



24th

Annual Conference on

Organisers:

POWERLINE

RenewableWatch

HYDRO POWER IN INDIA

Emerging Trends, PSP Opportunities and Outlook

January 20-21, 2027 | Le Méridien, New Delhi

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MISSION

- Energy transition goals are driving India towards a cleaner and more reliable power system. Hydropower plays an important role in this transition by providing renewable, firm, round-the-clock electricity and operational flexibility to meet peak demand and balance variations in renewable energy generation. Pumped storage projects (PSPs) are also gaining importance as a source of long-duration energy storage, enabling surplus electricity to be stored and released when required.
- As of August 2026, India's installed hydropower capacity stood at 52 GW, accounting for 9.39 per cent of the total installed capacity. In terms of generation, hydropower contributed over 9.1 per cent to the total power generation mix in 2025-26. The segment has continued to expand, with capacity additions of 3,620 MW in 2025-26. Further, the National Generation Adequacy Plan projects that large hydropower capacity will reach 78 GW and PSP capacity will reach 94 GW by 2035-36.
- Recognising the role of hydropower in strengthening grid flexibility and energy security, the government has introduced several policy initiatives to support its development. The draft National Electricity Policy 2026 proposes streamlining environmental and forest clearances, improving project execution and introducing appropriate financing mechanisms to enhance project viability. The Central Electricity Authority's master plan for the Brahmaputra basin also envisages an investment of Rs 6.42 trillion to strengthen transmission infrastructure for the evacuation of around 76 GW of hydropower and PSP capacity. Further, the Small Hydro Power Development Scheme, approved in April 2026, aims to develop 1,500 MW of new small hydro capacity by 2030-31 with an outlay of Rs 25.84 billion.
- PSPs are expected to drive the next phase of growth, with 15.87 GW of capacity under construction as of August 2026. The CEA has set out a roadmap to commission 100 GW of PSP capacity by 2035-36, with an estimated investment requirement of around Rs 5.8 trillion.
- Despite the strong growth outlook, the segment faces challenges related to project financing, lengthy approval processes, construction delays, land acquisition and regulatory clearances. Addressing these issues will be essential to accelerate capacity addition and improve project viability.
- **The mission of this conference is to provide a platform to discuss the recent trends and key developments in the hydropower segment, deliberate upon upcoming opportunities, identify key issues and challenges, and discuss the future outlook for the segment in India. Further, the conference will showcase new technologies, best practices in O&M and asset management, and noteworthy projects.**

PREVIOUS PARTICIPANTS

ACME Cleantech, ACME Urja, AD Hydro, Adani Group, AFRY, Andritz Hydro, Anant Hydro, Aqua Machines, Aquagreen, Artelia, Bagla Group, BA Prerna, Bajaj Reinforcement LLP, B Fouress, Bauer Kompressor, BBMB, Bharat Heavy Electricals, Bosch Rexroth, Burckhardt Compression, Butwal Power, C&S, Carpi, CBMEW, CEA, Chemical Process Piping, Chenab Valley, Damodar Valley Corporation, Danfoss, DEIF, Demech Chemical, Dilip Buildcon, DMR Hydroengineering & Infrastructures, DRAIPL, Dragages Singapore Bouygues Construction, Dohwa Eng, Druk Green, Dynasoure Concrete Treatment, EDF, Electrosteel, Elara Capital, Entura Hydro Tasmania, Epiroc, Eptisa, Erhard Muhr, EY, Fitchner Consulting, Flovel Energy, Flow Science Software, Gall Zeidler Consultants, GE Power, GE Renewable Energy, Geppert Hydro, GMR Energy, Gogoal Hydro, Govt of Bihar (Bihar Vikas Mission), Grassdoor Logistics Technologies, Greenko Group, GSECL, GUVNL, Gurahan SHEP 1.5, GVK, Hewadwal Evrascon JV, High Commission of Canada, Hindustan Adhesives, Hindustan Construction Company, Hitachi Energy, Hunan Sund Technological, Hydac, ICRA, Indian Institute of Technology Roorkee, Inel Gas Control, Integrated Geoscience Solutions, IPM, IREDA, iValue Advisors, J Kumar Infraprojects, Jade Consult Nepal, Jaiprakash Power Ventures, Jash Engineering, Jeevan Ecotex, JKSPDCL, JMC Projects (India), Jindal Steel & Power, JSK Eng, Kedia Pipes, Kaleidoscope, KD Engineering Constructions & Consultancy, Kholongchu Hydro Power Project, Kosol Energie, Kundan Energy, Larsen & Toubro (L&T), LCC Engineering, LCC Projects, Lombardi, Loxus Consulting, Lucknow University, MAHAGENCO, Maharashtra Rail Infrastructure Development Corporation, Malana Power, MBCC Group, Mecon, Mecamidi, Megger, Megha Engineering and Infrastructures (MEIL), Mineral Exploration Corporation, MNR Construction Dehradun, Modern Institute of Engineering & Technology Jammu, Montanhydraulik, M&M Ropeways, Munich Re (Group), MYK Arment, Nakayama Iron Works, Navayuga Engineering Company, NCEC Industrial Services, NEEPCO, Nelumbo Technologies, Nepal National Committee, NHDC, NHPC, Nippon Koei, Northern Power Erectors, NTPC, NTPC Renewable Energy, Oracle, Orica Mining Services, Panchhor Hydro, Patel Engineering, Pashchim Hydro, PBL, PFC, Penetron, Power Machines, Preformed Windings, Rahee Infratech, Rastriya Prasaran Grid Company, Rathi Hydro, Realtime Automation, ReNew, RG Fluid Power, Rodic Consultant, Rohan & Co. IP Lawyers, Sammon Infracorp, Samsung C&T Corporation, Sanghvi Movers, Sarathy Geotech & Engineering Services, SBI, Shalimar Paints, Sharda University, Sika, Signet Teknicks, SK Infra, Soneji, Sri Krishna Engineering, State Engineering Services Government of Haryana, Steel Authority of India, Steelcraft, Sterling and Wilson, Sterlite Power, Suvera, Tata Power, Tata Projects, Tech Mahindra, The World Bank, THDC, Tirupati Enterprises, Toshiba & JSW Power Systems, Toshniwal, TPSC, Transformers & Rectifiers, Troyer, TSGENCO, TDPS, UJVNL, VAG Valves, Van Halteren Technologies, Varsha Vivek Jagtap, Venus Valves, Virtual Hydromet, VNM Hydrotek, Voith Hydro, WAPCOS, Water Resources Department, WEG Industries, Xylem Inc, Yaha Water, Yash Group, Yooil Infrastructure, etc.

KEY TRENDS AND OUTLOOK

- What are the key trends and developments in the hydropower sector?
- What are the major factors driving hydropower capacity expansion?
- What are the main challenges, and what is the outlook for future capacity additions?

NHPC PERSPECTIVE

- What is NHPC's perspective on the current state of the hydropower sector?
- What is the status NHPC's on key under-construction and upcoming projects? What are the capacity addition plans and targets?
- What are the key issues and challenges?

PRIVATE DEVELOPER'S PERSPECTIVE

- What is the perspective of private developers on the hydropower segment?
- What are the key challenges faced? What are the reasons for delays in project implementation?
- What are your plans for hydropower capacity addition over the next few years?

STATE INITIATIVES

- What has been the progress in the state's hydropower development?
- What is the untapped potential of the hydropower sector?
- What are the plans for future hydropower development and capacity addition?
- What have been the initiatives undertaken to support the development of hydropower in the state?

FINANCIERS PERSPECTIVE

- How do investors and lenders view the hydropower sector?
- What are the major financing challenges and concerns?
- What are some of the opportunities? What is the outlook for funding?

FOCUS ON PUMPED STORAGE HYDRO

- How can pumped storage support renewable energy integration and grid stability?
- What has been the experience so far in developing pumped storage projects?
- What is the outlook for achieving the announced target of 100 GW of pumped storage capacity?

HYDROPOWER PLANT ASSET MANAGEMENT AND O&M

- What are the O&M-related challenges and concerns for hydropower projects?
- What new approaches are being adopted for asset management? How are digital technologies and AI improving asset management and predictive maintenance?
- What will be the key O&M priorities for new hydropower projects?

COST AND TARIFF

- How have the costs of new and existing hydropower projects changed over time?
- What are the recent trends in hydropower tariffs and power procurement?
- What is the outlook for project costs and tariffs?

REGULATORS VIEWPOINT

- What are the key regulatory priorities for hydropower asset management?
- How can regulatory frameworks support the development of pumped storage projects?
- How can environmental clearances and land approvals be sped up?

DIGITAL TECHNOLOGIES IN HYDROPOWER OPERATIONS

- What are the best suited digital technologies for automating hydropower plants?
- What has been the experience in adopting these? What are the key challenges in adopting these technologies?
- How can digitalisation help improve plant availability and reduce lifecycle costs?

CROSS-BORDER HYDROPOWER TRADE

- What is the current status of cross-border hydropower trade in the region?
- What are the opportunities for expanding cross-border hydropower trade?
- What are the key challenges in developing regional power projects and transmission links?
- What is the outlook for electricity trade with neighbouring countries?

RENOVATION AND MODERNISATION

- What are the key outcomes of recent renovation and modernisation projects in India?
- How have R&M interventions improved generation, efficiency and plant availability?
- What are the investment requirements for upgrading ageing assets?

FLOATING SOLAR

- What is the potential for combining hydropower with floating solar projects?
- How can schemes such as the Pradhan Mantri Surya Sarovar Yojana (PM-SSY) support floating solar development?
- What are the key challenges in project implementation, and what is the outlook for capacity addition?

CLIMATE RESILIENCE, DAM SAFETY AND DISASTER MANAGEMENT

- What are the key challenges in ensuring dam safety and managing climate-related risks?
- How can flood forecasting, monitoring systems and sediment management improve dam safety and reservoir performance?
- What measures are needed to strengthen disaster preparedness and develop climate-resilient dam and hydropower infrastructure?

TARGET AUDIENCE

The event is expected to draw participation from executives, managers and decision-makers from:

- Central public units
- Interstate hydro projects
- Private power producers
- Cross-Border hydro projects
- Equipment manufacturers
- Technology providers
- Regulatory boards
- State electricity boards
- Civil work contractors
- State/Central government agencies
- Consultants
- Legal firms
- Financial institutions
- Etc.

DELEGATE FEE

	20 per cent discount (before Dec 31, 2026)				Fee without discount (after Dec 31, 2026)			
One delegate	20,000	3,600	23,600	290	25,000	4,500	29,500	400
Two delegates	32,000	5,760	37,760	460	40,000	7,200	47,200	650
Three delegates	44,000	7,920	51,920	630	55,000	9,900	64,900	900
Four delegates	56,000	10,080	66,080	810	70,000	12,600	82,600	1,150

- GST of 18% is applicable on registration fee.
- Registration will be confirmed on the receipt of payment.
- This is a non-residential programme

Special Low Fee

There is a special low fee of **INR 7,000** plus 18 percent GST per participant for **STATE OWNED UTILITIES, REGULATORY AUTHORITIES**, academic institutions and government agencies (not public sector corporate).

Organisers

The conference is being organised by **India Infrastructure Publishing**, the leading provider of information on the infrastructure sectors. The company publishes the **Power Line**, **Indian Infrastructure** and **Renewable Watch** magazines. It also publishes a series of reports on the energy sector, including **Pumped Storage Projects in India**, **Floating Solar Projects in India**, **Hydropower in India**, **Power Transmission in India** and **Power Distribution in India**. Additionally, the company publishes the **Power Line Directory and Yearbook**.

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