





Soft Landings for Renewable Energy Integration through Balancing Technologies

Date: 12th June, 2019

Venue: Shangri-La's - Eros Hotel, Ashoka Road, New Delhi, India

Time	Details
09:30-10:00	Delegate Registration
10:00-11:00	Inaugural Session
	- Welcome Address : Prof. Jyoti K Parikh, Executive Director, IRADe
	- Special Remarks : Ms Nandita Baruah, Country Representative, TAF
	- Presentation of key findings from PHES Roundtable dialogues: Shri V K Agrawal, Technical Director, IRADe
	- Address by Dignitaries
	Shri Aniruddha Kumar, JS (Hydro), MoP, GoI
	Shri Rod Hilton, Australia's Deputy High Commissioner to India
	Shri K V S Baba, Chairman and Managing Director, POSOCO
	- Vote of Thanks
11:30-13.00	Session 1: Renewable Energy Integration through Balancing Technologies

This session will cover broadly the following topics:

- Absorption of large RE into the Indian grid: Broad approach and strategies
- Towards grid balancing: Policy and regulatory frameworks in the Indian Power System
- Experiences from the Indian Grid towards flexibility: Demand side management, generation flexibility, grid infrastructure and storage
- Energy storage technologies and their techno-commercial assessment
- Pumped hydro energy storage (PHES) a critical choice towards grid balancing
- Pumped hydro energy storage (PHES) roll out Challenges, possible business models and way forward

Session Chair: Prof. Kirit Parikh: Chairman, IRADe & Former Member Planning Commission, GoI
Session Co-Chair: Shri P K Shukla, Chief Engineer (Hydro), CEA







	The Asia Foundation
	Panelists:
	Dr. Anoop Singh, Centre for Energy Regulation (CER), IIT Kanpur
	Shri S C Shrivastava, Chief (Engineering), CERC
	Shri S R Narasimhan, Director (System Operation), POSOCO
	Shri Probodh Mallick, Sr. Advisor (Power), Marubeni Corporation Project Office
	Prof. Andrew Blakers, ANU, Australia
	Prof. Arun Kumar, IIT Roorkee
14.00-15.00	Session 2: Pumped Energy Survey Advances and Presentation of the PHES Atlas - Professor Andrew Blakers, ANU, Australia
 Storage options and capabilities towards grid balancing PHES technologies Off River PHES Survey in South Asia Presentation of Global PHES Atlas Experiences of deployment of Wind, Solar & PHES in Australia 	
15.00-16.00	Technical Session - Development of Hydro Power in South Asia Region towards Energy Sustainability and Renewable Energy Integration

This session will cover broadly the following key areas:

- Growth and deployment of Hydro Resources in South Asian Regional Grid : A giant step towards optimising Cross Border flows and grid balancing
- Regional Perspectives: Hydro Power for Bhutan's Renewable Energy Ambitions
- Regional Perspectives: Hydro Energy in Nepal
- Regional Perspectives: Targeting 100% RE through hydro power in Sri Lanka
- Regional Perspectives: Prospects for Hydro and renewable power resources in Bangladesh

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	Session Chair: Shri Brian Dawson, Climate Change and Energy Advisor, AusAID
	Panellists:
	Shri Pankaj Batra, Project Director, SARI/EI/IRADe
	Representative, Bhutan
	Representative, Nepal Electricity Authority
	Representative, Ceylon Electricity Board
	Representative, Bangladesh
16:00-16:15	Concluding Remarks
	Prof. Kirit Parikh: Chairman, IRADe
	Shri S K Soonee, Advisor, POSOCO
	Prof. Arun Kumar, IIT, Roorkee
11:00 - 11:20: (Group photograph and tea break: 13:00 – 14:00: Lunch break: 16:15 – 16:30 - Tea