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MINISTRY OF INDUSTRY AND COMMERCE



Co-hosted by:



7th Annual Conference on

HYDRO POWER IN ASIA

Experiences Plans, Pumped Storage Plants, Challenges and Outlook

August 20-21, 2026 | Crowne Plaza By IHG, Vientiane, Laos

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MISSION

- Hydropower remains a key technology in supporting the energy transition in Southeast Asia, while strengthening regional energy security.
- Large hydropower in the ASEAN market currently accounts for around 54.8 GW of installed capacity as of 2024, with the largest capacities located in Vietnam (23.7 GW), followed by Lao PDR (10.1 GW), Indonesia (7 GW) and Malaysia (6.2 GW), according to IRENA.
- Laos is already emerging as a regional hub for hydropower development in Southeast Asia, exporting power to neighbouring countries. Under the LTMS-PIP cross-border electricity trading initiative, Laos exported up to 100 MW of renewable electricity to Singapore through existing transmission infrastructure through Thailand and Malaysia. Due to the project's initial success, the export capacity was doubled to 200 MW in September 2024.
- As Southeast Asian countries seek to integrate higher shares of variable renewable energy in their mix, proven technologies such as large-scale pumped storage hydro will be increasingly important in the region to provide system support and complement renewables.
- While the installed pumped hydro capacity base is currently small and centred in Thailand and the Philippines, there is substantial potential in the region across several potential development sites.
- Countries in the region are advancing projects and refining their regulatory frameworks to attract investor interest in this segment. Vietnam is actively investing in pumped storage hydro to manage solar and wind intermittency under its revised power plan. The Philippines' Green Energy Auction scheme is attracting investor interest in pumped hydro. Sarawak is scaling up its renewable energy capacity to 10 GW by 2030, aiming to become a regional battery of ASEAN by integrating large-scale hydro, floating solar and pumped hydro storage. Malaysia, Indonesia and Thailand are also exploring hybrid hydro-solar projects.
- That said, there are several challenges that need to be addressed in the region. High upfront capital costs and long payback periods limit private sector participation. Climate variability is affecting generation patterns, prompting adjustments in project design, siting and operational strategies.
- **The mission of this conference is to discuss and highlight the opportunities, challenges and outlook for the hydropower sector, including pumped storage, in Southeast Asia. It will explore the strategies and solutions being adopted by countries in developing, managing and operating their hydropower assets. It will also provide a platform to showcase new and promising technologies, best practices in construction and O&M strategies, as well as noteworthy projects in the region.**

TARGET AUDIENCE

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

- Hydro power projects across Asia
- Small hydro power developers
- Government and regulatory agencies
- Technology providers
- Civil work contractors
- Electric and hydro power utilities
- O&M service providers
- Financial institutions
- Equipment manufacturers
- Consultancy organisations, Etc.

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KEY TRENDS & DEVELOPMENTS

- What are the key trends in the hydropower sector in Southeast Asia?
- What are the key drivers for hydropower capacity expansion?
- What are the challenges? What is the future outlook for the segment?

COUNTRY PLANS AND PERSPECTIVE

- What has been the progress in hydropower development?
- What are the key drivers for hydropower capacity expansion?
- What is the hydro capacity pipeline for the next few years?
- What are the issues and challenges impacting hydropower project development? How are these being addressed?

FOCUS ON PUMPED STORAGE HYDRO

- What are the benefits of pumped storage hydropower in the region?
- What is the outlook and project pipeline for pumped storage hydro capacity?
- What are the challenges in developing pumped storage? What is the way forward?

FINANCING AND INVESTMENT

- What has been the perception of financiers and investors towards hydropower and pumped storage?
- What are the key risks and barriers to securing finance?
- What role does blended finance play in addressing these concerns?
- What is the investor outlook for pumped storage? What are some of the ways for mitigating bankability and finance-related risks for pumped storage hydro projects?

FLOATING SOLAR: PROGRESS AND POTENTIAL

- What has been the experience in developing hybrid floating solar PV plants in the region?
- What are the key issues and challenges involved?
- What is the outlook?

ROLE OF AI AND DIGITALISATION

- What are the most promising AI tools, advanced control and digital monitoring systems, etc., being deployed for hydropower assets?
- What are the solutions available for modernisation and maximising flexibility?
- What are the various use cases for these solutions? What is the outlook?

ASSET MANAGEMENT STRATEGIES

- What are the new and emerging asset management strategies being deployed?
- What are the most promising digital tools and solutions being deployed?
- What has been the experience so far?

IMPROVING GRID FLEXIBILITY

- What are the evolving power system requirements as regions seek to integrate higher shares of variable renewable energy?
- What role can pumped storage hydropower play in supporting grid flexibility requirements?
- What have been the experiences and learnings from pumped storage hydropower projects?

O&M FOR HYDROPOWER PROJECTS

- What are the O&M-related challenges and concerns for hydro power projects?
- What are the best practices and techniques in predictive and reliability centred maintenance?
- What are the latest advances in technologies and solutions in this regard?

Previous speakers include *(in alphabetical order of last name)*:

- Dr Jansen Luis Alexander, Principal Engineer (Civil – Hydro), Engineering Department, TNB Power Generation Sdn. Bhd, Malaysia
- Phan Ngoc Anh, Partner, Deloitte
- Sandeep Batra, Group General Manager, NHPC India
- Le Xuan Dzung, Deputy Manager, EVN PECC1
- Helen Han, Head (Vietnam), IFC
- Dimas Kharudin, Director Pembangkit Jawa Bali Masdar Solar Energy, Subsidiary of PLN Nusantara Renewables, Indonesia
- Frank Maas, Sales Manager, Van Halteren Technologies
- Peeti Ngamprasom, Sustainable Hydropower Specialist, Planning Division, Mekong River Commission
- Manopaphath Phissamay, Director of Water Reservoir Management Division, Ministry of Energy and Mines, Lao PDR
- Jayaraman Punidhan, Vice President & Head of Business Development, Adani Group
- Pankaj K Rajput, Director, Nelumbo Technologies
- Chhunleang Rorm, Deputy Section Chief, Generation Planning Office, Electricité du Cambodge (EDC)
- Eakarat Samintarapanya, Assistant Governor – Power Plant Planning, Electricity Generating Authority of Thailand
- Raymond L. Samson, Senior Science Research Specialist, Hydropower and Ocean Energy Management Division, Renewable Energy Management Bureau, Department of Energy, Philippines
- Jaideep Singh, Head of Department- Hydro Business, Soneji Engineering

PREVIOUS PARTICIPANTS

The conference has received excellent response over the last four years and previous participating organisations included: Aboitiz Power Corporation, AECOM, Adani Group, Afcons, Almana Power Corporation, Andritz Hydro, Arkora Indonesia, ARTELIA, ATS JSC, Baker Hughes, Baucon, Berkeley Energy, Black & Veatch, Bhutan Automation & Engineering, Bhutan Electricity Authority, Carpi India Waterproofing Specialists, Carpi Tech B.V., CBM Engineering Work, COMA26, Deloitte, Department of Energy - Renewable Energy Management Bureau (Philippines), Dragon Capital, EDL Laos, Electricité du Cambodge (EDC), Electricity Generating Authority of Thailand, Enerquip, Epiroc, Energy Department (Govt. of Punjab, Pakistan), Energy Water & Power-Gilgit (Pakistan), EVN PECC1 (Vietnam), Flovel Energy, GE Renewable Energy, GE Vernova, Gilbert Gilkes & Gordon, Govt. of Gilgit Baltistan, Grundfos Holding A/S, Greenko, HSTC funding, IDG Capital Vietnam, IFC, Ingeteam Indar Machines, International Consultant and Technology Transfer Corporation, IPM, Jade Consult, Leader Nam Tien Hydropower JSC, Malakoff Corporation Berhad, Markham Resources Corporation, Meccamidi, Mekong River Commission, MINH THUY ENERGY COMPANY LIMITED, Ministry of Energy, Water Resources and Irrigation (Nepal), Ministry of Energy and Mines (Lao PDR), Mott Macdonald, Multiline Enterprises, Nam Theun 2 Power Company Limited, Nepal Electricity Authority, NHPC, National Agency for Science & Technology Information, National Centre for Technical Progress (Ministry of Science & Technology), National Institute of Information and Communication Strategy, Nelumbo Technologies, Pakhtunkhwa Energy Development Organization, PECC1Vietnam, PECC3- Vietnam, PDP UTEK [M] SDN BHD, Power Engineering Consulting JSC 1, Power Projects Management Board No. 3, Private Financing Advisory Network, PwC Vietnam, Road Ahead Technologies Corp, Rodic Consultants, Rittmeyer, Samsung C&T Corporation Vietnam, Sarawak Energy Berhad, SEB Power, SEW-EURODRIVE, S5T, S5T JSC, SCI Consulting Joint Stock Company, Song Da 5 Joint Stock Company, Southern Institute of Water Resources, Sauer Compressor, SMEC, Soneji Engineering, Subsidiary of PLN Nusantara Renewables (Indonesia), Tacquet Industries, Tenaga Nasional Berhad, TCA Technology, TCA Vietnam Equipment & Technology, THDC, TNB Power Generation Sdn. Bhd. (Malaysia), TNB Renewables Sdn. Bhd., Truong Thanh Development and Construction Investment JSC, Van Halteren Technologies Boxtel B.V. (VHT), VIET LAO POWER COMPANY LIMITED, Vietnam Electricity Power Projects Management Board No. 3, Vietnam Electricity (EVN), Vietnam Initiative for Energy Transition, VIETSE, Voith, Voith Hydro, Vector Engineering Consultancy, Water and Power Department (Gilgit Baltistan, Pakistan), Water and Power Development Authority (Pakistan), WEG, Worthington Products Inc, Yaha Water Systems, and Zitron.

ORGANISERS

India Infrastructure Publishing is a company dedicated to providing information, analysis and insight on the infrastructure sectors in India, through magazines, conferences, newsletters, research reports and websites.

We have product and service offerings in the power, oil and gas, coal, roads and bridges, ports and shipping, airports, railways, urban mass transit, smart cities, water and waste, mining, construction, telecom and infrastructure finance sectors.

We publish six magazines – Indian Infrastructure, Power Line, Renewable Watch, tele.net, Smart Utilities and Gujarat Infrastructure. Each of the magazines is a market leader in its segment.

The group also publishes eight electronic weekly newsletters, over 30 annual research reports, 14 directories and six websites (www.indiainfamonitor.com, www.indiapowerregulation.com, www.tele.net.in and www.indianinfrastructure.com, www.renewablewatch.in, www.smartutilities.net.in), and organises around 50 conferences.

Power Line magazine (<https://powerline.net.in/>), a premiere magazine for the Indian power sector. It covers all segments of the sector – generation, transmission and distribution. It tracks key developments, analyses major trends, profiles noteworthy organisations, interviews top managers, features opinions of industry experts, tracks financing, covers technology developments, profiles people of interest, and provides key data and statistics.

Our clients include multinationals, top Indian corporates, commercial and investment banks, consulting companies, public sector companies, government agencies, multilateral agencies and legal firms. They include GE, ABB, Siemens, Ramboll, JCB, Toshiba, Hitachi, Gamesa, First Solar, BHEL, REC, NTPC, NHPC, Power Grid, Tata Power, Reliance Energy, Airtel, Vodafone, Sify, Nokia, Idea Cellular, Huawei, Indus Towers, American Tower Corporation, NHA, Adani Ports, JNPT, JSW, PMI, Dredging Corporation of India, Bentley, Autodesk, Tata Steel, Exide, IREDA, Cisco, HP, Tata Bluescope, Tata Projects, Case New Holland, Aveva, Caterpillar, L&T, Finolex, Sterlite, Airport Authority of India, CRISIL, E&Y, PwC, SAP, Oracle Utilities, Accenture, DuPont, IL&FS, ITNL, Citigroup, IFC, JICA, Japan Research Institute and The World Bank, among others.

Southeast Asia Infrastructure is dedicated to providing information, analysis and insight on infrastructure sectors through magazines, research reports, websites and conferences.

The parent company has nearly two-and-a-half decades of successful B2B media experience focused on infrastructure sectors with global and regional content. Across the world, we produce:

- 7 monthly, 13 weekly, 1 quarterly and 2 annual publications
- Close to 80 successful conferences every year
- Over 60 multi-client and custom research reports annually

REGlobal.co - The mission of REGlobal is to provide global, high-level analysis and perspective on issues related to renewable energy that are of interest and relevance to CXOs working with energy developers, electricity utilities, technology providers, investors, regulators, policymakers and other concerned organisations. It features an analysis of key trends and major developments, interviews with top managers and officials, opinion of leading experts and a rich knowledge centre. It covers a wide range of issues and topics including, but not limited to, markets, technology, policy and finance. The primary focus is on all forms of renewable energy, but it also examines trends related to other sources of energy when relevant.

DELEGATE FEE & DISCOUNT

Delegates	20% discount before July 24	Price after July 24
One Delegate	USD 960	USD 1,200
Two Delegates	USD 1,360	USD 1,700
Three Delegates	USD 1,760	USD 2,200
Four Delegates	USD 2,160	USD 2,700
Five Delegates	USD 2,560	USD 3,200
Special Category*	USD 400	USD 500

***There is a special low fee for hydro power producers, government authorities, electricity boards and generating organisations and academic institutions.**
(The registration includes breakfast, lunch, tea/coffee, and Wi-Fi internet access for both days of the conference).

REGISTRATION FORM

☐ I would like to register for the conference

☐ Please send me more information

NAME/DESIGNATION _____ COMPANY _____

MAILING ADDRESS _____

PHONE _____ MOBILE _____

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monish.grover@hydropowerasia.com

All credit card payments will be subject to standard credit card charges

2. Wire Transfer:

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Swift Code:	HSBCINBB

TERMS AND CONDITIONS

Payment Policy

- Full payment must be received prior to the conference.

Cancellations

- Cancellations received in writing **30 days** before the date of the conference will receive a full refund, minus a service charge/administration fee of USD 30.
- Substitutions/name changes are welcome at no extra charge. Please send these in writing at least two days prior to the conference.
- Powerline shall assume no liability whatsoever in case the event is postponed or cancelled due to a fortuitous event or unforeseen occurrence that renders the performance of this conference impracticable, illegal or impossible. For purpose of this clause, a fortuitous event shall include, but not be limited to: war, fire, labour strike, extreme weather or other emergency. India Infrastructure's responsibility is limited to return of the registration fee only and is not liable for any cost in relation to travel and accommodation.
- Please note that it may become necessary for reasons beyond the control of the organisers to make alterations to the content and timing of the programme or speakers.

CONTACT US

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