



Conference
Renewable Energy: Scheduling, Forecasting,
Grid Integration and Energy Storage

August 21, 2019 at Ball Room, Hotel Imperial, Janpath New Delhi

Programme

9.00 am. Registration Tea/ Coffee

9.30 am. Introductory Remarks

Shri Sagar Adani, Chairman, ASSOCHAM'S National Council on New & Renewable Energy and Executive Director, Adani Green Energy

9.40 am. Special address:

Shri Praveen Kumar IAS, Addl Secretary to the Govt of India
Ministry of New & Renewable Energy

9.55 am. Session 1: Weather & Energy Forecasting and its Challenges

Session Chairman: Shri M Mohapatra, Director General Meteorology, India Meteorological Department

Topics to be discussed:

- Methodologies, use cases, accuracy & limitations
- Challenges – Sensors, technology, seasonal variation.
- Cutting edge developments in weather & energy forecasting
(Improved forecasting accuracies through disruptive technologies)
(Internationally adopted best practices)

Shared Perspective

- *Mathematical Model for Weather and Energy Forecasting:* Shri Jatin Singh Managing Director, Skymet Weather
- *Challenges :* Shri Vishal Pandya, Co-Founder REConnect Energy Solutions
- *Cutting Edge Technology – Intl Best practices*
 - Mr. EmreUraz, Head South Asian Business Enercast
 - Mr. Ayumu Suzuki, Head Tech Division, DNV GL
- *Practical experience by generators :* Shri Utkarsh Rastogi, Asst. Manager Adani technology

11.00 am. Session 2: Regulatory Issues and Developers Experience in F&S

Session Chairman: Shri R.K. Nath Former Chairman CEA & Ex-Officio Secretary, Gol

Topics to be discussed

- Regulatory issues and key challenges -Differences in FOR, CERC and SERCs Regulations.
- Distribution Reforms
- Accurate forecasting, unviable within existing regulatory framework
- Monetary impact
- Shared experience/ best practices

Panelist

- Shri Pankaj Batra Member CEA
- Shri I S Jha, Member CERC (Former PGCIL)
- Shri R.V. Shahi Former Secretary, MOP

- Shri P.J. Thakkar, Member Technical GERC
- Dr. Tarun Mathur Director Technical RERC
- Shri Jayant Parimal CEO Adani Green Energy
- Shri Parag Sharma, Chief operating officer, Renew Power
- Shri Anil Chutani, Vice President ACME

12.10 pm Tea

12:25 pm Session 3: Challenges Faced by SLDCs/RLDCs in Grid Balancing
Session Chairman: Shri S.K Sonnee, Advisor POSOCO(Shared perspective)

Special Address - Ensuring Reliable Supply (10 min)

Mr. Bill Magness President and CEO (Electric Reliability Council of Texas)

Issues to be discussed

- Methodology followed in Renewable integration considering their must run status.
- Issues and challenges (Backdowns/Curtailments)
- Commercial Mechanism- Zero DSM account.
- Operational cost minimization

Panelist

- Shri B.B.Mehta, Chief Engineer, Gujarat SLDC
- Shri M.M. Ranwa Power Purchase Cell (Jodhpur, Ajmer, Jaipur), Rajasthan SDLC
- Mr.K.V.S Baba CMD, Power System Operation Corporation (POSOCO)
- Shri S.S.Barpanda Executive Director Northern Regional Load Despatch Center (NRLDC)
- Shri V.K. Shrivastava, Executive Director Western Regional Load Despatch Center (WRLDC)
- Shri Rajesh K Mediratta Director BD Indian Energy Exchange Ltd.
- Shri Abhimanyu Gartia Executive Director, SRLDC

1.35 pm Lunch

2:15 pm Session 4: Large Scale Renewable Integration
Session Chairman: Shri Rakesh Nath, IEGC Chairman

Special Guest Address - Integration of Renewables in to the grid (10 min)

Mr. Sudeen G Kelly (former FERC Chairman)

Issues to be discussed

- Grid management : Impact of RE source on Indian Electricity grid – current and future
- Technology for integration of Renewable Generation.
- Balancing sources and planning
- Production cost optimization for large penetration of RE.
- Global practices on Renewable Grid Integration
- Market mechanism
- Transmission Planning for RE Zones

Panelist

- Shri S.R. Narasimhan, Director Systems Operation, POSOCO
- Shri Subhir Sen, POSOCCO
- Shri Dr. S Selva Kumar, Managing Director, KPTCL
- Shri BB Chauhan, Managing Director, GETCO
- Shri Rajesh K Mediratta Director BD Indian Energy Exchange Ltd.
- Shri Vineet Mittal, Managing Director, Avaada
- Shri Sunil Jain CEO, Hero Future Energy

- Shri Naresh Panchal, VP and Head, Suzlon Energy
- Shri V.S.Venkateshan ADDL GM NTPC
- Shri Saurabh Singhal, Director Auctus Advisors
- Ms. Ritu Lal, Sr. VP & Head Institutional Relations, Amplus Solar
- Representative - PGCIL

3.30 pm Session 5: Energy storage

Session Chairman: Shri Anil Shrivastava IAS Retd., Principal Advisor, Niti Aayog

Shared perspective : Government plans

Issues to be discussed

- Large scale battery storage for grid stability
- Challenges and Storage Technology Costs
- Pump Storage scheme – Its importance in grid stability with large RE fields.
- Govt interventions required to incentivize energy storage

Panelist

- Shri A.K. Singh ED RE & Consultancy Division NHPC
- Dr. Ajay Mathur, Director General TERI
- Shri Jitendra Kulkarni VP- Innovation SBG Energy
- Shri George John, India Representative TESLA
- Shri Sunil Rathi, Director, Waaree Energy Group
- Shri V.S.Sharma Head Energy, Steag Energy
- Mr. Adarsh Das CEO Sun Source Energy
- Mr. Kanv Garg, Director, E&Y
- Shri Nisheet Srivastava, Sector Specialist, KFW

4.40 pm. Tea

5.00 pm. Valedictory Session/ Plenary Session

5.00 pm. Welcome address by ASSOCHAM President
Shri Sagar Adani, Chairman, ASSOCHAM'S National Council on New & Renewable Energy and Executive Director, Adani Green Energy

5.05 pm. Summary of action points of the conference and way forward
Shri Jayant Parimal CE Adani Green Energy

5.15 pm. Address by Guest of Honours
Shri P.K. Pujari, Chairman CERC & Shri Anand Kumar IAS Secretary to the Govt of India, Ministry of New & Renewable Energy

5.35 pm Keynote Address by Chief Guest
Shri R.K. Singh Honble Minister of State (I/C/) for Power, New & Renewable Energy

5.50 pm. Vote of Thanks
Shri Saurabh Sanyal, Deputy Secretary General, ASSOCHAM

6.00 pm Close