

# **Building India With Nuclear Power**

**Post SHANTI Bill 2025**

**100 GWe of Nuclear Power by 2047**

## **India Nuclear Energy Forum 2026**

**May/June 2026**

**IIT-Bombay**

**Organised by**



Dept of Energy Science & Engineering

**IIT Bombay**

**India Energy Network**

# PREAMBLE

The Indian government's decision to pass the **SHANTI (Sustainable Harnessing and Advancement of Nuclear Energy for Transforming India) Bill** has generated significant enthusiasm within the Indian and global nuclear energy community. The ambitious goal of achieving **100 GW of nuclear power capacity by 2047** in India will require an estimated investment of **USD 210–250 billion**.

To put this into perspective, the United States, which began commercial nuclear power generation in the mid-1950s, has developed approximately **97 GW of capacity across 93 nuclear power plants**. This comparison highlights the scale of preparation and coordinated effort required to ramp up India's nuclear capacity to the levels envisioned by the Indian government.

Achieving the target of **100 GW of nuclear power** will require the creation of a strong, cohesive Indian nuclear ecosystem. Such an ecosystem must include all stakeholders from India and overseas, including:

- Various government ministries
- Nuclear regulators and other compliance bodies
- Existing and prospective nuclear power operators
- Nuclear technology providers (Gen-IV reactors, SMRs, MMRs, etc.)
- Nuclear fuel supply chain participants
- EPC contractors and system integrators
- Manufacturing companies
- Quality assurance and certification bodies
- Component, system, and equipment suppliers
- Engineering consultants
- Academic and R&D institutions
- Skill development and training providers
- ...and others across the value chain

**India Nuclear Energy Forum 2026** aims to bring together all these stakeholders and initiate the formation of a robust nuclear energy ecosystem in India. The Forum will **feature symposia, exhibitions, roundtable discussions, panel sessions, and keynote lectures.**

The event will focus on the opportunities emerging after the SHANTI Bill, examine the challenges associated with its implementation, and deliberate on strategies to address these challenges to ensure the successful realization of India's nuclear power vision.

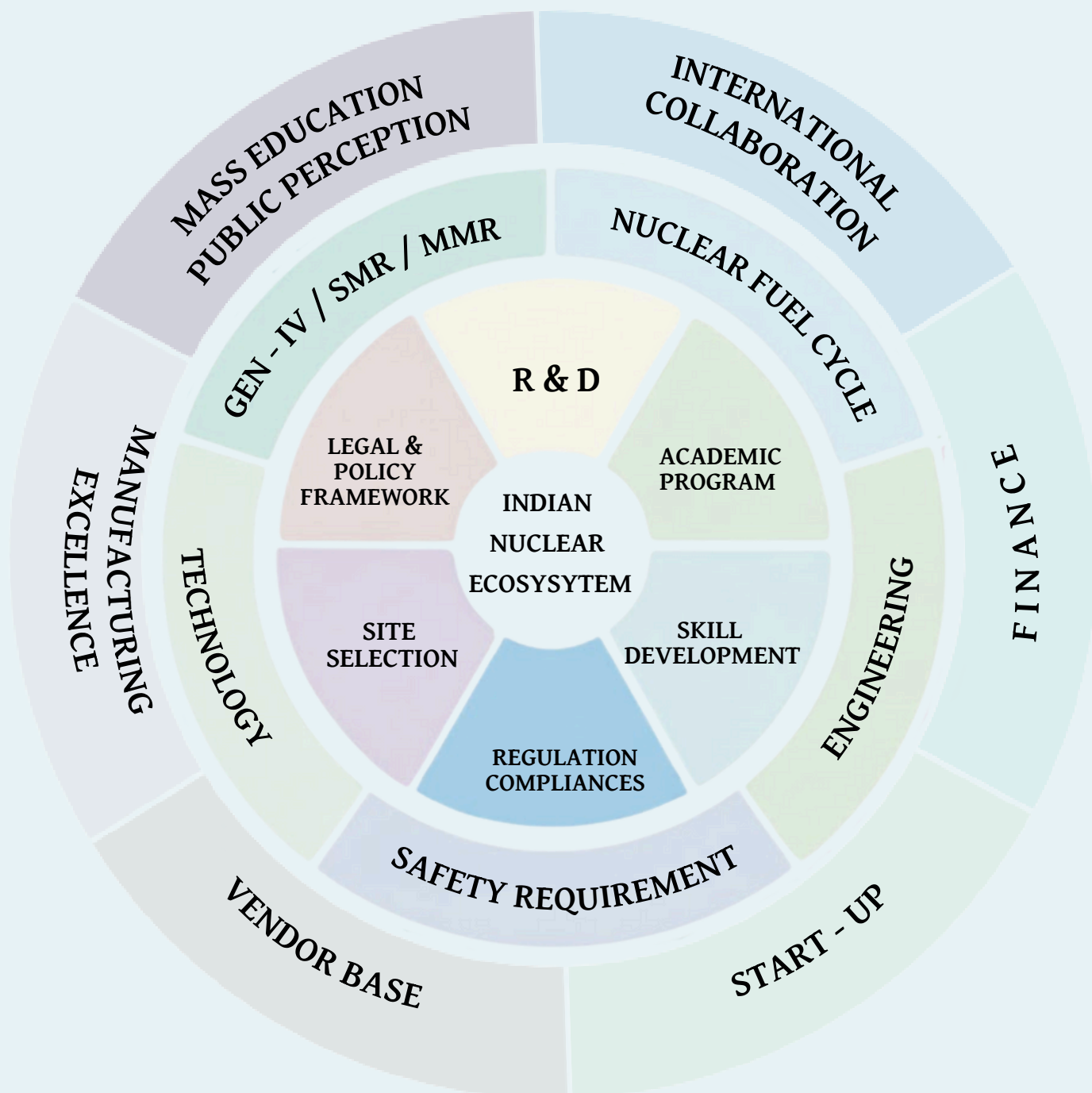
- **Capacity development** is one of the key challenges. Manpower with needed technical background and skills has to be developed in the scale needed. There is a need to develop **academic programs** and **skill development programs** to meet the needs of nuclear power sector.
- There is a need to encourage **R&D** and **innovation** in private sector and academia in nuclear energy area. (Such initiatives have contributed immensely to the defense sector and there are hundreds of start-ups involved in defense sector).
- There is a need to enable and foster **international collaboration** in nuclear energy area.
- There is a need to create a **robust nuclear ecosystem** in India.

## Who will attend Symposium?

- Technology Companies (Including Startups, NPP OEMs, SMR, & MNCs)
- Providers of Structures, Systems and Components (SSCs) & Equipment to Nuclear Power Sector including MSMEs
- Engineering & consultancy companies, service providers, R&D and QA professionals
- EPC Contractors
- Manufacturing companies
- Government & Regulatory Agencies

Symposium covers multiple themes of importance **to create a robust nuclear ecosystem in India**. Symposium session will be on themes as below.

- Nuclear power plant technologies
- Capacity building
- EPCs/ System Integrators / Service providers / Manufacturers
- R&D / Innovation / start up ecosystem
- Government regulatory, and legal issues.
- International collaboration.



## Patrons

- Dr Anil Kakodkar (Former Chairman, Atomic Energy Commission, Govt of India)
- Prof Shireesh Kedare (Director IIT Bombay)

## Convenors

- Prof Venkatasailanathan Ramadesigan (IIT Bombay)
- Prof Suneet Singh (IIT Bombay)
- Dr Shamasundar S (ProSIM R&D Pvt Ltd, India Energy Network)

## Organising Committee

- Dr. Arun Kumar Nayak (Former Head, NCPW, Department of Atomic Energy)
- Mr. Kailash Agarwal (Former Director, NRG-BARC & Former Specialist, IAEA)
- Dr. Nagaraja R (CMD, Power R&D Corporation, Bengaluru; India Energy Network)
- Mr. Rama Mohan N (Former Executive Director, NPCIL)
- Mr. Thomas Mathew (Former Executive Director, NPCIL)
- Mr. Umesh Chandra (India Energy Network)

# Advisory Committee

- Mr Agarwal K U (Executive Director, TENEX India; Joint Secretary, Indian Nuclear Society)
- Dr Alok Mishra (MD, Westinghouse, India) (to be confirmed)
- Mr Arnaud Lefevre (CEO, Dynatom, Switzerland)
- Mr Ashish Tandon (MD, Assystem India) (to be confirmed)
- Dr Kalirajan S (CMD, EDF, India)
- Dr Kallol Roy (Visiting Professor, IIT Madras; Former CMD, BHAVINI, Dept. of Atomic Energy)
- Mr Mittal G D (Vice President, Indian Nuclear Society)
- Mr Navnit Nair (MD, Framatome India)
- Dr Nawal Prinja (Former Technical Director, JACOBS)
- Dr Nitendra Singh (IYNS Research Foundation)
- Mr Ranjay Sharan (Former Director – Projects, NPCIL)
- Mr Ujjwal Bhattacharya (CMD, STEAG India; Former Director – Projects, NTPC)
- Dr Venkata Ramana B (Former Director, IGCAR, Dept. of Atomic Energy)
- Mr Vijay Joshi (Director, Rosatom India) (to be confirmed)

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