
Former Soviet Union	11	22	28	50	130	212	181	158	183	194	199	2.6%	0.3%

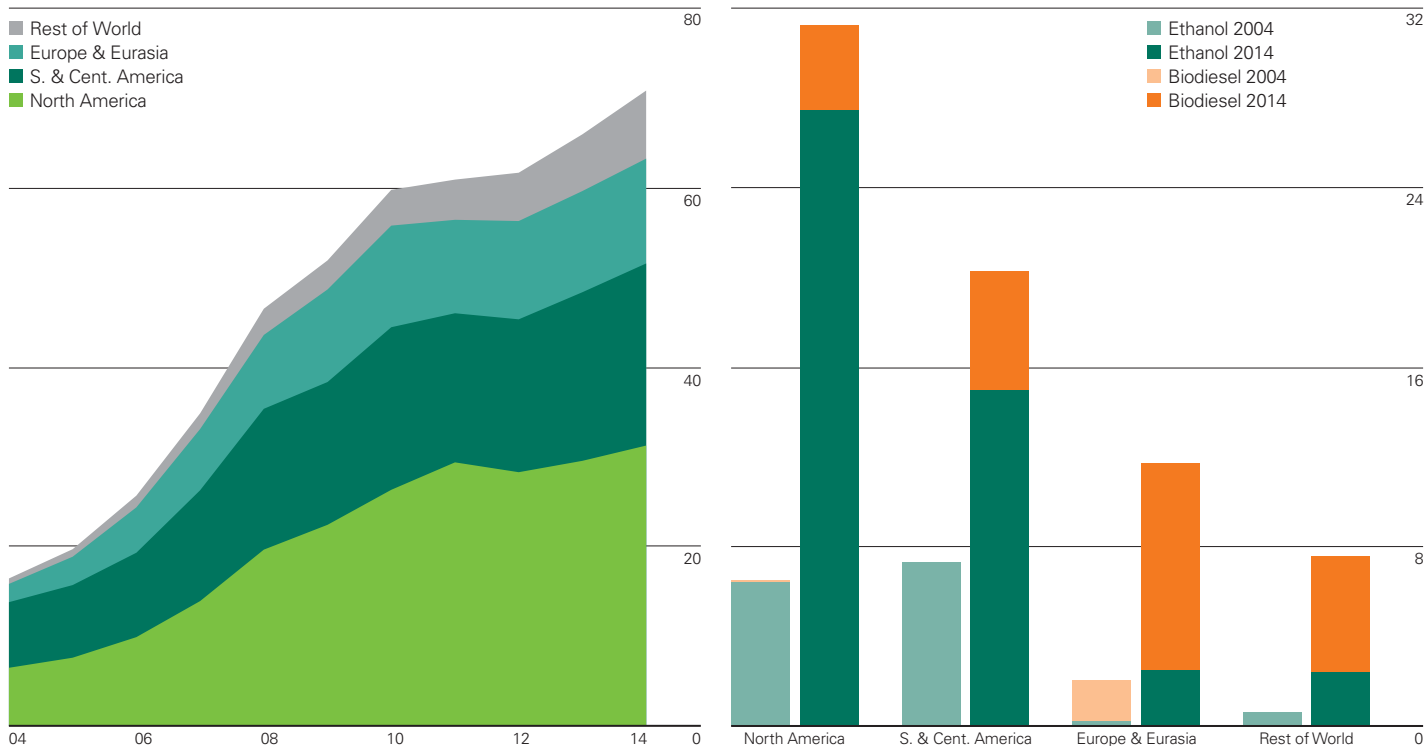
♦Less than 0.05%.

Note: Consumption of fuel ethanol and biodiesel is included in oil consumption tables.

Source: Includes data from F.O. Lichts; US Energy Information Administration.

World biofuels production

Million tonnes oil equivalent



World biofuels production increased by 7.4% in 2014. Global ethanol production increased by 6.0%, the second consecutive year of growth, led by increases from North America, South & Central America and Asia Pacific. Biodiesel production increased by 10.3% in 2014, despite a decline in production from North America.

Renewables: consumption – solar*

Terawatt-hours	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Change 2014 over 2013	2014 share of total
US	0.6	0.6	0.5	0.6	0.9	0.9	1.2	1.8	4.4	9.1	18.5	102.8%	10.0%
Canada	†	†	†	†	†	0.1	0.1	0.3	0.3	0.5	0.7	47.8%	0.4%
Mexico	†	†	†	†	†	†	†	†	0.1	0.1	0.1	14.7%	0.1%
Total North America	0.6	0.6	0.5	0.7	0.9	1.0	1.4	2.1	4.8	9.7	19.3	99.1%	10.4%
Argentina	†	†	†	†	†	†	†	†	†	†	†	4.7%	♦
Brazil	-	-	-	-	-	-	-	-	†	†	†	186.3%	♦
Chile	-	-	-	-	-	-	-	-	†	†	0.5	6689.2%	0.2%
Colombia	-	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	†	†	†	†	†	†	†	†	†	†	767.4%	♦
Peru	-	-	-	-	-	-	-	-	0.1	0.2	0.2	1.2%	0.1%
Trinidad & Tobago	-	-	-	-	-	-	†	†	†	†	†	58.8%	♦
Venezuela	-	-	-	-	-	-	†	†	†	†	†	157.1%	♦
Other S. & Cent. America	†	†	†	†	†	†	†	0.1	0.3	0.4	0.4	1.9%	0.2%
Total S. & Cent. America	†	†	†	†	†	†	†	0.1	0.4	0.6	1.1	78.0%	0.6%
Austria	†	†	†	†	†	†	0.1	0.2	0.3	0.6	0.8	40.8%	0.4%
Azerbaijan	-	-	-	-	-	-	-	-	-	†	†	262.5%	♦
Belarus	-	-	-	-	-	-	-	†	†	†	†	14.1%	♦
Belgium	†	†	†	†	†	0.2	0.6	1.2	2.1	2.6	3.1	16.9%	1.7%
Bulgaria	-	-	-	-	-	†	†	0.1	0.8	1.4	1.4	0.6%	0.7%
Czech Republic	-	-	†	†	†	0.1	0.6	2.1	2.2	2.1	2.1	2.5%	1.1%
Denmark	†	†	†	†	†	†	†	†	0.1	0.5	0.6	15.1%	0.3%
Finland	†	†	†	†	†	†	†	†	†	†	†	-	♦
France	†	†	†	†	†	0.2	0.5	2.1	4.1	4.6	5.9	27.2%	3.2%
Germany	0.6	1.3	2.2	3.1	4.4	6.6	11.7	19.6	26.4	31.0	34.9	12.6%	18.8%
Greece	†	†	†	†	†	0.1	0.2	0.6	1.7	3.6	4.5	23.4%	2.4%
Hungary	-	-	-	-	†	†	†	†	†	†	†	-	♦
Republic of Ireland	-	-	-	-	-	-	-	-	-	-	-	-	-
Italy	†	†	†	†	0.2	0.7	1.9	10.8	18.9	21.6	23.7	9.7%	12.7%
Kazakhstan	-	-	-	-	-	-	†	†	†	†	†	119.4%	♦
Lithuania	-	-	-	-	-	-	-	†	†	†	0.1	62.9%	♦
Netherlands	†	†	†	†	†	†	0.1	0.1	0.3	0.5	0.7	40.3%	0.4%
Norway	-	-	-	-	-	-	†	†	†	†	†	-	♦
Poland	-	-	-	-	-	-	-	†	†	†	†	366.7%	♦
Portugal	†	†	†	†	†	0.2	0.2	0.3	0.4	0.5	0.6	33.4%	0.3%
Romania	-	-	-	-	-	†	†	†	†	0.4	1.3	208.4%	0.7%
Russian Federation	-	-	-	-	-	-	-	-	-	-	-	-	-
Slovakia	-	-	-	-	-	-	†	0.3	0.6	0.6	0.5	-19.0%	0.3%
Spain	0.1	0.1	0.2	0.5	2.6	6.1	7.1	8.7	12.0	12.7	13.7	7.6%	7.3%
Sweden	†	†	†	†	†	†	†	†	†	†	†	81.6%	♦
Switzerland	†	†	†	†	†	0.1	0.1	0.2	0.3	0.5	0.8	53.6%	0.4%
Turkey	-	-	-	-	-	-	†	†	†	†	0.1	157.5%	♦
Turkmenistan	-	-	-	-	-	-	†	†	†	†	†	66.7%	♦
Ukraine	-	-	-	-	-	-	-	†	0.3	0.6	0.4	-37.7%	0.2%
United Kingdom	†	†	†	†	†	†	†	0.2	1.4	2.0	3.9	93.1%	2.1%
Uzbekistan	-	-	-	-	-	-	†	†	†	†	†	60.6%	♦
Other Europe & Eurasia	†	†	†	†	†	†	†	0.1	0.2	0.4	0.5	17.3%	0.2%
Total Europe & Eurasia	0.7	1.5	2.6	3.8	7.5	14.2	23.2	46.7	72.1	86.5	99.7	15.3%	53.6%
Iran	-	-	-	-	-	-	†	†	†	†	†	-	♦
Israel	-	-	-	-	-	†	0.1	0.2	0.4	0.6	1.0	69.0%	0.6%
Kuwait	-	-	-	-	-	-	†	†	†	†	†	48.3%	♦
Qatar	-	-	-	-	-	-	†	†	†	†	†	123.2%	♦
Saudi Arabia	-	-	-	-	-	-	-	-	†	†	†	-	♦
United Arab Emirates	-	-	-	-	-	†	†	†	†	†	†	-	♦
Other Middle East	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Middle East	-	-	-	-	-	†	0.1	0.2	0.4	0.7	1.1	66.3%	0.6%
Algeria	-	-	-	-	-	-	-	0.1	0.2	0.2	0.2	2.6%	0.1%
Egypt	-	-	-	-	-	-	-	†	0.1	0.1	0.1	-0.8%	♦
South Africa	†	†	†	†	†	†	†	0.1	0.1	0.1	1.2	1075.4%	0.6%
Other Africa	†	†	†	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.6	-	0.3%
Total Africa	†	†	†	0.1	0.2	0.2	0.3	0.6	0.8	1.0	2.1	110.1%	1.1%
Australia	0.1	0.1	0.1	0.1	0.1	0.3	1.0	2.0	2.4	3.8	4.5	17.3%	2.4%
Bangladesh	†	†	†	†	†	†	0.1	0.1	0.1	0.2	0.2	34.6%	0.1%
China	0.1	0.1	0.1	0.1	0.2	0.4	0.9	2.6	6.4	15.5	29.1	87.6%	15.7%
China Hong Kong SAR	-	-	-	-	-	-	†	†	†	†	†	-0.9%	♦
India	†	†	†	†	†	†	0.3	0.5	1.4	2.8	4.4	53.9%	2.4%
Indonesia	-	-	-	-	†	†	†	†	†	†	†	57.1%	♦
Japan	1.0	1.3	1.6	1.9	2.1	2.5	3.3	4.5	6.1	10.6	19.4	82.4%	10.4%
Malaysia	-	-	-	†	†	†	†	†	†	0.1	0.2	137.3%	0.1%
New Zealand	-	-	-	-	-	-	†	†	†	†	†	57.8%	♦
Pakistan	-	-	-	-	-	-	†	†	†	0.1	0.1	117.0%	0.1%
Philippines	-	†	†	†	†	†	†	†	†	†	†	78.8%	♦
Singapore	-	-	-	-	-	†	†	†	†	†	†	91.0%	♦
South Korea	†	†	†	0.1	0.3	0.6	0.8	0.9	1.1	1.6	2.5	54.0%	1.3%
Taiwan	†	†	†	†	†	†	†	0.1	0.2	0.3	0.6	63.3%	0.3%
Thailand	-	-	†	†	†	†	†	0.1	0.5	0.8	1.5	75.3%	0.8%
Vietnam	-	-	-	-	-	-	†	†	†	†	†	-	♦
Other Asia Pacific	†	†	†	†	†	†	†	†	†	†	†	-0.3%	♦
Total Asia Pacific	1.2	1.6	1.9	2.3	2.8	3.9	6.4	10.9	18.2	36.0	62.6	73.7%	33.7%
Total World	2.6	3.7	5.0	6.8	11.4	19.3	31.4	60.6	96.7	134.5	185.9	38.2%	100.0%
of which: OECD	2.5	3.5	4.9	6.5	10.9	18.6	29.6	56.3	85.6	110.4	143.6	30.1%	77.3%
Non-OECD	0.1	0.1	0.2	0.3	0.4	0.8	1.8	4.3	11.1	24.1	42.3	75.3%	22.7%
European Union	0.7	1.5	2.5	3.8	7.4	14.1	23.1	46.4	71.4	85.3	98.4	15.3%	52.9%
Former Soviet Union	-	-	-	-	-	-	†	†	0.3	0.6	0.5	-25.9%	0.3%

*Based on gross generation and not accounting for cross-border electricity supply.

†Less than 0.05.

♦Less than 0.05%.

Notes: Annual changes and shares of total are calculated using million tonnes oil equivalent figures.

Renewables: consumption – wind*

Terawatt-hours	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Change 2014 over 2013	2014 share of total
US	14.3	18.0	26.9	34.8	55.9	74.6	95.6	121.4	142.2	169.5	183.6	8.3%	26.0%
Canada	0.9	1.6	2.4	3.0	3.8	6.6	8.6	10.1	11.2	11.5	11.3	-1.5%	1.6%
Mexico	†	†	0.1	0.3	0.3	0.6	1.3	1.6	3.6	5.6	7.2	28.5%	1.0%
Total North America	15.3	19.6	29.4	38.0	59.9	81.8	105.5	133.1	157.1	186.6	202.1	8.3%	28.6%
Argentina	0.1	0.1	0.1	0.1	†	†	†	†	0.4	0.5	0.6	37.3%	0.1%
Brazil	0.1	0.1	0.2	0.6	1.2	1.4	2.2	2.7	4.9	6.5	11.9	84.8%	1.7%
Chile	†	†	†	†	†	0.1	0.3	0.3	0.4	0.5	1.4	160.1%	0.2%
Colombia	0.1	†	0.1	†	0.1	0.1	†	†	0.1	0.1	0.1	21.9%	♦
Ecuador	-	-	-	†	†	†	†	†	†	0.1	0.1	40.6%	♦
Peru	†	†	†	†	†	†	†	†	†	†	0.3	2036.0%	♦
Trinidad & Tobago	-	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-	-
Other S. & Cent. America	0.4	0.3	0.4	0.4	0.4	0.7	0.9	0.9	1.6	2.0	3.4	65.2%	0.5%
Total S. & Cent. America	0.6	0.6	0.8	1.1	1.7	2.3	3.5	4.0	7.4	9.6	17.7	84.5%	2.5%
Austria	0.9	1.3	1.8	2.0	2.0	2.0	2.1	1.9	2.5	3.2	3.9	22.8%	0.5%
Azerbaijan	-	-	-	-	-	†	†	†	-	†	†	887.5%	♦
Belarus	†	†	†	†	†	†	†	†	†	†	†	-	♦
Belgium	0.1	0.2	0.4	0.5	0.6	1.0	1.3	2.3	2.8	3.6	4.5	24.1%	0.6%
Bulgaria	†	†	†	†	0.1	0.2	0.7	0.9	1.2	1.4	1.4	4.2%	0.2%
Czech Republic	†	†	†	0.1	0.2	0.3	0.3	0.4	0.4	0.5	0.5	-0.4%	0.1%
Denmark	6.6	6.7	6.2	7.2	7.0	6.8	7.9	9.9	10.4	11.2	13.2	17.6%	1.9%
Finland	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.5	0.5	0.8	1.1	43.8%	0.2%
France	0.6	1.0	2.2	4.1	5.7	7.6	9.4	11.6	14.3	15.2	16.2	6.3%	2.3%
Germany	25.5	27.2	30.7	39.7	40.6	38.6	37.8	48.9	50.7	51.7	56.0	8.2%	7.9%
Greece	1.1	1.3	1.7	1.8	2.2	2.5	2.7	3.3	3.8	4.1	4.2	1.5%	0.6%
Hungary	†	†	†	0.1	0.2	0.3	0.5	0.6	0.8	0.7	0.7	-8.4%	0.1%
Republic of Ireland	0.7	1.1	1.6	2.0	2.4	3.0	2.8	4.4	4.0	4.5	5.1	13.2%	0.7%
Italy	1.8	2.3	3.0	4.0	4.9	6.5	9.1	9.9	13.4	14.9	15.1	1.0%	2.1%
Kazakhstan	-	-	†	†	†	†	†	†	†	†	†	-	♦
Lithuania	†	†	†	0.1	0.1	0.2	0.2	0.5	0.5	0.6	0.6	5.5%	0.1%
Netherlands	1.9	2.1	2.7	3.4	4.3	4.6	4.0	5.1	5.0	5.6	5.8	3.2%	0.8%
Norway	0.3	0.5	0.7	0.9	0.9	1.0	0.9	1.3	1.6	1.9	2.2	17.0%	0.3%
Poland	0.1	0.1	0.3	0.5	0.8	1.1	1.7	3.2	4.7	6.0	7.7	27.7%	1.1%
Portugal	0.8	1.7	2.9	4.0	5.8	7.6	9.2	9.2	10.3	12.0	12.1	0.7%	1.7%
Romania	-	-	†	†	†	†	0.3	1.4	2.6	4.5	4.7	-4.5%	0.7%
Russian Federation	†	†	†	†	†	†	†	†	†	†	†	68.7%	♦
Slovakia	†	†	†	†	†	†	†	†	†	†	†	-	♦
Spain	16.2	21.3	23.3	27.8	32.5	37.9	44.2	42.4	49.5	53.9	52.3	-3.0%	7.4%
Sweden	0.9	0.9	1.0	1.4	2.0	2.5	3.5	6.1	7.2	9.9	11.5	16.0%	1.6%
Switzerland	†	†	†	†	†	†	†	0.1	0.1	0.1	0.1	10.9%	♦
Turkey	0.1	0.1	0.1	0.4	0.8	1.5	2.9	4.7	5.9	7.6	8.4	10.7%	1.2%
Turkmenistan	-	-	-	-	-	-	-	-	-	-	-	-	-
Ukraine	†	†	†	†	†	†	0.1	0.1	0.3	0.6	1.1	70.3%	0.2%
United Kingdom	1.9	2.9	4.2	5.3	7.1	9.3	10.2	15.5	19.7	28.4	31.6	11.2%	4.5%
Uzbekistan	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Europe & Eurasia	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.4	1.7	19.2%	0.2%
Total Europe & Eurasia	59.8	71.2	83.2	106.0	121.0	135.1	152.6	184.9	213.2	244.5	261.6	7.0%	37.0%
Iran	†	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.3	0.3	18.0%	♦
Israel	†	†	†	†	†	†	†	†	†	†	†	-	♦
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Middle East	†	†	†	†	†	†	†	†	†	†	†	-	♦
Total Middle East	†	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.3	0.3	17.2%	♦
Algeria	-	-	-	-	-	-	-	-	-	-	†	-	♦
Egypt	0.4	0.5	0.6	0.7	0.9	1.0	1.3	1.5	1.5	1.6	1.8	12.0%	0.3%
South Africa	†	†	†	†	†	†	†	†	†	†	1.1	3243.8%	0.2%
Other Africa	0.3	0.3	0.2	0.3	0.4	0.5	0.8	0.9	1.2	2.0	3.2	62.2%	0.4%
Total Africa	0.7	0.8	0.9	1.0	1.3	1.6	2.2	2.4	2.8	3.6	6.1	68.5%	0.9%
Australia	0.8	1.3	2.2	2.9	3.5	4.4	5.4	6.0	7.7	9.3	10.2	10.6%	1.5%
Bangladesh	-	†	†	†	†	†	†	†	†	†	†	-	♦
China	1.3	1.9	3.7	5.5	13.1	27.6	44.6	70.3	96.0	141.2	158.4	12.2%	22.4%
China Hong Kong SAR	-	-	†	†	†	†	†	†	†	†	†	7.7%	♦
India	5.2	6.0	9.5	11.4	13.3	18.2	21.7	26.4	31.2	34.8	38.4	10.5%	5.4%
Indonesia	-	-	-	†	†	†	†	†	†	†	†	-	♦
Japan	1.4	1.9	2.1	2.7	2.9	3.4	3.9	4.5	4.7	5.1	5.1	-1.2%	0.7%
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-	-
New Zealand	0.4	0.6	0.6	0.9	1.1	1.5	1.6	2.0	2.1	2.0	2.2	9.4%	0.3%
Pakistan	-	-	-	-	-	†	†	†	†	†	0.1	123.5%	♦
Philippines	-	†	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-	♦
Singapore	-	-	-	-	-	-	-	-	-	-	-	-	-
South Korea	†	0.1	0.2	0.4	0.4	0.7	0.8	0.9	0.9	1.1	1.3	11.2%	0.2%
Taiwan	†	0.1	0.3	0.4	0.6	0.8	1.0	1.5	1.4	1.6	1.5	-9.3%	0.2%
Thailand	-	-	-	-	-	†	†	†	0.1	0.4	0.5	33.1%	0.1%
Vietnam	-	-	-	-	†	†	†	0.1	0.1	0.2	0.2	-	♦
Other Asia Pacific	†	†	†	†	†	†	0.1	0.1	0.2	0.3	0.3	19.2%	♦
Total Asia Pacific	9.2	12.0	18.8	24.3	35.0	56.7	79.4	111.7	144.6	196.1	218.3	11.3%	30.9%
Total World	85.6	104.3	133.1	170.6	219.2	277.8	343.4	436.5	525.1	640.7	706.2	10.2%	100.0%
of which: OECD	77.6	94.7	117.6	150.6	188.4	226.5	268.7	328.4	380.7	441.3	475.0	7.6%	67.3%
Non-OECD	7.9	9.7	15.5	20.0	30.7	51.3	74.6	108.1	144.4	199.5	231.2	15.9%	32.7%
European Union	59.4	70.6	82.4	104.6	119.2	132.6	148.7	178.7	205.3	234.3	249.7	6.6%	35.4%
Former Soviet Union	0.1	0.1	0.2	0.3	0.4	0.5	0.6	1.0	1.4	1.9	2.4	27.0%	0.3%

*Based on gross generation and not accounting for cross-border electricity supply.

†Less than 0.05.

♦Less than 0.05%.

Notes: Annual changes and shares of total are calculated using million tonnes oil equivalent figures.

Renewables: consumption – geothermal, biomass and other*

Terawatt-hours	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Change 2014 over 2013	2014 share of total
US	71.9	72.6	73.1	73.9	73.6	73.2	75.1	75.8	77.0	80.7	85.2	5.6%	16.8%
Canada	9.3	9.7	9.2	8.9	7.5	8.2	9.2	6.7	9.5	9.4	9.4	-	1.9%
Mexico	9.1	10.4	9.0	9.8	9.5	9.5	9.3	9.0	8.6	9.2	9.0	-2.5%	1.8%
Total North America	90.4	92.7	91.3	92.6	90.6	90.8	93.6	91.5	95.1	99.4	103.7	4.3%	20.4%
Argentina	1.3	1.4	2.9	2.9	2.9	2.9	2.3	2.3	2.5	2.5	2.5	-	0.5%
Brazil	16.3	18.3	18.7	21.7	23.3	24.4	30.2	37.2	39.7	45.9	56.3	22.5%	11.1%
Chile	2.1	1.9	1.5	2.8	3.2	4.5	2.4	4.9	5.1	5.3	6.5	24.0%	1.3%
Colombia	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.6	0.6	1.5%	0.1%
Ecuador	†	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	35.1%	0.1%
Peru	0.2	0.4	0.4	0.5	0.5	0.5	0.8	0.8	0.7	0.7	0.7	-	0.1%
Trinidad & Tobago	†	†	†	†	†	†	†	†	†	†	†	-	♦
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-	-
Other S. & Cent. America	5.0	4.5	4.9	5.5	6.4	6.9	7.0	6.8	8.5	9.0	9.2	2.0%	1.8%
Total S. & Cent. America	25.4	27.1	29.2	34.1	37.2	40.1	43.4	52.9	57.4	64.3	76.2	18.5%	15.0%
Austria	2.1	2.6	3.4	4.2	4.3	4.3	4.5	4.5	4.6	4.6	4.7	0.9%	0.9%
Azerbaijan	-	-	-	-	-	-	-	-	-	-	-	-	-
Belarus	-	†	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.2	-	♦
Belgium	2.0	2.4	3.3	3.8	4.6	5.5	5.9	6.3	5.5	5.9	5.9	-	1.2%
Bulgaria	-	-	-	-	†	†	†	0.1	0.1	0.1	0.2	48.2%	♦
Czech Republic	0.7	0.7	0.9	1.2	1.4	1.8	2.1	2.6	3.3	3.9	4.8	48.2%	0.9%
Denmark	2.9	3.2	3.1	3.1	3.1	3.3	4.6	4.4	4.4	4.3	4.4	1.1%	0.9%
Finland	10.3	9.5	10.7	9.9	10.4	8.7	11.0	11.1	11.1	11.9	11.6	-2.8%	2.3%
France	3.7	3.9	3.8	4.2	4.4	4.6	5.0	5.6	5.8	6.2	6.7	8.4%	1.3%
Germany	10.5	14.4	18.7	24.4	27.8	30.6	34.3	37.6	44.7	46.7	49.2	5.5%	9.7%
Greece	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-1.1%	♦
Hungary	0.7	1.6	1.2	1.4	1.8	2.2	2.3	1.9	1.7	1.8	1.8	-	0.4%
Republic of Ireland	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.4	0.5	0.5	2.2%	0.1%
Italy	11.1	11.5	12.3	12.5	13.0	13.0	14.8	16.5	18.1	22.7	26.8	17.8%	5.3%
Kazakhstan	-	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	†	†	†	0.1	0.1	0.1	0.1	0.2	0.2	0.4	0.5	36.5%	0.1%
Netherlands	3.3	5.3	5.2	4.0	5.1	6.1	7.1	7.1	7.2	6.0	5.0	-16.1%	1.0%
Norway	0.5	0.4	0.5	0.5	0.5	0.3	0.5	0.5	0.4	0.4	0.4	-	0.1%
Poland	0.9	1.5	2.0	2.6	3.6	5.2	6.3	7.6	10.1	8.6	9.5	10.0%	1.9%
Portugal	1.6	1.8	1.8	2.1	2.0	2.3	2.8	3.1	3.1	3.2	3.2	-1.3%	0.6%
Romania	†	†	†	†	†	†	0.1	0.2	0.2	0.3	0.3	34.8%	0.1%
Russian Federation	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	2.5%	0.1%
Slovakia	†	†	0.4	0.5	0.5	0.5	0.7	0.8	0.9	0.9	0.9	-	0.2%
Spain	3.4	3.5	4.1	3.7	3.2	3.4	3.9	4.5	5.0	5.3	5.0	-6.2%	1.0%
Sweden	7.2	7.4	8.1	9.7	10.2	11.2	12.0	11.5	12.2	11.3	10.5	-7.6%	2.1%
Switzerland	1.0	1.0	1.1	1.2	1.2	1.2	1.3	1.4	1.5	1.6	1.6	-	0.3%
Turkey	0.2	0.2	0.2	0.4	0.4	0.8	1.1	1.2	1.6	2.5	3.9	53.3%	0.8%
Turkmenistan	-	-	-	-	-	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-	0.1	0.1	0.1	-	♦
United Kingdom	7.4	9.1	9.3	9.3	9.6	10.7	12.0	13.1	14.9	18.5	22.9	23.9%	4.5%
Uzbekistan	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Europe & Eurasia	1.8	1.9	2.9	3.9	4.6	5.3	5.7	6.1	7.1	7.1	7.3	3.1%	1.4%
Total Europe & Eurasia	71.8	82.5	93.9	103.5	113.2	122.3	139.4	149.2	165.0	175.8	188.5	7.2%	37.1%
Iran	-	-	-	-	-	-	-	-	†	†	†	-	♦
Israel	-	-	-	-	-	†	†	0.1	0.1	0.1	0.1	-	♦
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Middle East	†	†	†	†	†	†	†	†	†	†	†	11.1%	♦
Total Middle East	†	†	†	†	†	0.1	†	0.1	0.1	0.1	0.1	0.7%	♦
Algeria	-	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-	-
South Africa	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	0.1%
Other Africa	2.1	2.2	2.8	2.2	2.4	2.7	3.0	2.9	3.0	3.3	4.4	34.9%	0.9%
Total Africa	2.4	2.4	3.1	2.5	2.7	3.0	3.3	3.2	3.3	3.6	4.7	31.9%	0.9%
Australia	2.8	3.9	3.9	4.3	3.7	2.8	2.4	2.6	3.1	3.2	3.2	-	0.6%
Bangladesh	-	-	-	-	-	†	†	†	†	†	†	-	♦
China	2.5	2.7	2.7	2.6	2.6	2.6	12.2	36.0	47.2	47.1	47.1	-	9.3%
China Hong Kong SAR	-	-	-	-	-	-	-	-	0.1	0.1	0.1	-	♦
India	3.3	4.0	5.0	6.2	7.7	9.7	11.8	14.0	15.9	17.5	18.7	6.6%	3.7%
Indonesia	6.7	6.6	6.7	7.1	8.4	9.4	9.5	9.6	9.7	9.6	9.9	2.3%	1.9%
Japan	21.6	25.3	25.4	26.0	25.1	24.3	24.5	24.2	25.3	26.4	27.0	2.3%	5.3%
Malaysia	-	-	-	-	-	1.5	1.4	1.5	1.5	1.1	1.1	-	0.2%
New Zealand	3.2	3.6	3.9	4.1	4.7	5.4	6.4	6.7	6.8	7.0	7.8	11.9%	1.5%
Pakistan	-	-	-	-	-	-	-	-	-	-	-	-	-
Philippines	10.3	9.9	10.5	10.2	10.7	10.3	10.0	10.1	10.4	9.8	10.0	1.8%	2.0%
Singapore	1.0	1.0	1.0	1.0	1.1	1.1	1.2	1.2	0.7	0.7	0.7	-	0.1%
South Korea	0.4	0.3	0.4	0.6	0.7	0.8	1.2	1.3	1.2	1.2	1.3	2.9%	0.3%
Taiwan	3.2	3.2	3.3	3.6	3.4	3.4	3.6	3.6	3.6	3.5	3.5	-0.6%	0.7%
Thailand	1.3	1.6	1.5	1.9	2.7	3.1	3.3	3.3	4.6	4.6	4.6	♦	0.9%
Vietnam	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-	♦
Other Asia Pacific	0.1	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.1%	0.1%
Total Asia Pacific	56.4	62.5	64.7	68.1	71.4	75.1	87.9	114.5	130.5	132.4	135.4	2.3%	26.6%
Total World	246.5	267.2	282.2	300.8	315.1	331.3	367.6	411.5	451.4	475.4	508.5	7.0%	100.0%
of which: OECD	191.8	209.6	219.6	233.1	240.5	250.0	268.7	279.1	299.9	316.0	335.3	6.1%	65.9%
Non-OECD	54.6	57.6	62.6	67.7	74.6	81.2	98.9	132.4	151.5	159.4	173.2	8.7%	34.1%
European Union	68.3	78.7	88.8	97.3	106.4	114.8	131.3	140.7	155.5	165.2	176.6	6.9%	34.7%
Former Soviet Union	0.5	0.6	0.7	0.7	0.7	1.1	1.7	1.8	2.3	2.4	2.7	11.9%	0.5%

*Based on gross generation and not accounting for cross-border electricity supply.

†Less than 0.05.

♦Less than 0.05%.

Notes: Annual changes and shares of total are calculated using million tonnes oil equivalent figures.

Renewable energy – geothermal

Cumulative installed geothermal power capacity*

Megawatts	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Change 2014 over 2013	2014 share of total
Austria	†	†	†	†	†	1	1	1	1	2	2	–	♦
Australia	1	1	1	1	1	1	1	1	1	1	1	–	♦
China	28	28	28	28	24	24	24	24	24	27	27	–	0.2%
Costa Rica	163	163	163	163	163	166	166	208	208	208	208	–	1.7%
El Salvador	151	151	195	195	204	204	204	204	204	204	204	–	1.6%
Ethiopia	7	7	7	7	7	7	7	7	7	7	7	–	0.1%
France (Guadeloupe)	15	15	15	15	16	16	16	16	16	17	17	–	0.1%
Germany	†	†	†	3	3	8	8	8	12	17	27	53.8%	0.2%
Guatemala	33	33	33	52	52	52	52	52	52	48	48	♦	0.4%
Iceland	202	202	312	485	576	576	575	665	665	665	665	♦	5.3%
Indonesia	807	850	850	980	1052	1189	1193	1209	1339	1339	1401	4.6%	11.1%
Italy	791	791	811	811	811	843	883	883	875	876	916	4.6%	7.3%
Japan	535	534	534	532	532	500	502	502	502	503	539	7.2%	4.3%
Kenya	167	167	167	170	174	174	209	212	217	253	590	133.7%	4.7%
Mexico	960	960	960	960	965	965	965	887	812	834	834	–	6.6%
New Zealand	370	425	425	443	585	625	723	723	723	971	971	–	7.7%
Nicaragua	78	78	78	88	88	88	88	88	160	160	160	–	1.3%
Papua New Guinea	6	6	36	56	56	56	56	56	56	56	56	–	0.4%
Philippines	1932	1978	1978	1958	1958	1953	1966	1783	1848	1868	1917	2.6%	15.2%
Portugal (The Azores)	16	16	16	29	29	29	29	29	29	29	29	–	0.2%
Russia (Kamchatka)	79	79	79	82	82	82	82	82	82	82	82	–	0.7%
Thailand	†	†	†	†	†	†	†	†	†	†	†	–	♦
Turkey	20	20	28	28	35	82	94	114	114	226	368	62.6%	2.9%
US	2866	2893	2940	3037	3163	3289	3308	3318	3450	3524	3525	♦	28.0%
Total World	9225	9396	9655	10121	10575	10928	11152	11071	11397	11917	12594	5.7%	100.0%

*End of year.
†Less than 0.05.
♦Less than 0.05%.

Sources: International Geothermal Association, ThinkGeoEnergy and national sources.

Renewable energy – solar

Cumulative installed photovoltaic (PV) power*

Megawatts	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Change 2014 over 2013	2014 share of total
US	111	190	295	455	753	1188	2040	3959	7328	12079	18280	51.3%	10.1%
Canada	14	17	21	26	33	95	281	558	766	1211	1710	41.3%	0.9%
Mexico	18	19	20	21	22	25	31	40	52	112	176	56.6%	0.1%
Total North America	143	226	335	502	808	1308	2352	4557	8146	13402	20166	50.5%	11.2%
Austria	21	24	26	29	32	53	96	187	363	626	766	22.4%	0.4%
Belgium	–	4	4	24	108	649	1067	2088	2772	3009	3074	2.2%	1.7%
Bulgaria	–	–	–	†	1	7	32	167	1010	1020	1022	0.2%	0.6%
Czech Republic	–	–	1	4	65	463	1953	1971	2087	2132	2134	0.1%	1.2%
Denmark	2	3	3	3	3	5	7	17	408	563	603	7.1%	0.3%
Finland	2	2	3	3	4	6	8	9	9	10	10	–	♦
France	23	26	37	75	179	369	1204	2974	4090	4733	5660	19.6%	3.1%
Germany	1105	2056	2899	4170	6120	10566	17900	25400	33000	36300	38200	5.2%	21.2%
Greece	3	5	7	9	20	56	206	624	1536	2579	2595	0.6%	1.4%
Italy	31	38	50	120	458	1181	3502	12807	16454	18074	18460	2.1%	10.2%
Netherlands	43	45	48	49	53	64	85	143	363	737	1098	49.0%	0.6%
Norway	7	7	8	8	8	9	9	10	10	11	13	22.6%	♦
Portugal	2	2	4	15	56	99	135	169	228	281	391	39.1%	0.2%
Romania	–	–	–	–	–	–	–	3	49	1022	1293	26.5%	0.7%
Slovakia	–	–	–	–	–	–	145	487	543	588	590	0.3%	0.3%
Spain	24	49	148	705	3463	3523	4350	4897	5216	5333	5358	0.5%	3.0%
Sweden	4	4	4	5	5	9	12	16	24	43	79	82.9%	♦
Switzerland	23	27	30	36	48	74	111	211	437	756	1076	42.3%	0.6%
Turkey	2	2	3	3	4	5	6	7	12	18	58	227.7%	♦
United Kingdom	8	11	14	18	24	27	95	994	1747	2780	5228	88.1%	2.9%
Rest of European Union	24	25	25	25	29	35	50	163	360	536	653	21.7%	0.4%
Total Europe	1324	2330	3311	5300	10680	17198	30971	53343	70718	81151	88360	8.9%	49.0%
Australia	52	61	70	83	105	188	571	1377	2415	3226	4136	28.2%	2.3%
Chile	–	–	–	–	–	–	–	–	–	3	368	12166.7%	0.2%
China	64	68	80	100	140	300	800	3300	6800	17639	28199	59.9%	15.6%
Israel	10	18	30	31	71	136	177	481	1176	2320	3062	32.0%	1.7%
India	1	1	1	2	3	24	70	190	236	481	731	52.1%	0.4%
Japan	1132	1422	1709	1919	2144	2627	3618	4914	6632	13599	23300	71.3%	12.9%
Malaysia	–	–	6	7	9	11	13	14	25	73	160	118.3%	0.1%
South Africa	–	–	–	–	–	12	40	68	75	122	966	691.8%	0.5%
South Korea	14	19	42	87	363	530	656	735	1030	1475	2384	61.6%	1.3%
Taiwan	0	0	0	4	9	19	32	102	206	376	776	106.4%	0.4%
Thailand	11	24	31	33	33	43	49	243	388	824	1299	57.7%	0.7%
Rest of World	933	915	1043	1239	1565	1799	1997	1981	3712	5459	6488	18.9%	3.6%
Total Others	2217	2528	3011	3504	4442	5689	8022	13404	22695	45597	71869	57.6%	39.8%
Total World	3684	5083	6658	9305	15929	24194	41345	71304	101560	140150	180396	28.7%	100.0%

*End of year.

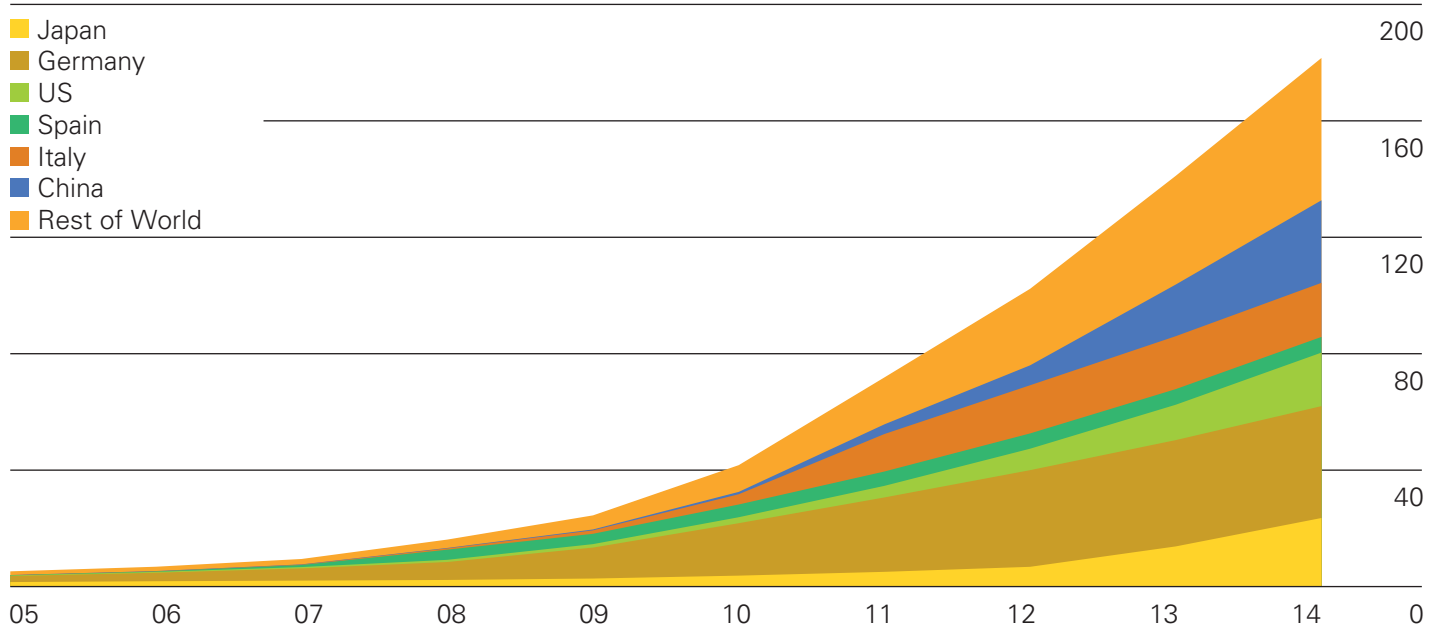
†Less than 0.05.

♦Less than 0.05%.

Sources: IEA Photovoltaic Power Systems Programme, EPIA, EurObserver, Bloomberg New Energy Finance and national sources.

Solar PV generation capacity

Gigawatts, cumulative installed capacity



Source: includes data from IEA Photovoltaic Power Systems Programme, EPIA, EurObserver.

Renewable energy – wind

Cumulative installed wind turbine capacity*

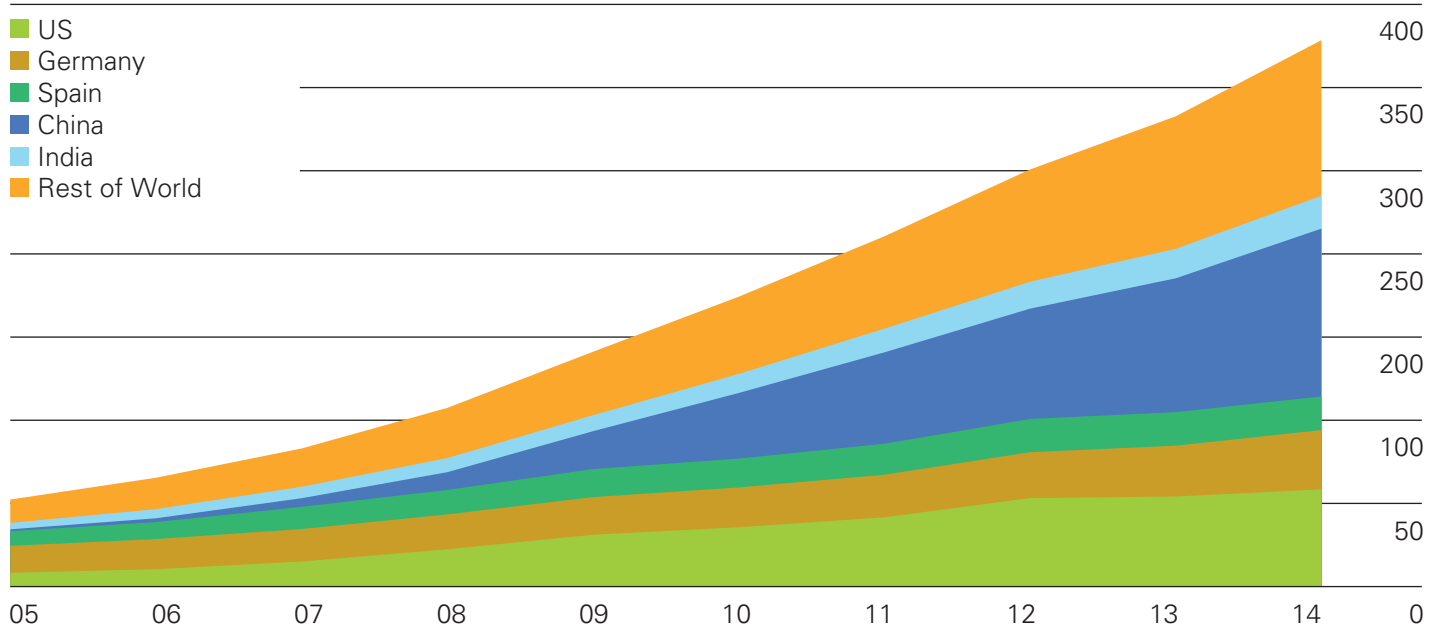
Megawatts	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Change 2014 over 2013	2014 share of total
US	6750	9181	11635	16879	25237	35159	40274	47084	60208	61292	66146	7.9%	17.7%
Canada	444	683	1459	1845	2371	3321	4011	5278	6214	7813	9684	23.9%	2.6%
Mexico	3	3	86	86	332	453	769	1123	1512	1988	2510	26.3%	0.7%
Total North America	7197	9867	13180	18810	27940	38933	45054	53485	67934	71093	78340	10.2%	21.0%
Argentina	30	31	31	31	33	33	33	112	166	242	295	21.9%	0.1%
Brazil	29	29	237	247	341	606	931	1431	2507	3445	6228	80.8%	1.7%
Costa Rica	79	79	79	79	104	129	179	192	207	249	299	20.1%	0.1%
Other S. & Cent. America	54	54	56	79	153	321	463	930	1154	1663	2841	70.8%	0.8%
Total S. & Cent. America	192	193	403	436	631	1089	1606	2665	4034	5599	9663	72.6%	2.6%
Austria	607	820	966	983	997	997	1013	1082	1378	1661	2072	24.7%	0.6%
Belgium	106	177	222	297	385	605	955	1147	1444	1720	1960	14.0%	0.5%
Bulgaria	–	–	–	41	113	335	488	582	643	650	660	1.5%	0.2%
Denmark	3083	3087	3101	3088	3159	3408	3805	3927	4137	4747	4778	0.7%	1.3%
Finland	83	85	89	113	113	117	169	178	268	428	611	42.8%	0.2%
France	386	775	1585	2471	3671	4775	5940	6811	7626	8207	9143	11.4%	2.5%
Germany	16623	18390	20579	22194	23826	25703	27191	29071	31315	34700	40500	16.7%	10.9%
Greece	481	603	749	850	997	1155	1323	1634	1749	1865	1980	6.2%	0.5%
Hungary	3	17	60	65	162	229	323	357	357	357	357	–	0.1%
Ireland	339	498	748	807	1015	1187	1449	1688	1812	2100	2322	10.6%	0.6%
Italy	1261	1713	2118	2721	3731	4845	5793	6733	7998	8448	8556	1.3%	2.3%
Netherlands	1081	1221	1557	1745	2222	2226	2241	2309	2552	2714	2876	6.0%	0.8%
Norway	158	275	328	355	385	390	411	487	683	793	841	6.1%	0.2%
Poland	55	65	170	313	472	849	1231	1667	2547	3441	3885	12.9%	1.0%
Portugal	585	1087	1716	2150	2829	3474	3837	4214	4363	4557	4683	2.8%	1.3%
Romania	–	–	3	15	76	129	470	990	1913	2608	2962	13.6%	0.8%
Spain	8462	10013	11595	15155	16699	19160	19715	21160	22722	22898	22987	0.4%	6.2%
Sweden	478	554	571	789	1024	1537	2141	2904	3750	4474	5524	23.5%	1.5%
Turkey	20	20	50	147	364	792	1320	1729	2261	2760	3762	36.3%	1.0%
United Kingdom	889	1336	1955	2477	3406	4424	5397	6458	8894	11209	12809	14.3%	3.4%
Other Europe & Eurasia	116	160	246	324	338	565	885	1082	1557	1809	2078	14.9%	0.6%
Total Europe & Eurasia	34816	40897	48408	57100	65983	76902	86096	96210	109969	122145	135346	10.8%	36.3%
Iran	15	21	48	74	84	92	90	91	91	131	131	–	♦
Other Middle East	9	9	9	9	9	9	11	13	19	19	26	36.8%	♦
Total Middle East	24	30	57	83	93	101	101	104	110	150	157	4.7%	♦
Egypt	146	180	231	310	384	552	552	552	552	634	694	9.5%	0.2%
Morocco	54	64	122	124	206	254	263	292	394	495	795	60.6%	0.2%
South Africa	3	3	3	3	8	8	10	10	10	10	570	5600.0%	0.2%
Tunisia	28	28	28	28	62	160	247	277	277	305	305	–	0.1%
Other Africa	3	3	2	4	44	41	41	115	208	498	514	3.2%	0.1%
Total Africa	234	278	386	469	704	1015	1113	1246	1441	1942	2878	48.2%	0.8%
Australia	421	717	796	972	1587	1886	2084	2476	2834	3489	4056	16.3%	1.1%
China	769	1264	2588	5875	12121	25853	44781	62412	75324	91413	114609	25.4%	30.7%
India	3000	4430	6270	7845	9655	10926	13065	16179	18420	20150	22465	11.5%	6.0%
Japan	991	1159	1457	1681	2033	2208	2429	2595	2673	2722	2840	4.3%	0.8%
New Zealand	167	167	170	321	325	467	495	603	603	603	603	–	0.2%
Pakistan	–	–	–	–	–	–	–	6	56	106	256	141.5%	0.1%
Philippines	–	–	–	–	–	–	–	–	–	66	216	227.3%	0.1%
South Korea	69	89	194	235	311	311	342	370	446	506	553	9.3%	0.1%
Taiwan	9	24	102	186	250	374	476	523	571	614	633	3.1%	0.2%
Thailand	–	–	–	–	–	–	1	10	112	223	223	–	0.1%
Other Asia Pacific	47	72	78	78	164	74	93	113	118	123	123	–	♦
Total Asia Pacific	5473	7922	11655	17193	26446	42099	63766	85287	101158	120015	146577	22.1%	39.3%
Total World	47935	59186	74089	94091	121797	160139	197736	238997	284646	320944	372961	16.2%	100.0%

*End of year.
♦Less than 0.05%.

Sources: Navigant Consulting, Global Wind Energy Council and national sources.

Wind capacity

Gigawatts, cumulative installed capacity



Source: includes data from Navigant Consulting and the Global Wind Energy Council.