



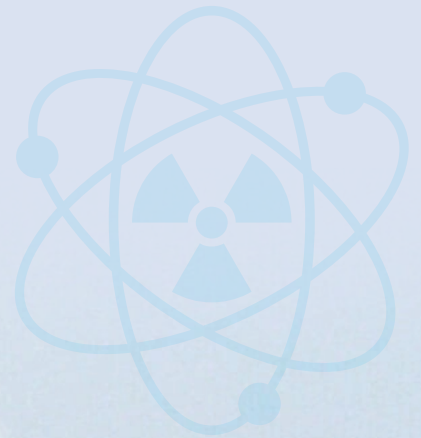
न्यूक्लियर पावर कॉर्पोरेशन ऑफ इंडिया लिमिटेड  
Nuclear Power Corporation of India Limited

INDIA  
**ENERGY**  
FORUM

# 14<sup>th</sup> NUCLEAR ENERGY CONCLAVE

Tuesday, 11<sup>th</sup> March, 2025

DAE Convention Centre, Anushakti Nagar, Mumbai



**THEME**

**NUCLEAR POWER:  
PATHWAYS TO RAPID GROWTH**

Supported by



# INTRODUCTION

With India having declared its intent to achieve Net Zero 'C' emissions by 2070, the use of non-fossil fuel technologies is getting enhanced focus. Nuclear Energy is an important option. It provides baseload power and is economically competitive. It can make a significant contribution toward increasing per capita energy consumption. As such, nuclear-installed capacity is set to see a manifold increase in India based on plans drawn by the Department of Atomic Energy (DAE). Considering a large expansion of the nuclear-installed capacity base, plans include adding several 700 MW PHWRs. To meet the needs of the industry for captive power generation, DAE plans to set up an evolutionary variant of its 220 MW PHWR as Bharat Small Reactor and has already invited requests for proposals from the industry. The Prototype Fast Breeder Reactor coming up at Kalpakkam is also progressing. In addition to two reactors already operating at Kudankulam, four more Light Water Reactors, each 1000 MW, are coming up. All these will result in tremendous growth of nuclear-installed capacity in India and will contribute to achieving lower emissions from the electricity sector.

Keeping this in mind, India Energy Forum (IEF) jointly with the Nuclear Power Corporation of India (NPCIL) with the support of Department of Atomic Energy (DAE) is organizing its **14th Nuclear Energy Conclave** on the theme “**Nuclear Power - Pathways to Rapid Growth**” at the DAE Convention Centre, Anushakti Nagar, Mumbai on **11th March 2025**.

We intend to debate the various pathways that can contribute to the rapid growth of nuclear power. The recent initiative of NPCIL to enable private industry to set up the Bharat Small Reactors will enable greater participation of the Indian Industry – power producers, equipment manufacturers and material suppliers.

# PARTICIPATION

**Dr. A.K. Mohanty**, Chairman, AEC and Secretary, DAE will be the Chief Guest and deliver a keynote address on the theme of the Conclave. President IEF, **Shri R.V. Shahi** will deliver Presidential Address and **Dr. R.B. Grover** will set the context of the Conclave. CMD, NPCIL will share the future Power Programmes and expectations from the industry. CMDs / CEOs, Board Members of NITI Aayog, NPCIL, NTPC, TATA Power, ADANI Power, Reliance, BHEL, L&T, Godrej & Boyce, Walchandnagar Industries, Grid India, IGCAR, Bhavini etc. along with leaders from the manufacturing Industry are being invited to speak on their plans to meet DAE expectations and help needed by them. Foreign players like EDF, Rosatom and Nuclear Trade Attaches of some Foreign Missions will also be invited. We intend to involve materials providers also.

**Programme model will be Presentations, Panel Discussions and Interactive Sessions.**

# 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.

**Shri R.V. Shahi**, Former Secretary of the Ministry of Power, Government of India is the President of the IEF and **Dr R.B. Grover**, Member, AEC and former Principal Adviser of DAE, is the Chairman of its Nuclear Energy Group.

**Nuclear Power Corporation of India Limited (NPCIL)** is a Public Sector Enterprise under the administrative control of the **Department of Atomic Energy (DAE)**, Government of India. NPCIL is responsible for the design, construction, commissioning and operation of nuclear power reactors. NPCIL is presently operating 24 commercial nuclear power reactors with an installed capacity of 8180 MW. The reactor fleet comprises two Boiling Water Reactors (BWRs), 20 Pressurised Heavy Water Reactors (PHWRs) including one 100 MW PHWR at Rajasthan which is owned by DAE, Government of India and two VVER reactors of 1000 MW capacity each. Construction of many more 700 MW PHWRs, four 1000 MW VVERs, etc. are in progress that will raise the power generation capacity to 22GW by 2032. In addition, NPCIL has plans to construct several Bharat Small Reactors (about 220 MW). **Shri B.C. Pathak** is the current CMD of NPCIL.

## REGISTRATION

India Energy Forum and NPCIL invite prospective participants to the **14th Nuclear Energy Conclave** to be held on **11th March 2025** at the DAE Convention Centre, Anushakti Nagar, Mumbai. No delegate registration fee will be charged. However, Prior registration is must and participation will be by invitation only.

## ADVERTISEMENT OPPORTUNITIES

A Souvenir of abstracts of papers to be presented in the Conclave along with some useful information and profile of speakers will be published in order to present a comprehensive profile of the Indian nuclear industry. It will also contain a few articles on relevant issues and will be widely circulated. Some pages of the Compendium are earmarked for advertisements. The advertisement tariff and other details are:

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**GST (18%) will be charged extra on the Sponsorship/Advertisement and Delegate Fee.**

# PROGRAMME

## 9.00 am – 9.30 am: Assembly and Networking Tea

### 9:30 am – 10.45 am: Inaugural Session

- Welcome Address by **Shri S.M. Mahajan**, Convenor, Nuclear Energy Group, IEF and Former ED-BHEL
- Setting the context by **Dr. R.B. Grover, Chairman**, Nuclear Energy Group, IEF and Member, AEC
- Presidential Address by **Shri R.V. Shahi**, President IEF and Former Secretary, Ministry of Power
- Address by **Shri B.C. Pathak**, CMD, NPCIL on progress in implementing 700 MW PHWR programme
- Keynote Address by Chief Guest **Dr. A.K. Mohanty**, Secretary Department of Atomic Energy, and Chairman AEC
- Vote of Thanks by **Shri B.V.S. Sekhar**, ED (CP & CC), NPCIL

## 10:45 am – 11:15 am: Tea & Interaction

### 11:15 am – 1:00 pm: Invited Thematic Presentations

**Session Chair: Shri Vivek Bhasin**, Director, BARC

- **Shri B.C. Pathak**, CMD NPCIL, / **Director**, NPCIL- implementation of BSR programme (30 minutes)
- **Representative of Manufacturing Industry** - views on BSRs (20 Minutes)
- **Shri K.T. Shenoy**, Director, Chemical Engg. Group, BARC, Using nuclear reactors for low-carbon hydrogen generation. (20 Minutes)
- **Professor R. Srikant**, IAS - Possible Sites for Bharat Small Reactors (20 mts)

## 1:00 pm – 1.45 pm: Lunch

### 1:45 pm – 4:00 pm: Panel Discussion: Manufacturing Industry – Implementing 700 MW PHWR and BSR

#### Programme: Growth plans and Challenges

**Session Chair: Shri N.K. Mitharwal**, Dir. (Projects), NPCIL:

Addresses (10 mts each) by Bharat Heavy Electricals; Godrej & Boyce; Larsen & Toubro; Walchandnagar Industries; MTAR; NUVIA India : AWPM etc

## 4:00 pm – 4:15 pm: Tea

### 4:15 pm – 5:00 pm: Panel discussion on comparison of economics of SMRs, PHWRs and LWRs

- **Session Chair: Shri S.A. Bhardwaj**, former Chairman AERB
- **Panelists** from NPCIL; Rosatom; EDF; Westinghouse; Holtec, USA etc

## 5.00 pm – 5.30 pm: Closing Session

Summing up and recommendations, President, IEF/ Chairman Nuclear Energy Group, IEF

Vote of Thanks by **Shri S.M. Mahajan**, IEF and **Shri B.V.S. Sekhar**, NPCIL

## Conveners of the Conclave

### Shri S.M. Mahajan

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## For Conclave enquiries and prior registration, please contact

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