

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
LOK SABHA
UNSTARRED QUESTION NO-4498
ANSWERED ON 20/08/2025

OPERATIONAL NUCLEAR POWER PLANTS

4498. SHRI SAUMITRA KHAN
SHRI SANATAN PANDEY

Will the PRIME MINISTER be pleased to state:-

- (a) the number of nuclear power plants operational in various States/locations in the country; and
- (b) whether the Government has adopted any new technology/policy to enhance its functioning and if so, the details thereof?

ANSWER

THE MINISTER OF STATE FOR PERSONNEL, PUBLIC GRIEVANCES & PENSIONS
AND PRIME MINISTER'S OFFICE (DR. JITENDRA SINGH)

(a) The details are given below.

State	Location	Unit	Capacity (MW)
Maharashtra	Tarapur	TAPS-1	160
		TAPS-2	160
		TAPS-3	540
		TAPS-4	540
Rajasthan	Rawatbhata	RAPS-1*	100
		RAPS-2	200
		RAPS-3	220
		RAPS-4	220
		RAPS-5	220
		RAPS-6	220
		RAPS-7	700
Tamil Nadu	Kalpakkam	MAPS-1	220
		MAPS-2	220
	Kudankulam	KKNPP-1	1000
		KKNPP-2	1000
Uttar Pradesh	Narora	NAPS-1	220
		NAPS-2	220
Gujarat	Kakrapar	KAPS-1	220
		KAPS-2	220
		KAPS-3	700
		KAPS-4	700
Karnataka	Kaiga	KGS-1	220
		KGS-2	220
		KGS-3	220
		KGS-4	220

‘*’ RAPS-1 (100 MW) is under extended shutdown.

(b) Government has set policy directive to launch Nuclear Energy Mission in view of the country's energy transition efforts. This mission will focus on Research and Development of new reactors design & technologies; as-well-as large scale deployment of existing /established technology/ design. The same will necessitate participation of private investors and private sector, including manufacturing industries. In FY2024-25, as part of Budget Announcement, policy directive has been set to partner with the private sector for setting up Bharat Small Reactor (BSR), and in pursuance of the same, NPCIL has floated Request-for-proposal to private industries to finance and build small-sized 220 MW-PHWR based NPPs as captive plants for electricity production. BSRs are proposed to be commissioned and operated by NPCIL, but set up with private capital. This is majorly to target a wide array of industries viz., Minerals & Metals, Petrochemical etc., which will help in decarbonisation on Industry Sector. Further, with inclusion of private investment, it is expected that as the plan/roadmap for rapid scale up of nuclear sector in the country is evolved at strategy level, it would send a strong policy signal to the industry (public & private) to participate and plan for capacity/ infrastructure expansion for nuclear related projects and assure them continuity of business, so that they can remain invested for long-term. This is also expected to boost 'investor' confidence to make informed decisions in the nuclear and even enable fossil sector businesses to divest into nuclear business, in terms of not only financial investment but also re-train & redeploy experienced manpower from the fossil sector. Making Nuclear Power Projects eligible for Climate Finance will be a big boost, to make progress in this mission.
