GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
LOK SABHA
UNSTARRED QUESTION NO-841
ANSWERED ON 04/02/2026

NUCLEAR POWER GENERATION

841. SHRI MANOJ TIWARI
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Will the PRIME MINISTER be pleased to state:-

(a) the total nuclear power generation achieved during the last two years;
(b) the present status of ongoing and approved nuclear power projects and additional Pressurized Heavy Water Reactor (PHWR) units approved for pre-project activities;
(c) the details of progress made towards achieving the targeted nuclear capacity planned up till 2032 and beyond;
(d) whether any measures are being taken to ensure timely project execution, grid integration and enhanced plant availability across nuclear power stations and if so, the details thereof; and
(e) whether the Government is planning for expansion of Tarapur Power Plant in Palghar District and upgrading older units with future plans supporting country's overall nuclear expansion goals 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) Nuclear power generation in the last two years 2023-24 and 2024-25 was 47971 Million Units and 56681 Million Units respectively.

(b) The details are as under:

Location	**Project**	**Capacity (MW)**	**Physical Progress**
Projects Under Construction / Commissioning			
Rajasthan	RAPP- 8	1 X 700	98.60
Kudankulam, Tamilnadu	KKNPP-3&4	2 X 1000	80.51
	KKNPP-5&6	2 X 1000	41.56
Gorakhpur, Haryana	GHAVP-1&2	2 X 700	Civil works in progress

Location	Project	Capacity (MW)	Physical Progress
Projects Under Pre-project Activities			
Kaiga, Karnataka	Kaiga-5&6	2 X 700	Pre-project activities are in progress at different stages
Gorakhpur, Haryana	GHAVP– 3&4	2 X 700	
Chutka, Madhya Pradesh	Chutka-1&2	2 X 700	
Mahi Banswara, Rajasthan	Mahi Banswara-1&2*	2 X 700	
	Mahi Banswara-3&4*	2 X 700	

* Mahi Banswara-1&2 and Mahi Banswara-3&4 being implemented by ASHVINI, a Joint Venture of NPCIL and NTPC.

Pre-project activities are in full swing at different stages in different projects. They are nearing completion in Kaiga 5&6.

Further, BHAVINI is currently commissioning a 500 MWe Prototype Fast Breeder Reactor (PFBR) project at Kalpakkam, Tamil Nadu. Government has accorded approval to carry out pre-project activities for 2 x 500 MWe twin unit of FBR 1&2 project at Kalpakkam, Tamil Nadu. On attaining first criticality of PFBR, Government will be approached for financial sanction of FBR 1 & 2 projects.

(c) In the last two years a capacity of 2100 MW has been added by completion of KAPP 3&4 (2X700 MW) and RAPP-7 (700 MW) taking the installed capacity to 8780 MW (excluding RAPS-1), towards achieving a capacity of about 22 GW by 2032.

(d) Yes. Constant monitoring of progress of project activities at multiple levels, timely identification of constraints & making necessary mid-course corrections, frequent meetings with vendors/ contractors and re-sequencing of construction activities to the extent possible, are being taken to ensure the timely implementation of the projects. As regards ensuring enhanced plant availability a programme of predictive and preventive maintenance of equipment and components based on the health assessment using latest technology & tools and In-Service-Inspections is in place in operating stations of NPCIL. NPCIL's operation and maintenance practices have ensured that its reactors record long continuous operation periods. NPCIL's reactors have so far recorded continuous operation more than a year 54 times.

(e) Yes. Two Small Modular Reactors (SMR) viz. BSMR -200 and SMR -55 are planned to be set up at Tarapur, Maharashtra site. In addition, Tarapur Atomic Power Station's Units 1&2 (TAPS 1&2 – 2X160 MW), which commenced operation in 1969 and are the oldest reactors in the world, are presently undergoing refurbishment to extend their life further and expected to generate electricity soon.

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