

Brainstorming Session on **Pumped Storage Projects : Powering India's Renewable Future**

**1st May 2025 (Thursday), SCOPE Convention Centre
Lodhi Road, New Delhi**



Senior Dignitaries Gracing the Occasion



Pankaj Agarwal
Secretary,
MoP



Ghanshyam Prasad
Chairperson
CEA



Akash Tripathi,
Addl Secretary (Hydro),
MOP



M.G. Gokhale
Member (Hydro)
CEA



Gurdeep Singh,
CMD
NTPC



R.K. Vishnoi
CMD
THDC



Mohammad Afzal,
JS (Hydro)
MOP



Bhupender Gupta
Director (Tech),
THDC

Organized by



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INTRODUCTION

India has set a visionary target to achieve net zero emissions by 2070, with significant milestones in renewable energy integration along the way. With increasing penetration of solar and wind, the power system faces new challenges in grid balancing, peak demand management, and maintaining frequency stability. In this context, Pumped Storage Projects (PSPs) are being widely recognized as the most reliable, mature, and scalable energy storage technology.

Recognizing the critical role PSPs will play in the future power mix, the Central Electricity Authority (CEA) and THDC India Ltd. in association with NTPC, with the support of CBIP & INCOLD, are jointly organizing a One-Day Brainstorming session. The aim is to foster dialogue and collaboration among policymakers, developers, technical experts, state utilities, and regulatory authorities.

This session will focus on:

- Policy and statutory frameworks
- Environmental and forest clearances
- Design and constructional challenges
- Geological and material considerations
- Implementation issues and challenges at ground level

The event will be graced by senior dignitaries including Secretary (Power), Chairperson, CEA, Additional Secretary (Hydro) MoP, CMDs of major CPSUs, Heads of State Utility, Private Utilities and leading domain experts.

The sessions will highlight successful case studies, challenges in project execution, and strategies to expedite PSP development across the country.

TENTATIVE SCHEDULE

09:30 - 10:30	Inaugural Session		
10:30 - 11:00	Group Photo & Tea Break		
11:00 - 12:15	Panel Discussion 1	“Policy, Planning & Regulatory Framework for PSPs” Objective: Deliberate on current policy landscape, storage obligations, and measures for accelerating PSP deployment. Moderator : Member (Hydro), CEA	
	Organization	Panelist	Proposed Topic
	Ministry of Power	JS (Hydro)	National Storage Strategy & Support for PSPs
	THDC	Director (Technical)	Developer’s Perspective on Policy Gaps
	CEA	CE (Hydro Planning)	Policy framework and overview of PSPs
	UPJVNL	MD/Director	Uttar Pradesh’s Vision for PSP Deployment – Institutional Readiness and Policy Support
	Greenko Group	CEO/CTO	Aligning National Storage Obligations with PSP Development – Private Sector Expectations
12:15 – 13:30	Panel Discussion 2	“Geological, Civil & Material Considerations in PSP Development” Objective: Explore site selection challenges, design innovations and lessons from current projects. Moderator : DDG, GSI	
	Organization	Panelist	Proposed Topic
	THDC	Executive Director (Technical)	Design & Geological aspects of PSPs
	GSI	Sr. Executive	Geological aspects of PSPs
	CSMRS	Sr. Executive	Site-Specific Material Characterization and Geotechnical Investigations for PSP Caverns
	CWC	Chief Engineer	Civil Design aspects of PSPs
	Academic Expert - IIT Roorkee	Professor	Research Trends in Tunneling & Cavern Design
	MAHAGENCO	Sr. Representative	Geotechnical and Structural Challenges in Developing PSP Sites in Maharashtra
	JSW Energy	Sr. Representative	Design Optimization and Material Challenges in Executing Large-Scale PSPs

13:30 – 14:15	Networking Lunch		
14:15 – 15:30	Panel Discussion 3	“Environmental & Forest Clearance Framework – Challenges & Streamlining” Objective: Examine environmental safeguards, clearance timelines, and single-window proposals. Moderator : MS (EAC), MoEF&CC	
	Organization	Panelist	Proposed Topic
	MoEF & CC	Director (EC)	EC Process Simplification for PSPs
		Director (FC)	FC Process Simplification for PSPs
	State Forest Department	Sr. Executive	State Perspective on Forest Diversions
	APGENCO	Sr. Representative	Balancing Environmental Sensitivities and Development Needs in PSP Projects
	Adani Group	Sr. Representative	Accelerating EC/FC Processes for PSPs: Suggestions for a Single-Window System
	NHPC/NEEPCO	ED/GM (Env.)	Practical Experience in EC/FC Clearances
1530 - 1545	Tea Break		
15:45 – 17:00	Panel Discussion 4	“Implementation Challenges & Way Forward for PSPs in India” Objective: Dive into execution timelines, contractor availability, financing, and interstate coordination. Moderator : Shri Neeraj Verma CGM, THDCIL	
	Organization	Panelist	Proposed Topic
	NTPC / SJVN	Executive Director/ GM	Scaling Up PSP Deployment
	REC / PFC	Executive Director/ GM	Financing Options for PSPs
	THDC	GM Civil Design	Implementation Challenges in Tehri PSP & lessons learnt
	OHPC	Senior Executive	Implementing PSPs in Challenging Terrains – Field-Level Realities and Solutions
	Tata Power	Sr. VP	PSPs as Enablers of Renewable Integration – A Developer’s Roadmap to Scale and Finance
17:00 – 17:30	Wrap-up Session and Way Forward		
	• Summary of Deliberations – CEA • Concluding Vote of Thanks – THDC		

WHO SHOULD PARTICIPATE?

- Senior officers from Ministry of Power, MOEF, CEA and State Energy Departments
- Project developers, EPC contractors and OEMs
- Officers from CPSUs, CWC, GSI, CSRMS and regulatory bodies
- Environmental & geological consultants and subject matter experts
- Academicians, researchers, and students from engineering institutions
- Representatives from financial institutions, law firms and infrastructure bodies
- Private Developers, contractors/ consultants, OEMs

KEY TAKEAWAYS FOR PARTICIPANTS

- First-hand insights into the latest policy and regulatory frameworks
- Direct interaction with senior government officials and approving authorities
- Exposure to practical challenges and innovative solutions in PSP development
- Networking with top stakeholders from public and private sectors

- Enhanced understanding of technical, environmental, and procedural aspects of PSPs
- Access to curated session material, presentations, and follow-up resources

REGISTRATION AND SPONSORSHIP OPPORTUNITIES

Participation in this prestigious workshop is by invitation only, with an expected gathering of approximately 200 distinguished delegates, including senior officials from the Government, public and private sector developers, regulatory bodies, consultants, and technical experts.

While **no registration fee** is being charged for participation, the sponsorship support from industry stakeholders, solution providers, and partner organizations to help successfully deliver this impactful and high-profile event, is invited.

Sponsorship Tiers: Gold – 5.00 Lac (Max 2) | Silver – 3.00 Lac (Max 2)

Sponsors will enjoy the following privileges:

- High-visibility branding across the venue and workshop materials
- Exclusive exhibition space to showcase your services, technologies or products
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CONTACT FOR PARTICIPATION & SPONSORSHIP

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Lodhi Road, New Delhi

REGISTRATION FORM

1. Name _____
(First Name) (Middle Name) (Surname)
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3. Organization _____
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5. City _____ PIN _____
6. Mobile No. _____
7. E-mail ID _____
8. I intend to participate in the deliberations of the Conference.

(Signature)

Place: _____

Date : _____

SECRETARIAT

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