

**CEO's Roundtable Discussion with**  
**Shri R K Singh, Hon'ble Union Minister for Power,**  
**New & Renewable Energy, Govt of India**  
at  
**The Annual Conference 2023**  
**Hydropower & Pumped Storage - Critical for Grid Resilience**

**August 29, 2023 | New Delhi**

**The Associated Chambers of Commerce and Industry of India**

Follow us on



**A**SSOCHAM has been strongly advocating the need for Development of Hydropower Plants in India in the backdrop of National Hydropower Policy notified by the Union Cabinet on March 8, 2019.

Rapid expansion of solar and wind generation capacities is a national priority to serve the broader perspective of building a sustainable green economy. With India aiming towards 50% generation capacity from non-fossil fuel sources by 2030 as part of its international commitments, the requirement of flexible resources like hydropower and storage has gained significance in firming up the Variable RE Sources (VRES). National Electricity Plan (NEP) has estimated that by 2032, India will require additional 17 GW of hydro capacity, ~27GW of pumped storage capacity and ~47 GW of battery storage systems in order to integrate 500 GW of renewables in the grid. The hydro industry believes that the initiatives taken and support being provided by both central and state governments will need further impetus to ensure that the targets set under NEP are met and a vibrant hydro and pumped storage sector is able to serve the evolving load profile and provide the grid support services as will be necessitated by system requirements.

Energy supplies from VRES are both intermittent and uncertain, being dependent on the time of the day, seasons, and the vagaries of weather. Deploying a systematic approach to expand the hydel and storage capacities, which will enable firming up these supplies and their large-scale integration into the power grid, will be a critical step in developing India's energy basket of the future that will meet the following considerations:

- a. Energy Transition Considerations:** India is progressing towards a clean energy transition, guided by the Nationally Determined Contribution (NDC) targets, to reduce the emission intensity of its Gross Domestic Product (GDP) by 45% by 2030, achieve 50% of installed generation capacity from non-fossil fuel sources by 2030, meet 50% of its energy from RE by 2030 and secure net zero carbon emissions by 2070. Development of hydropower and PSPs is of paramount importance for meeting seasonal variations in load, serving peak demand as well as providing both inertial support and balancing power to the grid.. With its ability for storing a large amount of energy, frequent starts/stops, and faster ramp-ups/ramp-downs, hydropower and PSPs are ideally suited to address the dynamic supply and demand and help achieve load-generation balance.
- b. Ancillary Services Considerations:** Curtailment of wind and solar power is already being witnessed although they presently constitute only around 25% of total energy capacity and have a generation share of ~11%. With higher ingress of VREs and their anticipated share of >30% in power generation in the next decade, the need for curtailment will be more acute if there is insufficient flexibility and storage for providing grid support services. Hydropower and PSPs present a viable solution to the complexity of integration of large VRE capacities and are well-equipped to act as back-up or spinning reserves, undertake part-load operations and fast ramping to meet system imbalances and provide primary response services for frequency control. Specifically, PSPs can store a large amount of energy during off-peak hours and discharge in peak-hours, thereby helping reduce RE curtailment and improve the capacity utilisation of VREs; as contrasted to battery storage systems which are yet to be cost-competitive, PSPs offer a viable solution to long duration energy storage that can contribute to both grid stability and resilience.

In such background and to address the policy, regulatory and market contexts, **ASSOCHAM is hosting annual event themed as 'Hydropower & Pumped Storage - Critical for Grid Resilience'**.

## Themes For Discussion

---

### ❖ Policy Framework and Rationalisation across Hydro Rich States

- ❖ Genesis of Project viability
- ❖ Saleability of hydropower
- ❖ HPO/HEC Compliance

### ❖ Pumped Storage Hydro

- ❖ Benchmark rate for power sale
- ❖ Contours of Energy Storage Policy, Energy Storage Obligation compliance and PSP context
- ❖ Guidelines for PSP project allocations and SBDs
- ❖ Potential of off-river pumped storage capacity additions vis-à-vis NEP targets

### ❖ Framing the Policy for Hydro Power Viability

- ❖ Normative RoE and O&M costs
- ❖ VGF support
- ❖ Optimum planning of transmission costs
- ❖ Level playing field with other RE resource
- ❖ Impediments to implementation of HPO / HEC

### ❖ Generating Value Streams for Hydro Power

- ❖ Market modelling and phasing in of hydro-enabled grid support services
- ❖ Regulatory sand box of market participation of hydro resources
- ❖ Feasibility of Capacity Contracts and part load operations of hydro power
- ❖ Prospects of VPPAs and CfD mechanism



## CEO's Roundtable Discussion with Hon'ble Union Minister for Power, New & Renewable Energy and Senior Government Officials

05:00 pm onwards

## High Profile Government Panel

---

- ⊙ Hon'ble Union Minister for Power, New & Renewable Energy, Government of India
- ⊙ Secretary to Government of India, Ministry of Power
- ⊙ Joint Secretary Hydro to Government of India, Ministry of Power
- ⊙ Economic Advisor to Government of India, Ministry of Power
- ⊙ Senior Officials from PSUs & Regulatory Bodies

# Glimpses of Past Roundtable Discussions

With

## SHRI R.K.SINGH

Hon'ble Minister of State (I/C) for Power, New & Renewable Energy

New Delhi

29<sup>th</sup> November, 2017



Roundtable Discussion on The need of Hydro Power in India with Shri R.K. Singh, Hon'ble Minister for Power, New & Renewable Energy November 29, 2017



Roundtable Discussion on Power with Shri R. K. Singh, Hon'ble Union Minister for Power, New & Renewable Energy, December 18, 2018



Discussion on Exploring Opportunities in Hydropower Sector India-Nepal Cooperation July 7, 2022



Unlock the Value of Hydropower An Interactive Session with Shri Aniruddha Kumar, Joint Secretary (Hydro), Ministry of Power, Government of India April 30, 2019



Conference Hydropower @ Crossroads Tapping the Untapped May 3, 2016

# SPONSORSHIP OPPORTUNITIES

## Title Partner: Rs. 7,00,000/-

- ⊙ Prominent Display of Company Logo under 'Title Category' on the Backdrop
- ⊙ CEO's Interaction with Hon'ble Union Minister and other senior officials of the Govt.
- ⊙ 3-minute corporate video slot
- ⊙ Logo visibility in all India Adv. In Leading News Daily
- ⊙ Logo Visibility in Marketing Flyers and social media
- ⊙ Corporate Literature to be included in the delegate kit.
- ⊙ 3 Corporate Standees at the Venue
- ⊙ 5 Complimentary delegate passes to attend the event.
- ⊙ Acknowledgement of support on 'Thank You Panel'.

\*+18% GST

## Platinum Partner: Rs. 5,00,000/-

- ⊙ Prominent Display of Company Logo under 'Platinum Category' on the backdrop
- ⊙ CEO's Interaction with Hon'ble Union Minister and other senior officials of the Govt.
- ⊙ 3 minute corporate video slot
- ⊙ Logo visibility in all India Ad. In Leading News daily
- ⊙ Logo Visibility in Marketing Flyers and social media
- ⊙ 2 Corporate Standees at the Venue
- ⊙ 4 Complimentary delegate passes
- ⊙ Acknowledgement of support on 'Thank You Panel'.

\*+18% GST

## Gold Partner: Rs. 3,00,000/-

- ⊙ Prominent Display of Company Logo under 'Gold Category' on the backdrop
- ⊙ 3 minute corporate video slot
- ⊙ Logo visibility in all India Ad. In Leading News daily
- ⊙ Logo Visibility in Marketing Flyers and social media
- ⊙ 1 Corporate Standee at the Venue
- ⊙ 4 Complimentary delegate passes
- ⊙ Acknowledgement of support on 'Thank You Panel'.

\*+18% GST

**Delegate Kit Sponsorship**  
Rs. 2,50,000/-

**Corporate Gifting**  
Rs. 2,00,000/-

**Lanyard Sponsorship**  
Rs. 1,50,000/-

\*+18% GST

**For Partnership/ Sponsorship, please contact:**

**Vikash Jaiswal**

E: vikash.jaiswal@assochem.com  
M: 88004 83640

**Sanchit Kesharwani**

E: sanchit.kesharwani@assochem.com  
M: 99994 57100

**Aastha Shah**

E: aastha.shah@assochem.com  
M: 9999939474



**The Associated Chambers of Commerce and Industry of India**

4th Floor, YMCA Cultural Centre and Library Building, 01, Jai Singh Road, New Delhi - 110001, India

Tel: 011-46550555 (Hunting Line) • 011-46550530 • Fax: 011-23017008, 23017009 • www.assochem.org

Follow us on:     