

Table 15 · Overview of Reactor Decommissioning Worldwide (as of 1 July 2023)

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. ^(b)	41	1	5 (5)	5	2	11	17 (7)	41% (17%)
U.K.	36		21 (13)	9	0	6	0	0%
Germany	36	4	8 (5)	10	9	1	4 (3)	11% (8%)
Japan	27		26 (5)	0	0	0	1 (1)	4% (4%)
France	14		4 (1)	2	0	8	0	0%
Russia	10	1	2 (1)	0	0	7	0	0%
Sweden	7		3 (1)	4	0	0	0	0%
Canada	6		1 (1)	0	0	6	0	0%
Bulgaria	4		4	0	0	0	0	0%
Italy	4		3 (2)	1	0	0	0	0%
Taiwan	4	2	2	0	0	0	0	0%
Ukraine	4		0	0	0	4	0	0%
Slovakia	3		1 (1)	0	2	0	0	0%
Spain	3		1	0	1	1	0	0%
Belgium	3		2	0	1	0	0	0%
Lithuania	2		2 (2)	0	0	0	0	0%
South Korea	2		2	0	0	0	0	0%
Armenia	1		0	0	0	1	0	0%
India	1		1 (1)	0	0	0	0	0%
Kazakhstan	1		0	0	0	1	0	0%
Netherlands	1		0	0	0	1	0	0%
Pakistan	1	1	0	0	0	0	0	0%
Switzerland	1		1	0	0	0	0	0%
Total	212	9	89 (38)	31	15	46	22 (11)	10% (5%)

Sources: Various, compiled by WNISR, 2023

Notes:

(a) - Many recently closed reactors have not officially begun with decommissioning and are in a so-called “post-operational stage”. These are Brokdorf Emsland, Grohnde and Isar-2 in Germany, Kuosheng-1 and -2 in Taiwan, Kursk-1 in Russia, Kanupp-1 in Pakistan, and Palisades in the U.S.

(b) Previous WNISR editions had classified Vermont Yankee in the U.S. as being in the warm-up-stage when in fact hot-zone tasks were ongoing. The reactor has since moved to the ease-off stage.