

Table 1: Main data for key Chinese PWRs

Design	CPR-1000	ACPR1000	EPR	CNP-600	ACP-600	AP1000	CAP1400	ACC1000	European Utility Requirements (as reference)
Vendor	CGN	CGN	AREVA	CNNC	CNNC	Westinghouse	SNPTC	CNNC/CGN	-
Number of loops	three	three	four	two	two	two	two	three	-
Electrical output (MWe)	1085	1150	1700	650	605	1250	1530	1150	Improved PWR upper limit 1350
Containment	single	double	double	single	double	double	double	double	-
Design life (years)	40 (+20)	60	60	40	60	60	60	60	60
Fuel cycle length (months)	18	18-24	18	12	18-24	18	18	18-24	24
Capacity factor (%)	≥90	92	≥92	~82	≥90	93	93		87
Core damage frequency (core/year)	1×10^{-5}	1×10^{-5}	7.75×10^{-7}	$<1 \times 10^{-4}$	$<1 \times 10^{-5}$	$\leq 5.1 \times 10^{-7}$	1×10^{-6}		1×10^{-5}
Large release frequency (core/year)	1×10^{-6}	1×10^{-6}	8.1×10^{-8}	$<1 \times 10^{-5}$	$<1 \times 10^{-6}$	$\leq 5.9 \times 10^{-8}$	1×10^{-7}		1×10^{-6}
Seismic design criteria (g)	0.2	0.3	0.25			0.3	0.3	0.3	0.25
First unit	Ling Ao 1	Yangjiang 5	Taishan 1	Qinshan II-1	TBC	Sanmen 1	Shidaowan	Fangchenggang 3&4 (CGN)/ Fujing 5&6 (CNNC)	
Status	Operation	Construction	Construction	Operation	Design	Construction	Design	Design	

Source: WNA, CGN, SNPTC