



VIRTUAL CONFERENCE

HYDRO POWER AFRICA

Progress, Potential, Outlook and Opportunities

December 10-11, 2020

"30% Early Bird" discount ends on November 3, 2020

"15% Early Bird" discount ends on November 25, 2020

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Global **Transmission** Report
Information and analysis on the global electricity transmission industry

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Hydro Power Africa

Mission

- Hydro power plays a significant role in Africa. Currently, it accounts for 17 per cent of the electricity generation in Africa on an average. In some countries, the share of hydro power in generation exceeds 80 per cent. The continent's current installed hydro capacity, including pumped storage, stands at about 37 GW. Hydro is the most important renewable power generation option today.
- With reliable and accessible electricity critical for Africa's social and economic development, hydro power development offers the most economical solution for large-scale renewable electricity generation in the continent. As the technology is mature, it has been recognised as an ideal source to increase supply to national grids at the lowest cost compared to other power generation expansion options, thereby reducing outages and costs. Further, with the growing emphasis on solar, a low cost but intermittent resource, the need for hydro as a balancing source is being recognised.
- A reinvigoration of efforts has been witnessed in recent years to integrate power systems and create regional power pools to export hydro power across countries to not only meet the demand of major load centres but also gain from lower electricity generation costs. The governments are increasingly interested in regional, bilateral and multilateral approaches that emphasise better coordination and pooling of their efforts to create more robust regional power grids.
- Small-hydro also holds significant potential in the African region. Decentralised, small-scale hydro power is being viewed as an effective solution in many countries to provide reliable and affordable electrification to remote communities that are not likely to be connected to the national grid in the foreseeable future. Meanwhile, new and promising solutions like solar-hydro hybrids are gaining attention.
- That said, hydro power development in Africa has been slow. The current hydro capacity is just 11 per cent of the technical potential of the continent.
- The impact of hydro power development on local populations and on water use and rights, as well as issues over biodiversity, has impacted large-scale hydro power development. Another issue in Africa has been the allocation of water rights to countries and different users within countries, which has led to delays in getting project approvals.
- Strained national resources, and political and regulatory challenges have impacted hydro power funding as well. The role of public financing supported by multilateral and bilateral sources, and more recently, the increased interest in the contribution of private sector investors has been crucial.
- These challenges notwithstanding, hydro is expected to continue to play a key role in meeting Africa's electricity needs. Its share in power generation is projected to increase to more than 23 per cent by 2040. Over the next decade, renewables are expected to account for 330 GW of the total capacity, with hydro contributing 100 GW by 2030.
- **The mission of this virtual conference is to analyse the key trends in the hydro power segment in Africa as well as assess the short-term and long-term outlook for the sector. The conference will also highlight opportunities, experiences, technologies and best practices in construction and O&M as well as showcase noteworthy projects.**

Target Audience

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

- Hydro power projects across Africa
- Electric & Hydro Power Utilities
- Small Hydro Power Developers
- O&M Service Providers
- Government & Regulatory Agencies
- Power Trading Organisations
- Renewable Energy Organisations
- EPC Contractors
- Renovation & Modernisation service organisations
- Financial institutions
- Technology providers
- Equipment manufacturers
- Consultancy organisations
- Etc.

AGENDA (Tentative)

KEY TRENDS AND OUTLOOK

- ❖ What have been the key trends in hydro power capacity installation, generation, etc.?
- ❖ What have been the recent developments?
- ❖ What are the issues and challenges? What is the outlook?

COUNTRY PLANS AND PERSPECTIVE

- ❖ What have been the trends in the development of hydro power?
- ❖ What are the initiatives being taken to promote hydro?
- ❖ What is the upcoming capacity?
- ❖ What are the issues and challenges? What is the future outlook?

INVESTMENT AND FINANCING

- ❖ What has been the perspective of investors and lenders on hydro power?
- ❖ What are their key areas of concern?
- ❖ What are the opportunities? What is the outlook?

PROMISE OF TECHNOLOGY

- ❖ What have been the recent advances in hydro power turbine technologies?
- ❖ What are the new and promising technology innovations?
- ❖ What has been the industry experience and uptake?

DIGITAL SOLUTIONS FOR HYDRO POWER PLANTS

- ❖ What are the benefits of digital solutions for hydro power projects?
- ❖ What are the new and promising digital solutions?
- ❖ What has been the experience?

PUMPED STORAGE POTENTIAL

- ❖ What has been the trend in PSP development?
- ❖ What is the potential of pumped storage projects?
- ❖ What has been the experience? What have been the issues and concerns?

REGIONAL POWER TRADING AND CROSS-BORDER COLLABORATION

- ❖ What is the potential of cross-border hydro power trading?
- ❖ What have been the trends so far?
- ❖ What are the issues and concerns? What is the outlook?

TRANSMISSION INFRASTRUCTURE REQUIREMENTS

- ❖ What are the transmission infrastructure requirements of new and upcoming hydro power projects?
- ❖ What has been the progress so far?
- ❖ What are the issues and concerns? What is the way forward?

PROMISE OF SMALL HYDRO

- ❖ What have been the key trends in the development of small-hydro power projects?
- ❖ What are the issues and challenges?
- ❖ What is the outlook for the segment? What are the opportunities?

SOLAR-HYDRO HYBRIDS

- ❖ What are the potential advantages of solar-hydro hybrid plants?
- ❖ What are the issues and concerns?
- ❖ What has been the experience so far?

FOCUS ON TUNNELS AND UNDERGROUND WORKS

- ❖ What are the key challenges involved in tunnelling and underground works?
- ❖ What have been the advancements in technologies and methods in this area?
- ❖ What are some of the noteworthy projects?

O&M BEST PRACTICES

- ❖ What are the O&M-related challenges faced by hydro power projects?
- ❖ What are the best O&M practices?
- ❖ What are the new and advanced tools and solutions available for O&M?

CIVIL ENGINEERING, DESIGN AND CONSTRUCTION

- ❖ What are the challenges in civil engineering works for hydro projects?
- ❖ What are the best practices in design and construction?
- ❖ What has been the industry experience?

FOCUS ON R&M

- ❖ What are the renovation and modernisation requirements of existing hydro projects?
- ❖ What has been the experience so far?
- ❖ What are the technology upgrades and solutions that hydro power plants can consider in implementing R&M?

PROJECT SHOWCASE AND CASE STUDIES

- ❖ What have been some of the notable operational/under-construction hydro power projects?
- ❖ What are their innovative features?
- ❖ What has been the execution experience and challenges faced? What were the benefits delivered?

ABOUT THE ORGANISER

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

We have product and service offerings in the power, oil & gas, coal, roads & bridges, ports & shipping, airports, railways, urban mass transit, smart cities, water & 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, more than 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 close to 50 conferences.

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, NHAI, 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.

Global Transmission Research is a leading provider of information and analysis on the global electricity transmission industry. We publish newsletters and market intelligence reports, offer custom research and advisory services, and organise thematic conferences on crucial and topical issues relevant to the industry.

Our leading products – **Global Transmission Report** (a monthly newsletter), **Global Transmission Weekly** (a weekly update), and **www.globaltransmission.info** (website) – keep you informed on key developments, trends and issues in the industry. Our reports provide the latest data, insights and analysis on the transmission industry in over 100 countries to ensure reliable and actionable research.

Power Line magazine (<https://powerline.net.in/>) is 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.

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 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 when relevant it also examines trends related to other sources of energy.

PARTICIPANTS IN OUR HYDROPOWER CONFERENCE

We had over 100 plus organisations with 180 plus participants at our successfully concluded “Hydro Power in Asia” conference held on August 26-27. The participants included organisations like: **Accelerating Investment and Infrastructure in Nepal - (AIIN)**, AECOM, Alampart, Alternergy, ANDRITZ Hydro, Asian Infrastructure Investment Bank, AIB, ATB Riva Calzoni, Bajaj Reinforcement LLP, Bhutan Automation & Engineering, Bhutan Electricity Authority, Capital Region Development Authority, Carpi India Waterproofing Specialists, CARPI TECH BV AMSTERDAM BALERNA BRANCH, CEPAD hydro Consultants, Coastal Projects, Deloitte Consulting, Electricity Generation Authority of Thailand, Fluid Logic Systems Pvt. Ltd. (JV company of VOITH TURBO Germany), FMG Laos, GE Power, GE Renewable Energy, Gilbert Gilkes & Gordon, Global Business Power Corp.GMR Energy, Greenko Budhil Hydro Power, Hydro Tasmania, Hydropower Investment and Development Company - Nepal, Hyundai Engineering, IFC, INDAR ELECTRIC, S.L., Industrial Processors & Metallizers (P) Ltd, International Energy Agency (IEA) Hydropower group, J.kumar-CRTG infraprojects, Jacobs Engineering Group Malaysia Sdn Bhd, Jade Consult, Klohn Crippen Berger, KPMG, LEA Associates South Asia, Lombardi Engineering Makarigad Hydro Power, Mekong River Commission, Ministry of Energy, water Resources and Irrigation- Nepal, MYK Arment, NEEPCO (Kameng hydro project), Nelumbo Icona Controls, Nepal Engineering Council, Nepal Power Exchange Limited, Newjec, Nexwave Technologies, NHPC, North Hydro and Engineering, Nupche Likhu Hydropower Project, Paschim Hydro, Premier Electric Marketing LLP, PT LAPI ITB Joint Project Freeport Indonesia Company, PT POSO ENERGY, PT. Adimitra Hidro Nusantara, PT. Sumberdaya Sewatama (part of Tiara Marga Trakindo Group), PwC, RADD Engineering Analytics, San Miguel Global Power Corporation, Sanima Hydro And Engineering, Sarawak Energy Berhad, Siemens, Sipradi Trading, SMEC India, Snow Fountain Consultants, Soilex Consultants, Solar Energy Research Institute of Singapore (SERIS), Statkraft, Summit Bibiyana Power Company, Super Dordi Hydro Electric Project Kha, Syarikat SESCO Berhad, Symantec Technology, Terregra Asia energy Tbk Group, Tehri Hydro Development Corporation, Tenaga Nasional Berhad, TRACTEBEL, UJVNL, UNIDO, Vidullanka Energy, Vilas Patil & Associate, Voith Hydro, Wells Engineering, LLC, World Bank Group, Worthington Products, Inc, WWS Wasserkraft GmbH, etc.

DELEGATE FEE

	Price before November 3, 2020	Price before November 25, 2020	Standard price
1 Logins	USD 175	USD 213	USD 250
2-3 Logins	USD 280	USD 340	USD 400
4-5 Logins	USD 385	USD 468	USD 550
6-9 Logins	USD 490	USD 595	USD 700
10-20 Logins	USD 595	USD 723	USD 850

Registrations for the African government agencies, utilities and regulatory authorities is complimentary* for the conference.

*Limited to up to 5 registrations per organization.

REGISTRATION FORM

I would like to register for the conference

Please send me more information

NAME/DESIGNATION _____ COMPANY _____

MAILING ADDRESS _____

PHONE _____ MOBILE _____

FAX _____ EMAIL _____

PAYMENT OPTIONS

1. To make payments by credit card, please send an email on mansi.taneja@hydroafrica2020.com

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

2. Wire Transfer:

Beneficiary: India Infrastructure Publishing Private Limited
Bank Name: The Hongkong and Shanghai Banking Corporation Ltd
Bank Address: R-47, Greater Kailash – 1, New Delhi - 110048
Bank Account No: 094179587002
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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