

15th

National Conference on **NUCLEAR ENERGY: LEAP FORWARD**

Saturday, 28th November, 2026

Seminar Hall, Nabhikiya Urja Bhavan,
NPCIL, Anushakti Nagar, Mumbai

Organized by



INDIA
ENERGY
FORUM

and



न्यूक्लियर पावर कॉर्पोरेशन ऑफ इंडिया लिमिटेड
Nuclear Power Corporation of India Limited

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About the Conference

India is pursuing nuclear science and technology for power generation and for non-power applications such as health care (diagnostics, therapy and sterilisation), food irradiation, agriculture, research, etc. Currently, 25 Nuclear Reactors of various unit sizes are contributing about 9 GW of power generation capacity. Three PHWRs of 700 MW rating have been connected to the grid, and another is scheduled to be commissioned soon. Several 700 MW PHWRs are under construction and in the planning stage. With the first criticality of the 500 MW Prototype Fast Breeder Reactor, fast reactor technology has cleared a significant milestone.

The SHANTI Act, enacted in Dec 2025, enables the private sector to own and operate nuclear power plants based on a technology of their choice and empowers them to conduct research and development. This is expected to ramp up nuclear power capacity addition through private investment and also trigger additional public investment.

Units of the Department of Atomic Energy (DAE) have developed technologies for setting up nuclear power reactors and fuel cycle facilities, nurtured expert manpower at all levels and created a large industry base to manufacture equipment for setting up nuclear power plants. To reach the 100 GW target by 2047, the capability base needs a significant expansion. The Project Developers, Equipment Manufacturers, Fabricators, Input Material Suppliers, Academic Institutions, Financial Institutions, etc., all need to make their respective contributions to achieve this goal. DAE is already framing rules and regulations under the SHANTI Act in consultation with all stakeholders.

The Nuclear Conclave, being organised jointly by the India Energy Forum and the Nuclear Power Corporation of India Ltd., will bring together the Developers, Equipment Manufacturers, Supply Chain Partners and units of DAE (NPCIL, AERB, BARC, NFC, etc.) for discussing and recommending the way forward to achieve the projected target for extensive use of Nuclear Energy as a base load source.

Broad Programme		
09:00 – 09:30	Registration & Initial Networking	All Participants
9.30 – 10.40	Inaugural Session	Chief Guest: Dr A K Mohanty, Secretary, DAE and Chairman, AEC
10:40 – 11:10	Tea Break	
11:10 – 11:30	Theme Talk – Challenges and Opportunities in Nuclear Power Sector	Shri Rajesh V, CMD, NPCIL
11:30 – 11:50	Regulatory Aspects – Present and Evolving	Shri A K Balasubrahmanian, Chairman, AERB
11:50 – 13:00	Panel Discussion: Newcomer Focus for Technology Choices	Moderated by: Dir(T-LWR), NPCIL
13:00 – 14:00	Lunch Break	
14:00 – 15:45	Panel Discussion: Industry Partners Focus for Supply Chain Management	Moderated by: Dir(P), NPCIL
15:45 – 16:00	Tea Break	
16:00 – 17:00	- Emerging Technologies & Future Prospects - Government Facilitation & Expectations	Vivek Bhasin, Director, BARC JS (ER & Power), DAE
17:00 – 17:30	Conference Round-Up	Dr. R B Grover - IEF Shri Prateek Agrawal - NPCIL

About the Organisers

India Energy Forum is an independent, non-profit research organization that represents the energy sector as a whole. It was set up in February 2001 and formally inaugurated in January 2002. The mission of IEF is to help evolve a National Energy Policy aimed at the development of a sustainable and competitive energy sector in India. It champions the cause of TOTAL ENERGY – all forms of energy ranging from Coal, Power – Thermal & Hydro, Oil & Gas, Nuclear and Renewable. This feature of its functioning gives it the distinctive advantage of taking an integrated look at the energy scene. IEF did frame an Energy Policy document which became an input to the Planning Commission's Integrated Energy Policy brought out in August 2006. Its membership includes all the key players of the energy sector in India.

IEF organizes energy debates, webinars and such conferences covering all sectors of energy involving all stakeholders as well as policymakers.

Nuclear Power Corporation of India Limited (NPCIL), a Public Sector Enterprise under the administrative control of the Department of Atomic Energy (DAE), Government of India, is the country's premier nuclear power utility responsible for the design, construction, commissioning, and operation of nuclear power plants besides development of advance technologies in the sector.

NPCIL currently operates 24 commercial nuclear power reactors with a total installed capacity of 8,780 MW, comprising BWRs, PHWRs, and PWRs/VVER reactors. The corporation is spearheading an ambitious nuclear expansion programme, with multiple 700 MW indigenous PHWRs and 1000 MW PWRs/VVER units under various stages of implementation. With a strategic vision to strengthen India's clean energy future, NPCIL aims to enhance the nation's nuclear power capacity to about 22 GW by 2032, alongside plans for deployment of Bharat Small Reactors (BSRs) for captive usage strengthening decarbonization. NPCIL is also into the development of Bharat Small Modular Reactor (BSMR) technology along with BARC. The corporation aims to reach an installed nuclear power capacity of about 54 GW by 2047 contributing to India's long-term energy security and sustainability goals and the national target of 100 GW of nuclear power capacity by 2047.

Conveners of the Conference		For Conference enquiries and prior registration, please contact
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