





# Eastern Regional Capacity Building Workshop for State Stakeholders

on

Resilient, Inclusive, & Environmentally
Sustainable Power Sector (Including Laws, Rules,
Guidelines, Regulations related thereto)

Date: October 17<sup>th</sup> & 18<sup>th</sup> 2024

Venue: Kautilya Hall, Hotel Maurya, Patna (Bihar)

# 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





# **Background**

In the face of growing energy demands and the urgent need for sustainable development, the role of State stakeholders in the power sector has never been more critical. Most of the laws, policies, and regulations governing the power sector are formulated by the Central Government in consultation with the State Governments, while implementation is primarily conducted at the State level. With new recruitments in the States, the legacy does not necessarily get passed on to the new recruits. Therefore, it is crucial that the principles of the laws, policies, and regulations are informed to these new recruits as well as refreshed for the incumbent State stakeholders. In this direction, IRADe in collaboration with Central Electricity Authority (CEA) Ministry of Power, Government of India, has taken the initiative to organise series of capacity building workshops with the following objectives:

- Enhance knowledge and understanding of the State stakeholders regarding national laws, policies, and regulations governing the power sector.
- **Deepen expertise** in the technical, financial, legal, and regulatory aspects of power sector regulation.
- Equip State stakeholders with skills to analyse and address emerging trends and challenges in the sector.
- Foster best practices in stakeholder engagement and public consultation processes.
- Facilitate networking and knowledge exchange among the Central Electricity Regulatory Commission/ Central Electricity Authority, State, & other power sector stakeholders.

This Capacity building Program includes:

- ✓ A half-day workshop for all Principal Secretaries of Power in State Governments.
- ✓ Two-day Regional workshops for State stakeholders.
- ✓ Four two-day webinars on critical topics for a broader State audience

The regional workshops will be organised in all five regions (as per regional grids) of the country i.e. North, West, East, South and North-East. These workshops will lead to refreshing and deepening expertise of the State stakeholders in technical, financial, legal, and regulatory aspects of the power sector, these stakeholders can effectively navigate the complex landscape of energy governance and ensure sustainability of a progressive power sector. Also, it will enable the state stakeholders to analyze and address emerging trends and challenges in the sector, such as renewable energy integration, energy storage, electric vehicle charging, energy efficiency, and grid modernization. By equipping them with the necessary skills and knowledge, it empowers them to develop the sector informed strategies and policies that promote sustainable energy transitions and mitigate potential risks. Furthermore, facilitating networking and knowledge exchange among key stakeholders promotes collaboration, innovation, and mutual learning. By creating platforms for sharing experiences, lessons learned, and best practices, this objective catalyzes collective action towards common sustainability objectives, fostering a culture of cooperation and solidarity within the power sector.





Agenda		
Day 1 – Thursday, 17 <sup>th</sup> October 2024,		
Kautilya Hall, Hotel Maurya , Patna (Bihar)		
10.00-10.30 Hrs	Registration	
10.30 -11.40 Hrs.	Inaugural Session	
10.30 -10.35 Hrs.	Welcome Address by <b>Dr. Jyoti Parikh</b> , Executive Director, IRADe	
10.35 – 10.40 Hrs.	Context Setting by Shri Pankaj Batra, Senior Advisor, IRADe & Ex Chairperson, CEA	
10.40 – 10.45 Hrs.	Introductory Remarks by <b>Dr. Kirit Parikh</b> , Chairman, IRADe & Former member, Planning Commission	
10.45 - 10.55 Hrs	Special Remarks by Guest of Honour, <b>Shri Mahendra Kumar</b> , (IAS), Managing Director, Bihar State Power Generation Company Ltd. & MD SBPDCL, Govt. of Bihar	
10.55 - 11.05 Hrs.	Special Remarks by Guest of Honour, <b>Shri Amir Subhani</b> IAS (Retd.), Chairperson, Bihar State Electricity Regulatory Commission, Govt. of Bihar	
11.05 – 11.15 Hrs	Special Remarks by Guest of Honour, Shri Pankaj Kumar Pal (IAS), Secretary, Energy Department, Government of Bihar	
11.15 - 11.25 Hrs.	Inaugural Address by Chief Guest, <b>Shri. Ghanshyam Prasad</b> , Chairperson, CEA/Member CEA,	
11.25 -11.30 Hrs.	Vote of thanks by <b>Dr. Navpreet Saini</b> , Senior Research Analyst, IRADe	
11.30-12.00 Hrs.	Group Photograph & Tea	
12.00-12.30 Hrs.	Presentation on Outline of Laws, Rules, Guidelines, Regulations of the Government of India/CERC – Shri Pankaj Batra, Senior Advisor, IRADe & Ex-Chairperson, CEA	
12.30-13.00 Hrs.	Roundtable of Secretaries on Capacity Building Requirements for Eastern Region's State	
	Shri Pankaj Kumar Pal (IAS), Secretary, Energy Department, Government of Bihar	
	Shri Avinash Kumar (IAS), Additional Chief Secretary -Department of Energy, Government of Jharkhand	
	Shri Hemant Sharma (IAS), Principal Secretary, Energy Department, Government of Odisha	
	Shri Shantanu Basu (IAS), Secretary Department of Power, Government of West Bengal	
	Shri T.T. Lepcha (IAS), PCE-cum-Secretary (Power), Government of Sikkim	
13.00 -13.30 Hrs.	Ms. Ranjana Deswal, (IAS), Secretary Power Department, U.T Administration, A. & N. Islands Roundtable of Regulators on Capacity Building Requirements For Eastern Region's State	
15.00 15.50 1115.	Shri Arun Kumar Sinha, Member(Technical), Bihar State Electricity Regulatory Commission	
	Shri Atul Kumar, Member (Technical), Jharkhand State Electricity Regulatory Commission	
	Shri Gajendra Mohapatra, Member/Officiating Chairperson, Odisha Electricity Regulatory Commission	
	Dr. M.V. Rao, Chairperson, West Bengal Electricity Regulatory Commission	
	Mr. K.B. Kunwar, Chairperson, Sikkim State Electricity Regulatory Commission	
13.30 -14.00 Hrs.	Roundtable of Renewable Energy Development Agencies on Capacity Building Requirements for Eastern Region's State	
	Shri K. K. Verma, Director, Jharkhand Renewable Energy Development Agency	
	Shri Saidutta Biplab Keshari Pradhan (IAS), Additional Secretary, Energy Department, Govt.	
	of Odisha & Chief Executive, Odisha Renewable Energy Development Agency	
	<b>Shri Barun Kumar Ray</b> (IAS), Additional Chief Secretary, Non-Conventional &Renewable Energy Sources Department, West Bengal	
14.00 -14.30 Hrs.	Lunch Break & Networking	
14.30 -15.30 Hrs.	Resource Adequacy and laws/Guidelines /Regulations related thereto –	
	Ms Ammi Ruhama Toppo, Chief Engineer (IRP), CEA	
	<ul> <li>Demand Forecasting</li> <li>Power Trading/Power Exchange in India</li> </ul>	
	<ul> <li>▶ Renewable Generation/Energy Storage Planning</li> <li>▶ Q&amp;A</li> </ul>	
15.30 -16.30 Hrs.	Grid balancing, Grid stability due to intermittent generation. Ancillary Services Regulations	
13.30 -10.30 HFS.	<ul> <li>Grid balancing, Grid stability due to intermittent generation. Anchiary Services Regulations</li> <li>Mr. Alok Pratap Singh, Chief Manager, ERLDC Grid Controller of India</li> </ul>	
	➤ Issues relating to tackling intermittency of variable ➤ Demand Response	
	renewable generation > Ancillary Services Regulations	
	➤ Grid stability, frequency control, voltage control ➤ Q&A	



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16 20 17 00 H	Тоо
16.30-17.00 Hrs.	Tea
17.00-18.00 Hrs.	Tackling intermittency, Long duration storage, Flexibilizing thermal power plants −  ➤ Closed Loop Pumped Hydro Storage - Mr. Shravan Kumar, Chief Engineers, CEA  ➤ Flexibilizing thermal power plants − Mr. Narender Singh, Chief Engineer, CEA  Q&A  Day 2 − Friday, 18 <sup>th</sup> October 2024,
Kautilya Hall, Hotel Maurya , Patna (Bihar)	
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. Alok Pratap Singh,  Chief Manager, ERLDC Grid Controller of India  Objective & Scope Operating Code  Resource Planning Code Scheduling and Dispatch Code  Connection Code Cyber Security  Protection Code Monitoring and Compliance Code  Commissioning and Commercial Miscellaneous  Operation Code Q&A
11.15-11.30 Hrs.	Tea
11.30-12.30 Hrs.	Grid operation – Mr. Alok Pratap Singh,  Chief Manager, ERLDC, , Grid Controller of India  Frequency and voltage control  Angular Stability  Transmission Capacity and Transfer Capability, TTC. ATC and RM  Q&A  Transmission Congestion
12.30-13:30 Hrs.	Connectivity Regulations and General Network Access  Mr. Rajesh Kumar, Chief General Manager, Central Transmission Utility of India Limited  Connectivity  Long Term Access, Medium Term Access, Short Term Open Access  Provision of General Network Access  O&A
13.30-14:30 Hrs.	Lunch Break & Networking
14:30-15.30 Hrs.	Functioning of Power Exchange:  Mr Ravi Seth (Vice President – Business Development NR & ER), IEX  Types of markets in the Power Exchange, and their features Bid Matching mechanism Prudential Norms for establishment of Power Exchange Power Exchange Deviation Settlement Mechanism Settlement Guarantee Fund (SGF) Management of Power Exchange
15.30-16.30 Hrs.	<ul> <li>CEA Measures Relating to Safety and Electric Supply Regulations</li> <li>Smt. Rishika Sharan, Chief Engineer, CEA</li> <li>CEA Communication Regulations – Ms. Priyam Srivastava, Deputy Director, CEA</li> </ul>
16.30-17.00 Hrs.	Closing remarks & Vote of thanks Shri Pankaj Batra, Senior Advisor, IRADe & Ex- Chairperson, CEA
17.00 Hrs.	Tea
	Chairperson, CEA





# **About Central Electricity Authority of India (CEA)**

The Central Electricity Authority of India advises the government on policy matters and formulates plans for the development of electricity systems. It is a statutory organization constituted under section 3 of Electricity Supply Act 1948, which has been superseded by section 70 of the Electricity Act 2003.

CEA vision to ensure reliable 24×7 power supply of adequate quality to all consumers in the country.

Central Electricity Authority seeks to achieve the vision by performing its statutory function by providing technical support base to all stakeholders in the power sector, to support Ministry of Power for forming policies in the power sector, to make technical standards & regulations, to carry out project monitoring, to disseminate power sector information, to upgrade skills of human resources in the power sector of the country.

## **Central Electricity Authority of India (CEA)**

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## **About Integrated Research and Action for Development (IRADe)**

Integrated Research and Action for Development (IRADe) is an independent advanced research institute which aims to conduct research and policy analysis to engage stakeholders such as government, non-governmental organizations, corporations, academic and financial institutions. Energy, climate change, urban development, poverty, gender equity, agriculture and food security are some of the challenges faced in the 21st century. Therefore, IRADe research covers these, as well as policies that affect them.

IRADe's focus is effective action through multi-disciplinary and multi-stakeholder research to arrive at implementable solutions for sustainable development and policy research that accounts for the effective governance of technoeconomic and socio-cultural issues. Being Asia Center for Sustainable Development, we have been carrying out policy research and its implementation for enabling socio-economic growth and charting pathways for sustainable development in South-Asia.

IRADe was established under the Society's Act, in 2002 at New Delhi. It is certified as a Research and Development Organization by the Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology (MoST). It has also been selected as a Center of Excellence by the Ministry of Urban Development (MoUD) for urban development and climate change. In addition, it provides expertise to other ministries, national and international institutions and partners with other reputed organizations.

### **Integrated Research and Action for Development (IRADe)**

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