



Appendix D — World nuclear power reactors

The following table, published by the World Nuclear Association, lists the world's nuclear power reactors operating in 2004–06, the amount of electricity generated in 2004, reactors under construction, planned and proposed, and their uranium requirements as at 25 May 2006.

World nuclear power reactors 2004–06 and uranium requirements, as at 25 May 2006

	NUCLEAR ELECTRICITY GENERATION 2004–05		REACTORS OPERABLE May 2006		REACTORS under CONSTRUCTION May 2006		REACTORS PLANNED May 2006		REACTORS PROPOSED May 2006		URANIUM REQUIRED 2006
	billion kWh	% e 2005	No.	MWe	No.	MWe	No.	MWe	No.	MWe	tonnes U
Argentina	7.3	6.9	2	935	1	692	0	0	0	0	134
Armenia	2.2	43	1	376	0	0	0	0	1	1000	51
Belgium	44.9	56	7	5 728	0	0	0	0	0	0	1 075
Brazil	11.5	2.5	2	1 901	0	0	1	1 245	0	0	336
Bulgaria	15.6	44	4	2722	0	0	2	1 900	0	0	253
Canada	85.3	15	18	12 595	0	0	2	1 540	0	0	1 635
China	47.8	2.2	10	7 587	5	4 170	5	4 600	19	15 000	1 294
Czech Republic	26.3	31	6	3 472	0	0	0	0	2	1 900	540
Egypt	0	0	0	0	0	0	0	0	1	600	0
Finland	21.8	33	4	2 676	1	1 600	0	0	0	0	473
France	426.8	79	59	63 473	0	0	1	1 630	1	1 630	10 146
Germany	158.4	31	17	20 303	0	0	0	0	0	0	3 458
Hungary	11.2	37	4	1 755	0	0	0	0	0	0	251

India	15.0	2.8	15	2 993	8	3 638	0	0	24	13 160	1 334
Indonesia	0	0	0	0	0	0	0	0	4	4 000	0
Iran	0	0	0	0	1	915	2	1 900	3	2 850	0
Israel	0	0	0	0	0	0	0	0	1	1 200	0
Japan	273.8	29	55	47 700	1	866	12	14 782	0	0	8 169
Korea DPR (North)	0	0	0	0	1	950	1	950	0	0	0
Korea RO (South)	124.0	38	20	16 840	0	0	8	9 200	0	0	3 037
Lithuania	13.9	72	1	1 185	0	0	0	0	1	1 000	134
Mexico	10.6	5.2	2	1 310	0	0	0	0	2	2 000	256
Netherlands	3.6	3.9	1	452	0	0	0	0	0	0	112
Pakistan	1.9	2.4	2	425	1	300	0	0	2	1 200	64
Romania	5.1	8.6	1	655	1	655	0	0	3	1 995	176
Russia	133.0	16	31	21 743	4	3 600	1	925	8	9 375	3 439
Slovakia	15.6	56	6	2 472	0	0	0	0	2	840	356
Slovenia	5.2	42	1	676	0	0	0	0	0	0	144
South Africa	14.3	5.5	2	1 842	0	0	1	165	24	4 000	329
Spain	60.9	20	8	7 442	0	0	0	0	0	0	1 505

Sweden	75.0	47	10	8 938	0	0	0	0	0	0	1 435
Switzerland	25.4	32	5	3 220	0	0	0	0	0	0	575
Turkey	0	0	0	0	0	0	0	0	3	4 500	0
Ukraine	81.1	49	15	13 168	0	0	2	1 900	0	0	1 988
United Kingdom	73.7	20	23	11 852	0	0	0	0	0	0	2 158
USA	788.6	19	103	98 034	1	1 065	0	0	13	17 000	19 715
Vietnam	0	0	0	0	0	0	0	0	2	2 000	0
WORLD**	2 618.6	16	441	369 374	27	21 361	38	40 737	115	83 620	65 478
	billion kWh	% e	No.	MWe	No.	MWe	No.	MWe	No.	MWe	tonnes U
	NUCLEAR ELECTRICITY GENERATION 2004-05		REACTORS OPERATING		REACTORS BUILDING		ON ORDER or PLANNED		PROPOSED		URANIUM REQUIRED

Source World Nuclear Association, *World Nuclear Power Reactors 2004-06 and Uranium Requirements* (as at 25 May 2006), viewed 1 June 2006, <<http://www.world-nuclear.org/info/reactors.htm>>.

Notes:

Building/Construction = first concrete for reactor poured, or major refurbishment under way

Planned = Approvals and funding in place, or construction well advanced but suspended indefinitely

Proposed = clear intention but still without funding and/or approvals

TWh = Terawatt-hours (billion kilowatt-hours)

MWe = Megawatt electrical (electrical as distinct from thermal)

kWh = kilowatt-hour.

Total uranium required: 65 478 t U = 77 218 t U₃O₈

** The world total includes 6 reactors on Taiwan with a combined capacity of 4 884 MWe, which generated a total of 37.9 TWh in 2004 (accounting for 21 per cent of Taiwan's total electricity generation). Taiwan has two reactors under construction with a combined capacity of 2 600 MWe.