

BP Statistical Review of World Energy June 2015

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Hydroelectricity

36 Consumption

64th edition

 Hydroelectricity

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	61.3	61.8	66.1	56.6	58.2	62.5	59.5	73.0	63.1	61.4	59.1	-3.7%	6.7%
Canada	76.6	82.1	80.2	83.6	85.2	82.9	79.4	85.2	86.0	88.5	85.7	-3.1%	9.8%
Mexico	5.7	6.2	6.9	6.1	8.8	6.0	8.3	8.1	7.1	6.2	8.6	39.0%	1.0%
Total North America	143.6	150.1	153.2	146.3	152.2	151.4	147.2	166.3	156.2	156.1	153.5	-1.7%	17.5%
Argentina	8.0	9.0	9.8	8.5	8.4	9.2	9.2	9.0	8.4	9.2	9.3	0.8%	1.1%
Brazil	72.6	76.4	78.9	84.6	83.6	88.5	91.2	96.9	94.0	88.5	83.6	-5.5%	9.5%
Chile	4.9	6.0	7.0	5.2	5.7	5.9	5.0	4.7	4.6	4.5	5.4	20.4%	0.6%
Colombia	9.0	9.0	9.6	10.0	10.4	9.2	9.1	11.1	10.8	10.0	10.1	0.8%	1.2%
Ecuador	1.6	1.5	1.6	2.0	2.5	2.1	2.0	2.5	2.8	2.5	2.6	3.8%	0.3%
Peru	4.0	4.1	4.4	4.4	4.3	4.5	4.5	4.9	5.0	4.9	4.9	-0.6%	0.6%
Trinidad & Tobago	—	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	15.9	17.4	18.4	18.8	19.6	19.4	17.3	18.8	18.5	19.0	18.7	-1.2%	2.1%
Other S. & Cent. America	17.7	18.3	18.4	19.4	19.4	19.1	20.2	20.3	21.2	21.8	20.8	-4.9%	2.4%
Total S. & Cent. America	133.8	141.6	148.2	152.9	154.0	157.9	158.7	168.1	165.2	160.4	155.4	-3.1%	17.7%
Austria	8.3	8.3	8.1	8.4	8.7	9.2	8.7	7.7	9.9	8.4	8.1	-3.7%	0.9%
Azerbaijan	0.6	0.7	0.6	0.5	0.5	0.5	0.8	0.6	0.4	0.3	0.3	-12.6%	♦
Belarus	†	†	†	†	†	†	†	†	†	†	†	—	♦
Belgium	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-29.2%	♦
Bulgaria	0.7	1.0	0.9	0.7	0.7	0.8	1.1	0.7	0.7	0.9	1.0	8.0%	0.1%
Czech Republic	0.5	0.5	0.6	0.5	0.5	0.6	0.6	0.4	0.5	0.7	0.4	-31.9%	0.1%
Denmark	†	†	†	†	†	†	†	†	†	†	†	12.6%	♦
Finland	3.4	3.1	2.6	3.2	3.9	2.9	2.9	2.8	3.8	2.9	3.0	4.2%	0.3%
France	13.5	11.8	12.7	13.2	13.6	13.0	14.3	10.3	13.4	15.8	14.2	-10.3%	1.6%
Germany	4.5	4.4	4.5	4.8	4.6	4.3	4.8	4.0	5.0	5.2	4.6	-10.9%	0.5%
Greece	1.1	1.1	1.3	0.6	0.7	1.2	1.7	0.9	1.0	1.5	1.0	-30.1%	0.1%
Hungary	†	†	†	†	†	0.1	0.1	0.1	†	†	0.1	40.8%	♦
Republic of Ireland	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	22.0%	♦
Italy	9.6	8.2	8.4	7.4	9.4	11.1	11.6	10.4	9.5	11.9	12.9	8.0%	1.5%
Kazakhstan	1.8	1.8	1.8	1.8	1.7	1.6	1.8	1.8	1.7	1.7	1.7	-1.3%	0.2%
Lithuania	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-24.4%	♦
Netherlands	†	†	†	†	†	†	†	†	†	†	†	-2.0%	♦
Norway	24.7	30.9	27.1	30.6	31.8	28.8	26.7	27.6	32.3	29.2	30.9	5.9%	3.5%
Poland	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.5	0.5	0.6	0.5	-10.9%	0.1%
Portugal	2.2	1.0	2.4	2.2	1.5	1.8	3.7	2.7	1.5	3.3	3.7	10.5%	0.4%
Romania	3.7	4.6	4.2	3.6	3.9	3.5	4.5	3.3	2.7	3.3	4.2	26.0%	0.5%
Russian Federation	40.2	39.5	39.6	40.5	37.7	39.9	38.1	37.3	37.3	41.3	39.3	-5.0%	4.5%
Slovakia	0.9	1.0	1.0	1.0	0.9	1.0	1.2	0.9	0.9	1.1	1.0	-12.5%	0.1%
Spain	7.2	4.0	5.8	6.2	5.3	6.0	9.6	6.9	4.6	8.3	8.9	6.5%	1.0%
Sweden	13.7	16.5	14.0	15.0	15.7	14.9	15.1	15.1	17.8	13.9	14.6	5.0%	1.7%
Switzerland	7.6	7.1	7.0	8.0	8.2	8.1	8.2	7.2	8.6	8.6	8.5	-1.3%	1.0%
Turkey	10.4	9.0	10.0	8.1	7.5	8.1	11.7	11.8	13.1	13.4	9.1	-32.0%	1.0%
Turkmenistan	†	†	†	†	†	†	†	†	†	†	†	—	♦
Ukraine	2.7	2.8	2.9	2.3	2.6	2.7	2.9	2.4	2.4	3.1	1.9	-37.8%	0.2%
United Kingdom	1.1	1.1	1.0	1.1	1.2	1.2	0.8	1.3	1.2	1.1	1.3	26.2%	0.2%
Uzbekistan	1.6	1.4	1.4	1.4	2.6	2.1	2.3	2.3	2.5	2.4	2.4	—	0.3%
Other Europe & Eurasia	18.9	19.1	18.4	17.7	18.5	20.2	23.3	19.4	19.8	22.4	21.7	-3.2%	2.5%
Total Europe & Eurasia	179.9	179.8	177.3	179.8	182.5	184.3	197.5	178.8	191.6	201.9	195.7	-3.1%	22.3%
Iran	2.7	3.0	4.2	4.1	1.7	1.5	2.2	2.4	2.8	3.4	3.4	1.2%	0.4%
Israel	†	†	†	†	†	†	†	†	†	†	†	—	♦
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Middle East	1.3	2.2	2.5	2.2	1.5	1.3	1.9	1.9	2.3	2.0	1.8	-12.8%	0.2%
Total Middle East	4.0	5.1	6.6	6.3	3.2	2.8	4.0	4.3	5.1	5.4	5.2	-4.1%	0.6%
Algeria	0.1	0.1	†	0.1	0.1	0.1	†	0.1	0.1	†	†	94.9%	♦
Egypt	2.9	2.9	2.9	3.5	3.3	2.9	3.0	2.9	3.2	2.9	3.1	5.3%	0.4%
South Africa	0.2	0.3	0.7	0.2	0.3	0.3	0.5	0.5	0.3	0.3	0.3	—	♦
Other Africa	16.6	17.0	18.3	17.8	18.2	19.1	21.3	20.5	22.2	23.2	24.2	4.2%	2.7%
Total Africa	19.8	20.3	21.9	21.5	21.9	22.4	24.8	24.0	25.7	26.4	27.5	4.4%	3.1%
Australia	3.6	3.6	3.6	3.3	2.7	2.5	3.8	3.2	3.8	4.4	3.3	-25.7%	0.4%
Bangladesh	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	-22.9%	♦
China	80.0	89.8	98.6	109.8	144.1	139.3	163.4	158.2	197.3	208.2	240.8	15.7%	27.4%
China Hong Kong SAR	—	—	—	—	—	—	—	—	—	—	—	—	—
India	19.0	22.0	25.4	27.7	26.0	24.0	25.0	29.8	26.2	29.8	29.6	-0.8%	3.4%
Indonesia	2.2	2.4	2.2	2.6	2.6	2.6	3.9	2.8	2.9	3.8	3.4	-12.0%	0.4%
Japan	21.1	17.9	20.4	17.5	17.5	16.4	20.6	19.3	18.3	19.0	19.8	4.0%	2.3%
Malaysia	1.3	1.2	1.6	1.5	1.9	1.6	1.6	1.8	2.1	2.7	2.7	—	0.3%
New Zealand	6.1	5.3	5.3	5.3	5.1	5.5	5.6	5.7	5.2	5.2	5.5	5.6%	0.6%
Pakistan	5.5	6.9	6.8	7.2	6.1	6.4	6.7	6.9	4.8	7.0	7.2	2.9%	0.8%
Philippines	1.9	1.9	2.2	1.9	2.2	2.2	1.8	2.2	2.3	2.3	2.1	-9.3%	0.2%
Singapore	—	—	—	—	—	—	—	—	—	—	—	—	—
South Korea	1.0	0.8	0.8	0.8	0.7	0.6	0.8	1.0	0.9	1.0	0.8	-15.1%	0.1%
Taiwan	0.7	0.9	0.9	1.0	0.9	0.8	0.9	0.9	1.2	1.2	0.9	-20.3%	0.1%
Thailand	1.4	1.3	1.8	1.8	1.6	1.6	1.3	1.8	2.0	1.3	1.2	-4.6%	0.1%
Vietnam	4.3	3.7	4.5	5.1	5.9	6.8	6.2	9.3	11.9	12.1	12.3	1.3%	1.4%
Other Asia Pacific	6.1	6.5	7.3	7.9	8.4	8.0	10.0	11.0	10.9	13.2	12.0	-9.1%	1.4%
Total Asia Pacific	154.2	164.4	181.7	193.6	226.0	218.5	251.7	254.0	290.0	311.4	341.6	9.7%	38.9%
Total World	635.2	661.3	689.0	700.4	739.9	737.4	783.9	795.5	833.8	861.6	879.0	2.0%	100.0%
of which: OECD	292.4	295.0	300.2	292.3	302.0	299.2	309.4	314.7	316.5	320.3	315.7	-1.5%	35.9%
Non-OECD	342.9	366.4	388.8	408.1	437.9	438.1	474.5	480.8	517.3	541.3	563.3	4.1%	64.1%
European Union	74.6	70.6	71.2	71.2	74.3	76.0	85.6	71.0	76.3	83.0	83.8	0.9%	9.5%
Former Soviet Union	56.2	55.8	55.5	56.4	53.9	55.6	55.8	54.5	54.6	58.9	55.4	-6.0%	6.3%

*Based on gross primary generation 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.

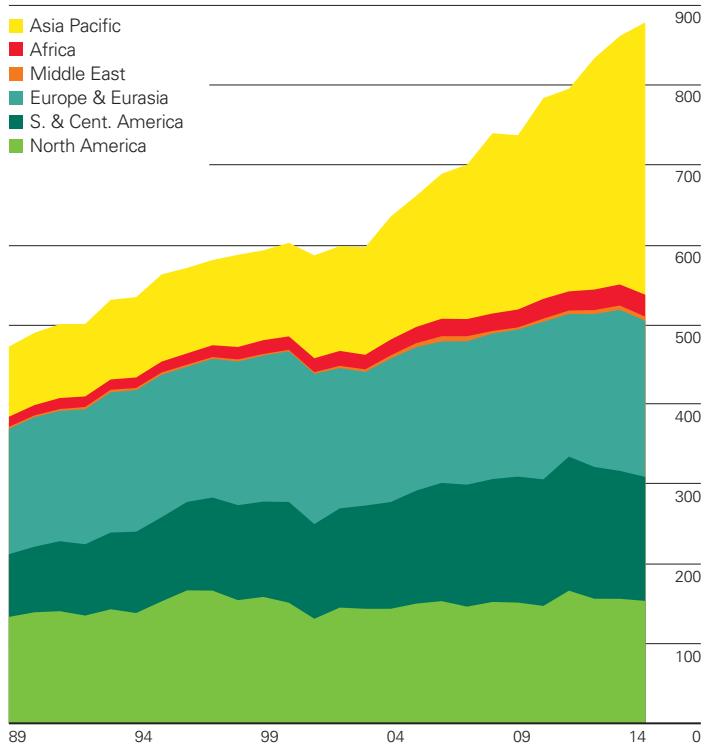
†Less than 0.05.

♦Less than 0.05%.

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

Hydroelectricity consumption by region

Million tonnes oil equivalent



Global hydroelectric output grew by 2.0%. This was slower than the previous two years and below the 10-year average of 3.3%. Nearly all global growth came from China which grew 15.7%. This was partially offset by large declines in Brazil, Turkey, North America and Russia.