

Table 10 - Overview of Reactor Decommissioning Worldwide (as of July 2022)

Country	Closed Reactor	Post-Operational Stage ^(a)	Decommissioning Status					
			Warm-up (of which Defueled)	Hot-zone	Ease-off	LTE	Completed (of which Released)	Completed Share (of which Released)
U.S.	41	1	7 (7)	3	1	12	17 (6)	41% (15%)
U.K.	34	4	13 (11)	9	0	8	0	0%
Germany	33	2	8 (5)	9	9	1	4 (3) ^(b)	12% (9%)
Japan	27	0	26 (4)	0	0	0	1 (1)	4% (4%)
France	14	0	4 (1)	2	0	8	0	0%
Russia	10	1	0	0	0	9	0	0%
Sweden	7	0	3 (1)	4	0	0	0	0%
Canada	6	0	0	0	0	6 ^(c)	0	0%
Bulgaria	4	0	4	0	0	0	0	0%
Italy	4	0	3 (2)	1	0	0	0	0%
Ukraine	4	0	0	0	0	4 ^(d)	0	0%
Slovakia	3	0	1 (1)	2	0	0	0	0%
Spain	3	0	1	0	1	1	0	0%
Taiwan	3	1	2	0	0	0	0	0%
Lithuania	2	0	2 (2)	0	0	0	0	0%
South Korea	2	0	2	0	0	0	0	0%
Armenia	1	0	0	0	0	1 ^(e)	0	0%
Belgium	1	0	0	0	1	0	0	0%
India	1	0	1 (1)	0	0	0	0	0%
Kazakhstan	1	0	0	0	0	1	0	0%
Netherlands	1	0	0	0	0	1	0	0%
Pakistan	1	1	0	0	0	0	0	0%
Switzerland	1	0	1	0	0	0	0	0%
Total	204	10	78 (35)	30	12	52	22 (10)	11% (5%)

Sources: Various, compiled by WNISR, 2022

Notes:

(a) - Many recently closed reactors have not officially begun with decommissioning and are in a so-called “post-operational stage”. These are Brokdorf and Grohnde in Germany, Kursk-1 in Russia, Kuosheng-1 in Taiwan, Dungeness B-1 & -2 and Hunterston B-1 & -2 in the U.K. and Palisades in the US.

(b) - Contrary to the categorization in previous WNISR editions that counted Gundremmingen-A to be fully decommissioned, the plant should rather be placed into the “Ease-Off-Stage” of decommissioning, as work is still ongoing.

(c) - Contrary to categorization in previous WNISR editions, the Douglas Point only reached the warm-up stage in August 2022, thus as of July 2022, Canada does not count any reactor beyond LTE.

(d) - With the “New Safe Confinement” being completed at Chernobyl-4, this reactor is now categorized as LTE.

(e) - Contrary to previous WNISR editions, the Armenia/Metsamor-1 reactor is categorized as LTE.