

4TH EDITION

CONFERENCE BROCHURE

INDIA

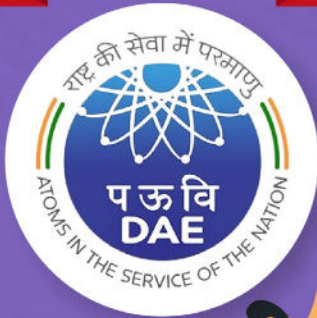
NUCLEAR BUSINESS P L A T F O R M

ACCELERATING NUCLEAR SCALE-UP, ENABLING FASTER TRANSITION

10-11 OCTOBER 2023

CIDCO Convention Centre, Mumbai, India

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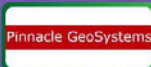
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EXHIBITORS





DAY I – 10 October 2023

Session 1: Strategic Overview of Energy Transition and Nuclear Development

The session will bring forth the meticulous insight of India's nuclear leadership on the strategic overview for India's clean energy transition and nuclear development; Reassessing energy mix to achieve climate objectives, sustainability, power reliability, energy security and affordability; Drawing energy projections and envisioning India's nuclear power status in 2047 when India will be celebrating 1st centenary of its independence; and deliberating key policy, legal, financial, regulatory imperatives to draw a roadmap to speed up nuclear scale-up in the country.

08.45

Welcome Address by Session Chair

09.00

Inaugural Address: Energy Transition Vision, Policy and Roadmap for Nuclear Scale-up
Dr VK Saraswat, Member, **NITI Aayog, Government of India**

09.10

Special Address: Getting Nuclear into Action to Make Net Zero Possible
Dr. Ajit Kumar Mohanty, Chairman – Atomic Energy Commission, **Government of India** (invited)

09.20

Vision Address: Envisioning Nuclear Power for India @2047
Dr Anil Kakodkar, Member & Chairman (former), **Atomic Energy Commission, Government of India**

09.45

Keynote panel – Delivering Nuclear at Scale and Speed

The panel will deliberate upon the requirement for critical ingredients for policy and industry initiatives for accelerating the nuclear scale-up; Institutional support and Policy changes required for infrastructure buildup to mainstream nuclear power in the energy mix of India; Challenges and solutions for legal, regulatory, financial, insurance, and project issues; Action items for Improving public awareness and public acceptability; Strategies for assured fuel supplies; Policy interventions and strategies for private participation, decentralization and mass market; Roadmap and timelines for nuclear scale-up; Roadmap for Nuclear scale-up in line with Solar/Wind/Green Hydrogen Missions to give clarity to stakeholders

Context Setting: VIF-IIT Task Force Report on India's Energy Transition in a Carbon Constrained World
Ambassador DP Srivastava, Distinguished Fellow, **Vivekanand International Foundation**

Moderator: Ayush Agarwala, Partner, **Krishnamurthy & Co. (K Law)**

Panelist:

- DK Shukla, Chairman, **Atomic Energy Regulatory Board**
- Ujjwal Bhattacharya, Director-Projects, **NTPC**
- PA Suresh Babu, Director (HR), **Nuclear Power Corporation of India Limited**
- Dr AK Nayak, Head- NCPV, **Department of Atomic Energy**

10.45

Morning Coffee Break

Session 2: Approaches for Commercializing SMRs/ARs

The session is meant to draw insight on the development of SMRs, Micro-reactors and Advanced Reactors/ HTRs/MSRs etc, SMR Design features, Licensing, construction, operational, Safety system, seismic features; Siting and deployment strategy; Application areas such as clean Hydrogen, industrial, transportation

11.25

Conference Chair Opening Remarks

11.30

Overview of Indian SMR Market and SMR Program, Opportunities and Supply Chain Imperatives
Dr AK Nayak, Head-NCPV, **Department of Atomic Energy**

11.50

Developing Regulatory Frameworks and Licensing Approach for SMRs
SB Chaffle, Executive Director, **Atomic Energy Regulatory Board**

12.10

Current status and plan of SMR development in Korea
Dr. Han Ok Kang, Vice President for SMART Development, **Korea Atomic Energy Research Institute (KAERI)**

12.30

Rosatom's SMR Solutions for India
Dr. Alexandre Volgin, Project Director, **Rusatom Energy Projects JSC**

12.50

Panel – SMR Technology Development, Roadmap for Commercial Deployment in Power Sector and Wider Applications in Non-electric sectors

Overview of SMR Technology development (Domestic and Global) and timelines for commercial deployment; SMR importance for faster energy transition, India's energy security; Policy imperatives for VRE integration and Grid stability; Applications in the clean hydrogen economy, Industrial sector, and EV sectors etc; Reach-out strategy to industrial players and big businesses for the adoption of nuclear-powered solutions for their decarbonization requirements. Possible areas of global cooperation

Panelist:

- Dr. AK Nayak, Head-NCPV, **Department of Atomic Energy**
- Ujjwal Bhattacharya, Director (Projects), **NTPC**

- Rajnath Ram, Advisor-Energy, **NITI Aayog**
- Vice Admiral (Retd) NM Nadaph, Nuclear Advisor, **Walchandnagar Industries Ltd**

13.35

Lunch

Session 3: Strategy, Economics and International Collaborations

The session will focus upon the strategic aspects of international cooperation (G2G, B2B, etc), financial instruments, Capital raise, liability and insurance issues, new business models in nuclear, and push for private participation and global partnerships.

14.35

Conference Chair Opening Remarks

14.40

Legal Frameworks, International Collaborations and Privatization in Nuclear Energy

Dr. Garima Sharma, Head- SSSD, **Department of Atomic Energy**

15.00

Capital Requirements and Innovative Financial Instruments in Nuclear Sector

KN Babooraj, Executive Director (Finance), **Nuclear Power Corporation of India Limited**

15.20

Panel - Evolving business models in nuclear sector and addressing the policy issues, legal hurdles, regulatory challenges, capital raise, civil liability, insurance for enhanced private participation and global partnerships

Overview of different business models, collaboration and co-operation models (recent one being NPCIL & BHEL collaboration), Joint ventures, participation scope for private players, opportunities for global participation, M&A opportunities: Addressing challenges pertaining to policy aspects, legal provisions, Capital raise, liability, insurance coverage etc to create broader participation by different stakeholders

Panelist:

- NR Chaudhary, Executive Director (Commercial), **Nuclear Power Corporation of India Limited**
- Avinash J Gaikwad, Outstanding Scientist & Head- Emerging Regulatory Division, **Atomic Energy Regulatory Board**
- AP Samal, General Manager & Head- Nuclear, **NTPC**
- Yatindra Mohan, General Manager (Nuclear Business), **Bharat Heavy Electricals Limited**
- Hitesh Joshi, General Manager, **GIC Re**

16.20

Afternoon Coffee Break

Session 4: Program Delivery and Project Management Strategies

The session will bring out key issues of program delivery and nuclear project management; Experts will throw their insight on the benchmark figures, bottlenecks, lessons learnt, innovative solutions and mechanism for knowledge transfer.

16.55

Conference Chair Opening Remarks

17.15

Session Keynote Address: Innovative Approaches and Best Practices for Nuclear Program Delivery of Large Reactors and SMRs

R Sharan, Director (Project), **Nuclear Power Corporation of India Limited**

17.25

Legal Paradigm and Best Practices for Contract Modeling and Management

Ayush Agarwala, Partner, **Krishnamurthy & Co. (K Law)**

17.45

Panel - Managing Emerging Complexities and Uncertainties of Large Reactors and SMRs Programs

Panel discussion will revolve around the issues of emerging complexities and uncertainties of LR and SMR programs and charting out frameworks for nuclear program management; Lessons learn from countries such as South Korea and China on faster execution; Strategies for project completion within 4-6 years for large reactors (and 2-3.5 years for SMRs); Assessment of inter-relationship of complex project activities; Involved uncertainties due to long timeline; Cost and schedule planning methodologies for project tracking; Regulatory interfacing and management; Quality management; Establishing optimized benchmarks for long lead items and knowledge transfer mechanism for efficient program delivery; Draw key benchmark figures based on the assessment of different projects undertaken globally; Discussion on and adoption of best practices; Requirement of digital tools for project management and knowledge transfer

Panelist:

- S Jaya Krishna, Executive Director (Project-LWR), **Nuclear Power Corporation of India Limited**
- MK Srivastava, Executive Director (Engineering), **NTPC**
- Praveen Bhatt, VP & Head-Nuclear, **L&T Heavy Engineering**
- RK Chokhani, General Manager & Head-Nuclear, **Bharat Heavy Electricals Limited**
- TT Mani, Managing Director, **Avasarala Technologies**
- Thomas Mathew, Executive Director (QA), **Nuclear Power Corporation of India Limited**

19.00

End of Day I



DAY 2 – 11 October 2023

Session 5: Managing the Triad of Safety, Quality and Performance

The Session will focus upon key issues of safety, quality and performance across project, operational and decommissioning phases of NPPs, Regulatory aspects, equipment compliance management, testing, inspection and certification, NDT practices, radiation monitoring & radiological protection.

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| 08.55 | Conference Chair Opening Remarks |
| 09.00 | Insight on Indian Regulatory Frameworks and Best Safety Practices
DK Shukla, Chairman, Atomic Energy Regulatory Board |
| 09.20 | New Approach to Equipment Qualification for Enhanced Safety and Quality Assurance
Patrick Murray, Senior Manager, Conformity Assessment, IEEE SA |
| 09.40 | Critical Valve Technologies for Improved Safety and Performance of NPPs
Thomas Pakusch, CEO- Adams Armaturen, Supreme Technology |
| 10.00 | ISO-19443: New Approach to Nuclear Safety, Quality and Technical Excellence
DN Sanyal, ED- Technology Development, Nuclear Power Corporation of India Limited |
| 10.20 | Morning Coffee Break |

Session 6: AI, Digitalization and Automation in Nuclear

Among all prominent industries across the globe, nuclear has the least penetration of AI and digital solutions. The session will focus upon bringing operational excellence through digital adoption, Digital/II/IoT solutions for plant operation, grid interaction, project management and engineering, life cycle management, increased utilization of robotics.

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| 11.15 | Conference Chair Opening Remarks |
| 11.20 | Plant Life cycle management and the Scope for Digital Adoption
Sunil Kumar, Associate Director (Operations), Nuclear Power Corporation of India |
| 11.40 | Requirement and Impact of Digitalization and AI in Nuclear
SG Bhandarkar, Associate Director (E&I), Nuclear Power Corporation of India Limited |
| 12.00 | Panel - Building HR Capabilities and the Role of Digital Solutions in Learning and Training
<i>The panel will discuss the scale of job opportunities in nuclear power projects, HR initiatives for capability build-up and tie-ups arrangements with academia and national institutions, Training programs, Possible digital solutions for effective and efficient delivery of HR and training modules</i>
Panelist: <ul style="list-style-type: none">• MG Kelkar, Executive Director (HR), Nuclear Power Corporation of India Limited• Dilip Kumar Patel, Director (HR), NTPC• N Rambabu, Executive Director, Electronics Corporation of India Ltd• Avinash J Gaikwad, Head- Emerging Regulatory Division, Atomic Energy Regulatory Board |
| 13.00 | Lunch |

Session 7: Supply Chain and Fuel Cycle Management

The session is meant to discuss and draw business conclusion on Front end and Back end fuel technologies, Advancement and optimization and fuel utilization, waste re-processing, Enlarging nuclear supply chain by including more of small/medium scale companies, capability buildup, and the required means and need for making India a global nuclear; Addressing the industry challenges and policy issues to support large scale expansion in the sector

13.55

Conference Chair Opening Remarks

14.00

Session Keynote Address: Assessing India's Fuel Security to Support Nuclear Scale-up

Dr Komal Kapoor, Chairman & Chief Executive, **Nuclear Fuel Complex**

14.30

Advanced Fuel Technologies and Fabrication Capabilities

Nuclear reactors and types of fuels, nuclear fuel fabrication technologies, challenges, net zero concepts, scope for cost optimization, standardization of fuel manufacturing, vendor capability development in India, scope for collaborations for making nuclear fuel cost competitive and also nuclear fuel for non power applications

Dr. DS Setty, Deputy Chief Executive, **Nuclear Fuel Complex**

15.00

Panel - Nuclear Supply Chain in India, Industry Challenges, Policy Interventions, and Support Requirements to Scale up Nuclear Capacity

Assessment of existing infrastructure, fuel supply management, Existing capability and capacity, Challenges and bottleneck issues of the industry, Industry requirements and policy interventions to address industry issues, Policies for SME / Startup companies, Opportunities of mergers & acquisitions and further consolidation to bring synergy effect, Scope for participation of global companies, Improving Ease of doing business, Cost benefits of localization

Panelist:

- Dr DS Setty, Outstanding Scientist & Dy Chief Executive, **Nuclear Fuel Complex**
- RK Chokhani, General Manager & Head- Nuclear, **Bharat Heavy Electricals Limited**
- Sushil Agarkar, Sr VP (Precision Engineering), **Godrej & Boyce**
- Praveen Bhatt, VP & Head- Nuclear, **L&T**

16.00

Afternoon Coffee Break

Session 8: Public Session: Nuclear for Everyone – Debunking the Myths

This public session is meant to highlight the role of nuclear as an effective energy transition technology and debunk the myths surrounding nuclear. Nuclear has a great advantage for climate change mitigation but is also low on public acceptability and still lower on positively active support from the public. Some myths and misconceptions have been spread against the nuclear by some vested interest parties. This special session is precisely meant to take nuclear to the general public, academia and other stakeholders in India, in order to make them feel more connected to the nuclear. The session, through the right frameworks, will help spread the positive message about the advantages and suitability of nuclear to address the urgent need of climate change.

16.25

Conference Chair Opening Remarks

16.30

Radiation and Radioactive Waste: Understanding What it Really Means

Dr AK Nayak, Head- NCPW, **Department of Atomic Energy**

16.50

Role of Nuclear in Creation of Economic and Job Opportunities: Mapping of nuclear job requirements for upcoming Nuclear Program and parallel job opportunities

Dr. Sitakanta Mishra, Associate Professor of International Relations, **Pandit Deendayal Energy University**

17.10

Tapping Entrepreneurial Potential in the Nuclear Sector: Role and Expectations of Youth from Stakeholders

Dr. Samyak Munot, Board Member, **Indian Youth Nuclear Society**

17.30

Open Forum: Public Q&A Session

17.50

INBP 2023 Summary & Key Takeaways

18.00

End of Conference

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KOTRA was established in 1962 as a national promotion organization operated by the Ministry of Trade, Industry and Energy (MOTIE), Government of South Korea. Since then, it has facilitated Korea's rapid export-led economic development through various trade promotion activities such as overseas market surveys, SME export promotion, trade info services, government-to-government export, foreign investment in Korea (FDI) promotion and business matchmaking

KOTRA has an extensive worldwide network of 129 Korea Business Centres in 84 countries. KOTRA has 6 offices in India including Mumbai. KOTRA-Mumbai represents the western India including Maharashtra, Madhya Pradesh and Chhattisgarh. Mumbai as the financial hub of India having great connectivity via air, land and sea, KOTRA-Mumbai enjoys a commanding position over all other offices in India.



Korea Trade-Investment
Promotion Agency

www.kotra.or.kr

At INBP 2023, there will be 9 Korean companies exhibiting in the Korean country pavilion.

Korean Company Exhibiting	Website	Main Offerings
Solux 	www.solux.co.kr	LED Flood lights and panel lights
Beautiful Environment Construction  <small>환경자원연구소</small> 아름다운환경건설(주)	www.esakorea.com	Plastic Sheet Pile (PSP) for embankment protection to stop soil erosion
INTERNATIONAL ELECTRIC  <small>SINCE 1946</small> 국제전기(주)	www.ieckr.com	UPS, Inverters, Battery charger, Regulating Tx (AVR)
NARA Corporation 	www.naracorp.com	VS Fluid coupling & Disk coupling
Wonil T&I 	www.woniltni.co.kr	PV, HX, Sea Water Debris filter
Future Automation  <small>FUTURE AUTOMATION CO.</small> 미래자동화	www.servokorea.co.kr	Diagnostics for hydraulic actuator
LeeBridge 	www.leebridge.co.kr	Automated design Solutions
VIV International 	www.vivenc.com	Control valves with pneumatic actuators
Daechang Solution 	www.dsol.co.kr	Retube waste containers fro End shield , CT, PT

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Krishnamurthy & Co. (K Law) (established in 1999), with 85+ lawyers, is a distinguished full-service Indian law firm having offices in Bengaluru, Mumbai and New Delhi. K Law regularly advises and represents leading domestic and international entities and high net worth individuals on transactional and advisory mandates including representing them before various Courts and Tribunal. In the nuclear energy sector, K Law is in a unique position to be able to provide clients end to end services right from advice on setting up a business in India, regulatory advise, assisting with transactional work like mergers/acquisitions/financing to representing and advising clients in dispute situations.



www.klaw.in

IEEE Standards Association (IEEE SA)

IEEE Standards Association (IEEE SA) provides a neutral and open environment that empowers innovators – across borders and disciplines – to develop standards and solutions that shape and improve technology for the benefit of industry and society. Administered by the IEEE SA, the IEEE Conformity Assessment Program (ICAP) and IEEE Nuclear Power Engineering Committee (NPEC) recently introduced IEEE Equipment Qualification (EQ) Navigator, a software-as-a-service (SaaS) for the nuclear industry to systematically build an EQ binder that allows for independent and streamlined assessment of conformance to IEEE nuclear power standards.



www.standards.ieee.org

State Atomic Energy Corporation Rosatom

Rosatom stands as a global technological leader with capabilities extending beyond the nuclear sector. With business partnerships across 50 countries, the company is deeply committed to promoting sustainable development on a global scale.



www.rosatom.ru

As one of the pioneers in the nuclear industry, Rosatom has consistently been at the cutting edge of the global sector. Today, Rosatom continues to push the boundaries with its unrivaled expertise and experience in high-tech products. From hydrogen and energy storage to nuclear medicine and environmental solutions, Rosatom's portfolio of over 100 new businesses positions the company among the leading tech giants worldwide.

Globally, the company boasts the second-largest uranium reserves, accounts for over a third of the world's enrichment market, and is the world's leading builder of the latest generation nuclear power plants. With its headquarters in Moscow, Rosatom encompasses over 430 enterprises and organizations, employing over 330,000 individuals.



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Supreme Technology is an engineering company providing Solutions since 1995 for Flow including critical valves for Nuclear Industry by Adams Armaturen GmbH or RCV valves with very low Cv (0.0000018) & Water Disinfection with Gas Chlorination Systems. For over 60 years, ADAMS is leading in the development of triple eccentric butterfly valves and has constantly focused on innovation, reliability and high quality for valves built to critical requirements with long successful experience with power plants which enables Adams Armaturen to provide customers with perfectly coordinated valve solutions for the different power plant types. Especially when it comes to valves for nuclear power plants, a higher level of safety is needed than in other applications. Adams valve constructions are designed to always meet these requirements. Our experience has brought us great expertise, which had enabled us to develop solutions others have not even thought of.



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