

NPCIL's Indigenous 700 MW PHWR at Rawatbhata reaches full power

RAPP-8 commissioning activities progress alongside expansion of national nuclear capacity

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The Unit-7 (700 MW) of Rajasthan Atomic Power Project-7&8 (RAPP-7&8), comprising 2 x 700 MW units at Rawatbhata, Rajasthan, achieved its rated power operation today at 05:15 hrs after successfully complying with all requisite clearances, including those stipulated by the Atomic Energy Regulatory Board (AERB).

RAPS-7 is the third reactor of the 700 MW series out of sixteen indigenous Pressurised Heavy Water Reactors (PHWRs) being established in the country. The 700 MW PHWRs incorporate advanced safety features and are among the safest nuclear reactor designs globally.



The successful achievement of rated power by RAPP-7 reaffirms the robustness of NPCIL's indigenous 700 MW PHWR design and highlights the strong capabilities of NPCIL and Indian industry in executing complex nuclear power projects. Meanwhile, the Light Water Commissioning milestone of RAPP-8, following completion of hot conditioning, is currently in progress.

The indigenous 700 MW PHWR fleet will form a significant component of the targeted 100 GW nuclear power capacity by 2047 under the Government of India's Nuclear Energy Mission. A typical 700 MW reactor generates approximately 5.2 billion units of clean electricity annually at 85% Plant Load Factor, helping avert nearly 4.5 million tonnes of CO₂ equivalent emissions each year.

At present, NPCIL operates 24 reactors (excluding RAPS-1) with a total installed capacity of 8,780 MW. In addition, nuclear power projects aggregating 13,100 MW are under various stages of implementation.

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