

## Summary of the Theme Meeting

A Theme Meeting on “ National Target of 100 GWe Nuclear Energy by 2047 “ was organised by Indian Nuclear Society on 18 and 19 February, 2026 in Mumbai for professionals working in the Nuclear Industry from the government and private sectors to share knowledge and experience with domain experts on setting up Nuclear Power stations in India especially after the push given by the Government of India by way of the Nuclear Energy Mission announced in the budget session of 2025 and the Shanti Act of December, 2025. The Meeting was held in Hotel Fortune Exotica, Vashi, Navi Mumbai.

A team of 10 senior experts on Nuclear Power Plant business from DAE and private industry participated in the invited talks. Around 35 professionals from the industries participated in the theme meeting. Around 10 members of INS executive committee and staff also participated and helped in organising the event.

Shri KU Agarwal, Convenor welcomed all participants in the Theme Meeting. This was followed by remarks of INS President Prof VK Manchanda. Shri Bhuwan Chandra Pathak, Chairman NPCIL was Chief Guest inaugurated the event and delivered the Inaugural address on Relevance of the theme of the meeting, “National Target of 100 GWe Nuclear Energy by 2047” and role of NPCIL and the government sector in this mission. Dr D Datta, the Co-convenor delivered the Vote of Thanks.

### **Theme Meeting Programme**

The various topics & speakers for the meeting were:

<b>LN</b>	<b>Topic</b>	<b>Speaker</b>
<b>Day1: 18 February,2026      Session 1( 10:30 – 13:00)      Coordinator: Shri GD Mittal, VP, INS</b>		
1	The legislative framework for nuclear energy in India	Dr RB Grover, Member, AEC
2	Indian Nuclear Power Programme - Journey So Far	Shri Mukesh Singhal, Former CMD(in-charge), NPCIL
3	Nuclear Reactor Technology - Relentless Commitment to Quality, Reliability and Safety	Shri Sameer Hajela, ED(RSA), NPCIL
<b>Day1: 18 February,2026      Session 2( 14:45 – 16:45)      Coordinator: Shri AK Sinha, EC, INS</b>		
4	Operational Priorities and Challenges involved in NPPs	Shri Sanjay Mulkalwar, Former Site Director, TAPS
5	Overview of NPP Project Management	Shri Ranjay Sharan, President(Nuclear), Reliance Industries Ltd.
<b>Day1: 18 February,2026      Session 3( 16:45 – 17:25)      Coordinator: Shri KU Agrawal, JS, INS</b>		
Interactive Session on Concerns and Challenges of the Industry		

<b>Day2: 19 February, 2026 Session 4( 9:30 – 12:30)</b>		<b>Coordinator: Dr Debabrata Datta, EC, INS</b>
<b>LN</b>	<b>Topic</b>	<b>Speaker</b>
6	Nuclear Fuel Cycle	Shri S.A. Bhardwaj, Former Chairman, AERB Former CMD(in-charge), NPCIL
7	Nuclear Power Expansion and the role of PSUs and Private Industry	Shri R Raghavan, VP & Head, Power Business, TCE
8	Role of Small Reactors and SMRs	Dr A.K. Nayak, Former Head, NCPW, DAE
<b>Day2: 19 February, 2026 Session 5( 14:30 – 16:30)</b>		<b>Coordinator: Dr VK Manchanda, President, INS</b>
9	Siting of NPPs including SMRs	Shri Arvind Srivastava Ex-AD(Civil), NPCIL
10	Regulatory Framework and Safety of NPPs	Dr D.K. Shukla, Former Chairman, AERB
<b>Day1: 19 February,2026 Session 3( 16:45 – 17:25)</b>		<b>Coordinator: Dr A. Rama Rao, EC, INS</b>
<b>PANEL DISCUSSION:</b> Dr RB Grover, Member AEC , Chair Shri SA Bhardwaj, Former Chairman, AERB Dr DK Shukla, Former Chairman, AERB Shri R Sharan, President(Nuclear), RIL Shri R Raghavan, VP & Head, Power Business, TCE Shri S Mujumdar, SVP, Kirloskar Oil Engines		

### **Interactive Session**

In addition, at the end of the lectures on 18<sup>th</sup> February we had an Interactive session on “Concerns and challenges of the Industry” where keynote address was given by Dr Anil Parab, Whole-time Director and Sr Executive Vice President(Heavy Engineering), L& T. The session was moderated by Shri KU Agrawal, Convenor. It emerged from views of Dr Parab and various other members of the private industry that the Nuclear Energy Mission 2025 and the Shanti Act has given a keen interest among the stake holders, especially power producing companies and vendors of Nuclear power plant accessories. However, it will take some time for getting the results to be seen on ground.

### **Panel Discussion**

On 19<sup>th</sup> February after the lectures there was a Panel discussion on “Aspirations and Expectations of Indian Industry” where participants were Dr RB Grover (Panel Chair), Shri SA Bhardwaj, Shri R Sharan, Shri Raghavan and Dr DK Shukla. The session was moderated by Dr A Rama Rao, INS EC Member. The Concluding Remarks of the Panel Chair was that though the mission for 100 GWe Nuclear Energy is in place and the Government sector is ready with its plan and going ahead with its plan of capacity expansion, it will take some time for the private sector to come up. To make up such a large capacity, Large Reactors will be required of various technologies to make fast and cost effective. SMR technology is in nascent state of development.

## Conclusion

The Theme Meeting on “ National Target of 100 GWe Nuclear Energy by 2047 “ was organised by Indian Nuclear Society in Navi Mumbai on 18 and 19 February, 2026. It was well attended by participants working and aspiring to work in Nuclear Power Industry from Government as well as private sector. The event was inaugurated by the Chairman, NPCIL. The lectures were delivered by experienced professionals from the Nuclear Industry. The interactive session and the panel discussion were very lively. For panel discussion, senior members of the Nuclear Industry participated.

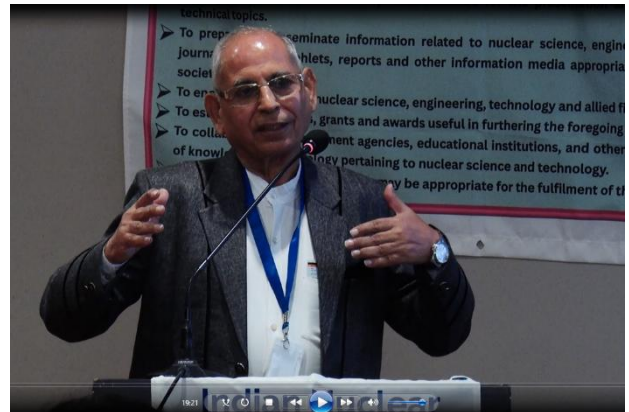
The outcome of the theme meeting was following:

- (1) There is a strong interest among the industry leaders to take active participation in the Nuclear Energy Mission of Government of India. This includes the independent power producers, the manufacturers, the supply chain managers, the consultancy firms, the regulators as well as the research institutes.
- (2) Many of these sectors have few apprehensions going ahead with such a large and time bound program. These need to be dispelled by the Government
- (3) The SHANTI Act was passed by Parliament in December 2025. The Government is working on drafting Rules and Regulations. The Act will be notified after the Rules and Regulations are finalised and tabled in Parliament. It will come into force after the notification, and we expect it to increase the pace of investment in the Nuclear Power sector.
- (4) The Long term plan in the Government sector which is around 60 % is well structured, however the rest 40 % which comes under the private sector needs to be properly planned
- (5) Though for meeting the national target by 2047, the large reactors are going to be the mainstay, development in SMR technology will help diversify in the areas of Captive power plants, remote location supply, Data Centres, Hydrogen production, etc.

## Photographs of the Theme Meeting



Welcome by Convenor, Theme Meeting



Introduction by President, INS



CMD, NPCIL delivering Inaugural Address



Session 1 Coordinator: Shri GD Mittal, VP, INS



Lecture1: Dr RB Grover



Lecture-2: Shri Mukesh Singhal



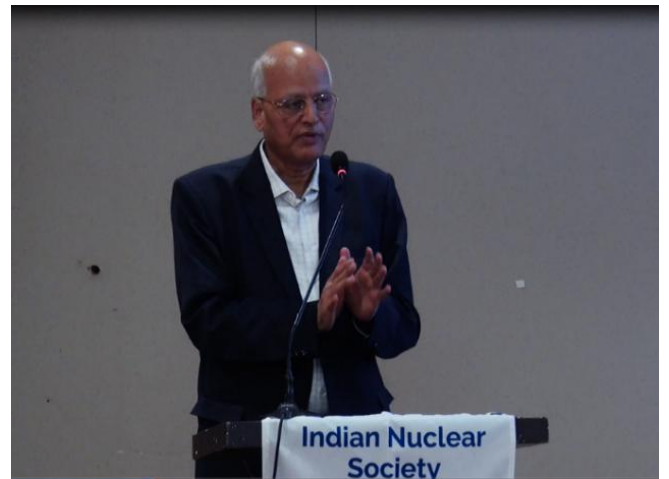
Lecture-3: Shri Sameer Hajela



Session 2 Coordinator: Shri AK Sinha, EC, INS



Lecture-4: Shri Sanjay Mulkalwar



Lecture-5: Shri Ranjay Sharan



Session 3 Coordinator: Dr D Datta, EC, INS



Lecture-6: Shri SA Bhardwaj



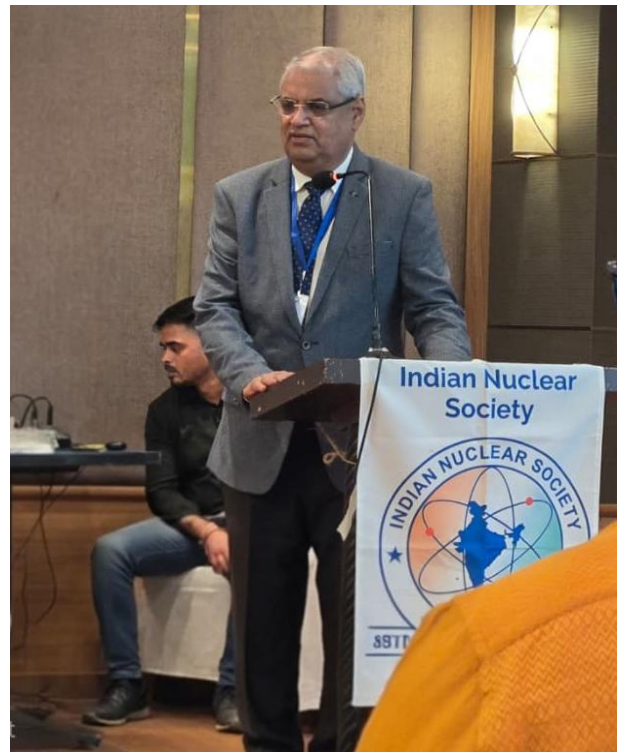
Lecture-7: Shri R Raghavan



Lecture-8: Dr AK Nayak



Session 4 Coordinator: Dr VK Manchanda, President, INS



Lecture-9: Shri Arvind Shrivastava



Lecture-10: Dr DK Shukla



Interactive Session: Shri KU Agrawal



Dr Anil Parab, L&T



Shri S Shamasundar, ProSIM



Shri SM Mujumdar, KOEL



Shri Roshansingh Navlur, CADMATIC



Shri Ashwin Kr Anand, Polyenergetics Ltd.



Dr S Suryanarayan, Kinetrics India Pvt Ltd



Interactive Session: Q & A



Panel Discussion



Panel Discussion: Q&A



Panel Discussion: Q&A



Some INS EC Members during the lunch session



Lady INS Members & Staff with participant



INS EC Members & Staff with participants in Theme Meeting



All participants in INS Theme Meeting on Concluding Day