

Nuclear power in NEA member countries

Situation as of 31 December 2008

At the end of 2008, the total nuclear generating capacity of the 345 reactors connected to the grid in NEA member countries was 309.3 gigawatts (GWe). Another 15 reactors totalling 15.9 GWe were under construction and 23 reactors

totalling 28.4 GWe were firmly committed. These and other statistics are provided in the latest edition of *Nuclear Energy Data*, as well as short country reports on important trends and issues.

Nuclear generating capacity (net GWe) and percentage of total electricity generating capacity ^(a)								
Country	2008		2010		2020		2030	
	Nuclear	%	Nuclear	%	Nuclear	%	Nuclear	%
Belgium (c)	5.8 (b)	34.9	5.8 - 5.9	35.2 - 33.7	4.0 - 5.9	20.0 - 23.6	N/A	N/A
Canada	12.7	10.9	11.4 - 14.3	9.6 - N/A	11.4 - 15.3	8.7 - N/A	N/A	N/A
Czech Republic	3.6	20.3	3.6 - 3.8	21.2 - 21.1	3.8 - 4.9	21.7 - 26.9	6.0 - 6.2	30.8 - 30.2
Finland	2.7	21.4	2.7	19.3	4.3	25.3 - 24.0	3.8	22.0 - 20.4
France	63.3	53.8	63.1	52.1 - 51.7	64.6 - 66.4	N/A	N/A	N/A
Germany	20.4 (b)	13.8	20.4	13.6 - 13.2	3.5	2.3 - 2.1	0.0	0.0 - 0.0
Hungary	1.9 (b)	23.8	1.9	23.4 - 21.3	1.9	21.5 - 20.1	1.9	21.0 - 18.0
Japan (e, f)	47.5 *	19.9	N/A	N/A	N/A	N/A	N/A	N/A
Korea	17.7	24.8	18.7	24.6	31.5	31.5	N/A	N/A
Mexico	1.4	2.4	1.4 - 1.6	N/A - 2.6	N/A - 1.6	N/A	N/A - 1.6	N/A
Netherlands	0.5	2.6	0.5	2.3 - 2.2	0.5	N/A	0.5	N/A
Slovak Republic	1.7	24.2	1.6 - 1.8	24.2 - 22.2	2.5 - 3.9	31.3 - 36.3	3.4 - 4.1	33.0 - 35.3
Spain	7.5	8.3	7.6	8.5	7.6	6.0	N/A	N/A
Sweden	9.0 *	26.3	10.1 - N/A	N/A	10.1 - N/A	N/A	10.1 - N/A	N/A
Switzerland	3.2	18.7	3.2 - N/A	18.7 - N/A	3.2 - N/A	17.7 - N/A	3.9 - N/A	20.7 - N/A
United Kingdom (d)	10.1	12.6	10.5	11.9 - 11.8	4.4 - 5.8	5.0 - 6.5	N/A	N/A
United States	100.3 (b)	9.9	101.2	9.7	105.1 - 113.8	9.7 - 10.5	74.3 - 132.2	6.1 - 10.8
Total/average	309.3	12.9	-	-	-	-	-	-

(a) Including electricity generated by the user (autoproduction) unless stated otherwise.
 (b) Provisional data.
 (c) By law, Belgium's nuclear power plants must be retired from service after 40 years of operation, except in the case of a *force majeure* called by Belgian authorities. The high figures take into account this *force majeure*.

(d) Excluding electricity generated by the user (autoproduction).
 (e) For fiscal year.
 (f) Gross data converted to net by the Secretariat.
 * Secretariat estimate.
 N/A Not available.

Status of nuclear power plants and corresponding capacity (net GWe)								
Country	Connected to the grid		Under construction		Firmly committed*		Planned shutdown**	
	Units	Capacity	Units	Capacity	Units	Capacity	Units	Capacity
Belgium	7	5.8	-	-	-	-	-	-
Canada	20 (a)	12.7	-	-	-	-	-	-
Czech Republic	6	3.6	-	-	-	-	-	-
Finland	4	2.7	1	1.6	-	-	-	-
France	59	63.3	1	1.6	1	1.6	1	0.1
Germany	17	20.4	-	-	-	-	6	6.1
Hungary	4	1.9	-	-	-	-	-	-
Japan (e)	55	47.5	4 (f)	3.8	11	13.0	1	0.4
Korea	20	17.7	6 (g)	6.8	2	2.8	-	-
Mexico	2	1.4	-	-	-	-	-	-
Netherlands	1	0.5	-	-	-	-	-	-
Slovak Republic	4	1.7 (c)	2 (d)	0.9	-	-	-	-
Spain	8	7.5	-	-	-	-	-	-
Sweden	10	9.0	-	-	-	-	-	-
Switzerland	5	3.2	-	-	-	-	-	-
United Kingdom	19	10.1	-	-	-	-	4	1.4
United States	104	100.3	1 (b)	1.2	9	11.0	-	-
Total	345	309.3	15	15.9	23	28.4	12	8.0

(a) Includes three units currently under refurbishment (Point Lepreau and Bruce A units 1 and 2).
 (b) Watts Bar 2 construction resumed.
 (c) Bohunice 2 retired from service on 31 December 2008.
 (d) Mochovce 3 and 4 construction resumed.
 (e) Gross data converted to net by the Secretariat.

(f) Includes one plant with government approval but no concrete poured and ongoing work to restart Monju FBR.
 (g) Includes one plant with government approval but no concrete poured.
 * Plants for which sites have been secured and main contracts placed.
 ** Plants expected to be retired from service by the end of 2013.