



**Northern Regional Capacity Building
Workshop for State Stakeholders
on
Resilient, Inclusive, & Environmentally
Sustainable Power Sector (Including Laws, Rules,
Guidelines, Regulations related thereto)**

Date: July 2nd & 3rd 2024

Venue: Hotel Renaissance , Lucknow (U.P.)

Organised by :

IRADe

**C-80, Shivalik ,
Malviya Nagar, New Delhi
www.irade.org**

CEA

**Sewa Bhawan,
R. K. Puram, New Delhi,
www.cea.nic.in**



Agenda

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Date: July 2nd & 3rd 2024, Tuesday & Wednesday

Day 1 – Tuesday, 2nd July 2024

09.30 -10.00 Hrs.	Registration
10.00 -11.00 Hrs.	Inaugural Session
10.00 -10.05 Hrs.	Welcome Address by Dr. Jyoti Parikh , Executive Director, IRADe
10.05 – 10.10 Hrs.	Context Setting by Shri Pankaj Batra , Senior Advisor, IRADe & Ex Chairperson, CEA
10.10 – 10.15 Hrs.	Introductory Remarks by Dr. Kirit Parikh , Chairman, IRADe
10.15 - 10.25 Hrs.	Special Remarks by Guest of Honour, Shri Ashish Kumar Goel (IAS) , Chairman, Uttar Pradesh Power Corporation Ltd. (UPPCL), Government of U.P.
10.25 - 10.35 Hrs.	Special Remarks by Guest of Honour, Shri Arvind Kumar , Chairperson, UPERC, Govt. of UP
10.35 – 10.45 Hrs.	Special Remarks by Guest of Honour, Shri Narendra Bhooshan , Principal Secretary, Department of Additional Sources of Energy, Government of Uttar Pradesh
10.45 - 10.55 Hrs.	Inaugural Address by Chief Guest, Shri. Ghanshyam Prasad , Chairperson, CEA/Member CEA,
10.55 -11.00 Hrs.	Vote of thanks by Ms. Navpreet Saini , Senior Research Analyst, IRADe
11.00-11.20 Hrs	Group Photograph and Tea
11.20-12.00 Hrs.	Presentation on Outline of Laws, Rules, Guidelines, Regulations of the Government of India/CERC – Shri Pankaj Batra , Senior Advisor, IRADe & Ex-Chairperson, CEA
12.00-12.30 Hrs.	Roundtable of Secretaries on Capacity Building Requirements for Northern Region’s State
12.30 -13.00 Hrs.	Roundtable of Regulators on Capacity Building Requirements for Northern Region’s State
13.00 -13.30 Hrs.	Roundtable of Renewable Energy Development Agencies on Capacity Building Requirements for Northern Region’s State
13.30 -14.30 Hrs.	Lunch Break & Networking
14.30 -15.30 Hrs.	Resource Adequacy and laws/Guidelines /Regulations related thereto – Ms Ammi Topo , Chief Engineer (IRP), CEA <ul style="list-style-type: none"> ➤ Demand Forecasting ➤ Power Generation Resource Planning ➤ Renewable Generation/Energy Storage Planning ➤ Power Trading/Power Exchange in India ➤ Q&A
15.30 -16.30 Hrs.	Grid balancing, Grid stability due to intermittent generation. Ancillary Services Regulations – Grid Controller of India <ul style="list-style-type: none"> ➤ Issues relating to tackling intermittency of variable renewable generation ➤ Grid stability, frequency control, voltage control ➤ Demand Response ➤ Ancillary Services Regulations ➤ Q&A
16.30-17.00 Hrs.	Tea



17.00-18.00 Hrs.	Tackling intermittency, Long duration storage, Flexibilizing thermal power plants – <ul style="list-style-type: none">➤ Closed Loop Pumped Hydro Storage - Mr. Shравan Kumar, Chief Engineers, CEA➤ Flexibilizing thermal power plants – Mr. B C Mullick, Chief Engineer, CEA➤ Q&A
Day 2 - Wednesday, 3rd July 2024	
10.00 -10.15 Hrs.	Recapitulation and introduction to the forthcoming Sessions – Shri Pankaj Batra , Senior Advisor, IRADe & Ex-Chairperson, CEA
10.15-11.15 Hrs.	New Grid Code 2023 – Mr. Awdhesh Yadav , Chief (Engineering, CERC) <ul style="list-style-type: none">➤ Objective & Scope➤ Resource Planning Code➤ Connection Code➤ Protection Code➤ Commissioning and Commercial Operation Code➤ Operating Code➤ Scheduling and Dispatch Code➤ Cyber Security➤ Monitoring and Compliance Code➤ Miscellaneous➤ Q&A
11.15-11.30 Hrs.	Tea
11.30-12.30 Hrs.	Grid operation – Grid Controller of India <ul style="list-style-type: none">➤ Frequency and voltage control➤ Transmission Congestion➤ Angular Stability➤ Transmission Capacity and Transfer Capability, TTC. ATC and RM➤ Q&A
12.30-13:30 Hrs.	Connectivity Regulations and General Network Access – Mr. Awdhesh Kumar Yadav , Chief (Engineering), CERC <ul style="list-style-type: none">➤ Connectivity➤ Long Term Access, Medium Term Access, Short Term Open Access➤ Provision of General Network Access➤ Q&A
13.30-14:30 Hrs.	Lunch Break & Networking
14:30-15.30 Hrs.	Functioning of Power Exchange- Mr. Mayank Gupta , Sr. VP, Business Development & Strategy, IEX <ul style="list-style-type: none">➤ Types of markets in the Power Exchange, and their features➤ Bid Matching mechanism➤ Prudential Norms for establishment of Power Exchange➤ Settlement Guarantee Fund (SGF)➤ Management of Power Exchange➤ Risk Management by Power Exchange➤ POC mechanism of sharing of transmission charges & losses➤ Open Access charges➤ Deviation Settlement Mechanism➤ Q&A
15.30-16.30 Hrs.	<ul style="list-style-type: none">➤ CEA Measures Relating to Safety and Electric Supply Regulations – Smt. Rishika Sharan, Chief Engineer, CEA➤ CEA Communication Regulations – Ms. Priyam Srivastava, Deputy Director, CEA
16.30-17.00 Hrs.	Closing remarks & Vote of thanks Shri Pankaj Batra , Senior Advisor, IRADe & Ex Chairperson, CEA
17.00 Hrs.	Tea