

PARLIAMENT QUESTION: NUCLEAR ENERGY MISSION

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Keeping in view the energy security, clean energy generation and net-zero targets of the country, the Government has announced an ambitious Nuclear Energy Mission for Viksit Bharat with a target of reaching a nuclear power capacity of 100 GW by 2047. The Government has also enacted the SHANTI Act to enable a wider participation of both public and private sectors. The aforementioned target envisages a significant contribution from indigenous PHWR technology based nuclear power plants. Further, the Government has announced measures for enabling R&D in SMRs and new advanced technologies. Towards the expansion of Fast Breeder Reactors, Government of India has approved the pre-project activities of 2 x 500 MW FBR 1 & 2 at Kalpakkam, Tamil Nadu.

In the last three years, no new nuclear power projects were sanctioned. However, major achievements in the nuclear power sector include;

- Capacity addition of 2100 MW with commercial operation of KAPP-3&4 (2 X 700 MW) and RAPP-7 (700 MW).
 - Laying of foundation stone by Hon'ble Prime Minister for Units-1 to 4 of the Mahi Banswara Rajasthan Atomic Power Project in Banswara, Rajasthan. The project is being implemented by subsidiary of NPCIL - ASHVINI (a JV of NPCIL & NTPC).
 - TAPS- 1 & 2, the world's oldest operating nuclear reactors, resumed operation after successful completion of major refurbishment works.
- Construction of Kaiga Units-5&6 in the state of Karnataka commenced construction with the 'First Pour of Concrete' (FPC) after obtaining requisite statutory and regulatory clearances.
 - PFBR attained criticality on 06th April, 2026.

The Government has enacted the SHANTI Act to enable wider participation in nuclear power, both by public and private sector. Once the rules are framed under SHANTI Act, 2025, it is open for the states, industries and research institutions to collaborate with the Government.

This information was given by Union Minister of State for Prime Minister's office and Personnel, Public Grievances and Pensions, Atomic Energy and Space, Dr. Jitendra Singh, in a written reply in the Lok Sabha today.

NKR/AK/NM

