

PRESENTED BY

MONTHLY  
**ENERGY  
UPDATE**  
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IN COLLABORATION WITH



# INTERNATIONAL CONFERENCE ON **HYDROPOWER** PAKISTAN **2021**

CHALLENGES | PROGRESS | PROSPERITY

October 27, 2021 - Serena Hotel, Islamabad



## INDUSTRY OVERVIEW:

**D**evelopment of Hydro Power Plant (HPP) has always been big challenge due to its complexity, gestation period and inherent risks associated with it unlike developments of any other fossil fuels or wind & solar based power plants. Globally, China takes the lead in development of world mega hydroelectric dam. It consists of world largest power station having 22,500 MW installed capacity with annual production nearly reached 112 TWh in 2020. China remains the world leader in respect of total hydropower installed capacity with over 370 GW; thereafter Brazil, USA, Canada and India lead in world's hydro power plants. The world hydropower installed capacity reached 1330GW in 2020 as generation hit a record 4,306 (TWh) approx.

Pakistan has approx. 64GW of hydropower potential but due to non-hydroelectric development in the country during the last 4-decades, it has yet reached 1 GW. But now, with the arrival of present government, multiple developments of various dams and power stations are on full-swing, these included Diamir-Basha, Mohmand, Dasu, Tarbela 5th Extn etc. Further, under Game Changer's CPEC Projects many other hydro power plants are already being built KPK, Punjab, Azad Kashmir and Gilgit Baltistan. It's imperative that the situation of water storage, flood tackling and power generation through cheap and clean energy would make the economy of Pakistan better than ever.

To meet the projects financing demand of other HPPs in Pakistan under Public-Private-Partnership (PPP), recently WAPDA has successfully launched Green Eurobond (Indus bond). Moreover, with rapid developments of 1000 Mini-Macro Power Projects (85MW) in KPK alone, PPIB and other Govt Institutions are playing pivotal role in attracting IPPs, Private Sector and Financing Institutions for sustainable, greener and prosper Pakistan.

**OBJECTIVES**

To learn about latest developments and modern techniques; about how hydro power stations that are being built Worldwide and in Pakistan



To learn directly from national & international Projects Consultants about Challenges in meeting the deadlines to achieve CODs



To gain substantial knowledge about Government's ARE Policy 2020 vis-a-viz Water & Power



To foster Renewable Energy Resources in mitigating the Climate Change



To learn about latest developments and modern techniques; about how hydro power

**THEMATIC SESSIONS****01**

Ceremonial with Keynote Addresses on reaping benefits from Hydroelectric Dams

**02**

HPPs Challenges, Sustainability and Upgradation to Generate-Transmit-Dispatch (GTD) of clean and cheap energy to the consumers

**03**

Energy Storage, Integrated Energy (Solar & Wind), Transmission & Dispatch

**04**

Project Financing, Co-Financing Opportunities to get best ROIs

**05**

Concluding Remarks with Conference Recommendations



## TOPICS

- 💧 Government ARE Policy, Guarantees & ROIs
- 💧 Design & Construction: Civil Works & Project Safety
- 💧 Hydropower, an unmatched booster for local construction industry
- 💧 Modernize Hydro Power Stations
- 💧 Mitigating Climate Change with Dams
- 💧 Investments, Financing and Co-financing Opportunities
- 💧 Hydro Hybrid: Floating Solar Energy Prospects or go for Wind
- 💧 Pumped Storage: Energy storage technologies
- 💧 Asset Management: Integrity, O&M and Reliability
- 💧 Small Hydro Power Stations for Sustainable Villages
- 💧 Social & Environmental Impacts on Communities due to displacements Smart & Micro Grids and Transmission Challenges
- 💧 Asset Management: Integrity, O&M and Reliability

## OUTCOMES

- Support the initiatives to avail cheapest and sustainable energy resource
- Collaborate and develop Partnerships with Hydro Experts, Academia and Financing
- Submit the Conference Multiple Sessions' Outcomes to the authorities concerned for necessary actions, corrective decisions-making and avail other alternative opportunities



## CONFERENCE PARTICIPANTS

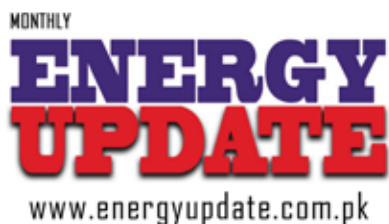
This interactive conference will attract around 250 participants from national and international Renewable Energy, Water & Power Industries i.e. Foreign Delegates, Consultants, Investors & Financers, Banks & DFIs, Research Labs, OEMs Suppliers, O&M Contractors, Project Planners, Energy Experts, Researchers, Government Departments, Academia and Media.

### EVENT ORGANIZER

Monthly Energy Update - Pakistan's premier monthly magazine dedicated to the Energy Sector, Power Generation, Oil & Gas, Alternate & Renewal Energy, Environment and Engineering. It was launched to fill the niche, as this important and vibrant sector lacked a dedicated publication, and it is the stated aim of the magazine to become the 'voice of industry'. The magazine has completed its journey of 15-years of successful publications.

The Team Energy Update is also actively engaged in providing platforms for Energy Industry by organizing and managing various successful events in recent past like Solar Clean Energy Pakistan, Conferences on LNG and CNG-CONEX, LPG ExpoCon, Wind Energy Summit as well as Webinars on Renewable Energy. These interactive events were largely attended by local and international delegates and government officials.

ORGANIZED BY



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# CONFERENCE REGISTRATION FORM

## A-REGISTRANT INFORMATION

**Name of Participant(s):**

1. \_\_\_\_\_ 2. \_\_\_\_\_  
3. \_\_\_\_\_ 4. \_\_\_\_\_

**Company:** \_\_\_\_\_**Address:** \_\_\_\_\_**Telephone:** \_\_\_\_\_ **Email:** \_\_\_\_\_**Participation fee:** \_\_\_\_\_**Payment through online:** \_\_\_\_\_

\_\_\_\_\_  
**Authorised signature  
& Company seal**

## CONFERENCE FEES

*(Fee included networking tea, food and certificate)*


@ PKR 25,000 +Taxes per participant  
(1-3 persons)


@ PKR 20,000 +Taxes per participant  
(Group of 4 or above persons)

## ACCOUNT DETAILS

*Payable in advance via Online Transfer:***Account Title: Monthly Energy Update****MCB Bank Limited****1422 Mehdi Tower Branch,****Shahra-e-Faisal, Karachi****IBAN: PK66 MUCB 1029 0940 7100 3748**

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PRIVATE POWER & INFRASTRUCTURE BOARD  
MINISTRY OF ENERGY (POWER DIVISION)  
GOVERNMENT OF PAKISTAN

No. 1(101) PPIB-Misc./21/PRJ/O-56239

<sup>56</sup>  
31 August 2021

Mr. M. Naeem Qureshi  
Managing Editor – Energy Update  
309, Hotel Regent Plaza  
Shahrah-e-Faisal, Karachi

Subject: CONFERENCE ON HYDROPOWER IN PAKISTAN 2021

Reference is made to your request received via email dated 24<sup>th</sup> August 2021 regarding the subject matter.

2. PPIB appreciates continued interest of the Monthly Energy Update team about focusing prospects, challenges & prospects of Pakistan's hydropower sector by providing platform to all concerned and relevant entities & expertise of the sector for discussions & deliberations to achieve harmony for smooth, speedy and sustainable development of indigenous, environmental friendly electricity source of Pakistan.

3. PPIB will be pleased to support and collaborate the subject Conference on Hydropower in Pakistan 2021 being organized by your side in Islamabad. For any further assistance/advice to make the conference meaningful, following officials of PPIB may be consulted:

- (i) Engr. Dr. Munawar Iqbal, Director General (Hydropower)
- (ii) Engr. Faisal Sharif Wattoo, Director (Project Appraisal)

With regards,

  
(Shah Jahan Mirza)  
Managing Director