





North-Eastern Regional Capacity Building Workshop for State Stakeholders

on

Resilient, Inclusive, & Environmentally Sustainable Power Sector

(Including Laws, Rules, Guidelines, Regulations related thereto)



Date: November 21th & 22th 2024 Venue: The Lily Hotel, Guwahati (Assam) *Organised by* : IRADe CEA





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.

To address this, **Integrated Research and Action for Development (IRADe)** in collaboration with the **Central Electricity Authority (CEA)** under the Ministry of Power, Government of India, has initiated a **National Capacity-Building Program to organise series of capacity building workshops on a regional basis.** This initiative aims to equip stakeholders at state level with the knowledge necessary to navigate the evolving landscape of India's power sector.

Program Objectives

National Capacity Building Program



National Program Structure

Regional capacity-building workshops and National webinars

The program will include a series of Regional **Capacity-Building Workshops and National webinars** held across India's five grid regions: **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.

To complement the workshops, a series of **National Webinars** will be organized, ensuring that all key stakeholders, including those unable to attend the workshops in person, benefit from the program. These webinars will offer a platform for nationwide knowledge-sharing and collaboration.





Agenda

Day 1 – Thursday, 21 st November 2024					
09.30 -10.00 Hrs.	09.30 -10.00 Hrs. Registration				
10.00 -11.50 Hrs.	10.00 -11.50 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 & Former member, Planning Commission				
10.15-10.25 Hrs	Special Remarks by Guest of Honour, Shri Bibhu Bhuyan, Managing Director, Assam Power Generation Corporation Limited, Government of Assam				
10.25-10.35 Hrs	Special Remarks by Guest of Honour, Shri Debajyoti Das, Managing Director, Assam Electricity Grid Corporation Limited (AEGCL), Government of Assam				
10.35-10.45 Hrs.	Special Remarks by Guest of Honour, Shri Rakesh Kumar, IAS, Managing Director, Assam Power Distribution Company Limited, Government of Assam				
10.45 -10.55 Hrs.	Special Remarks by Guest of Honour, Shri Ghanshyam Das , IAS, Secretary, Power (Electricity) Department, Government of Assam				
10.55 -11.05 Hrs.	Special Remarks by Guest of Honour, Dr. Krishna Kumar Dwivedi , IAS , Principal Secretary, Power (Electricity) Department, Government of Assam				
11.15 -11.25 Hrs.	Special Remarks by Guest of Honour, Shri Kumar Sanjay Krishna , (Retd. IAS) Chairperson, Assam Electricity Regulatory Commission, Government of Assam				
11.25 -11.35 Hrs.	Special Remarks by Guest of Honour, Dr. Ravi Kota, IAS , Chief Secretary & Chairman, Assam Energy Development Agency, Government of Assam				
11.35 -11.45 Hrs.	Inaugural Address by Chief Guest, Shri Jishnu Barua, Chairperson, Central Electricity Regulatory Commission,				
11.45 -11.50 Hrs	Vote of thanks by Ms. Navpreet Saini , Senior Research Analyst, IRADe				
11.50-12.00 Hrs	Group Photograph & Tea				
12.00-12.30 Hrs.	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 North-Eastern Region's State				
	Dr. Krishna Kumar Dwivedi , IAS , Principal Secretary, Department of Power (Electricity), Government of Assam				
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	Government of Assam Shri R K Sharma, IAS, Secretary, Power Department, Government of Arunachal Pradesh				
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13.30 -14.00 Hrs. Roundtable of Renewable Energy Development Agencies on Capacity Building Requirements for				
	North Eastern Region's State			
	Dr. Jaideep Baruah, Director, Assam Energy Development Agency (AEDA), Government of Assam Shri Marbom Bam, Director, Arunachal Pradesh Renewable Energy Development Agency			
	(APEDA), Government of Arunachal Pradesh Shri P.M. Sangma, Member Secretary-cum-Director, Meghalaya New and Renewable Energy			
	Development Agency (MNREDA), Government of Meghalaya Shri N. Praveen Singh, Director, Manipur Renewable Energy Development Agency (MANIREDA), Government of Manipur			
	Shri Ngursailova Sailo, Director, Zoram Energy Development Agency, Government of Mizoram Shri Lhouchalie Viya, IAS, Commissioner & Secretary, Directorate of New and Renewable Energy, Govt. of Nagaland			
	Shri M Debbarma, Director General & CEO, Tripura Renewable Energy Development Agency (TREDA), Govt. of Tripura			
14.00 -14.30 Hrs.	Lunch Break & Networking			
14.30 -15.20 Hrs.	Resource Adequacy and laws/Guidelines /Regulations related thereto –			
	Ms Ammi Topo, Chief Engineer (IRP), CEA			
	 Demand Forecasting Power Generation Resource Planning Power Trading/Power Exchange in India 			
	 Renewable Generation/Energy Storage Planning Q&A 			
15.20 -16.10 Hrs.	Grid balancing, Grid stability due to intermittent generation. Ancillary Services Regulations –			
	Mr. Alok Pratap Singh, Chief Manager, ERLDC Grid Controller of India			
	 Issues relating to tackling intermittency of variable Demand Response 			
	 renewable generation > Grid stability, frequency control, voltage control > Q&A 			
16.10-16.20 Hrs.				
16.20-17.00 Hrs.	OTC Regulations – New flexible trading platform by CERC -Mr. Mayank Sharma, GNA Energy			
17.00-18.00 Hrs.	Tackling intermittency, long duration storage, incentive for hydro power plants			
17.00-10.00 1115.	Mr. Shravan Kumar, Chief Engineers, CEA			
	 Closed Loop Pumped Hydro Storage 			
	 Incentives for hydro power plant given by Government of India 			
	➢ Q&A			
Day 2 - Friday, 22 nd November 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)			
	> Objective & Scope > Operating Code			
	 Resource Planning Code Scheduling and Dispatch Code 			
	 Connection Code Protection Code Cyber Security 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. Sachin Kumar Singh, Manager (System Operation), NERLDC			
	 Frequency and voltage control Transmission Capacity and Transfer Capability, TTC. ATC and RM Q&A 			
10.00.10.00.17	> Transmission Congestion			
12.30-13:30 Hrs.	Connectivity Regulations and General Network Access – Mr. Awdhesh Kumar Vaday, Chief (Engineering), CERC			
	Mr. Awdhesh Kumar Yadav, Chief (Engineering), CERC			
	> Connectivity			
	 Connectivity Long Term Access, Medium Term Access, Short Term Open Access 			





	➢ Q&A		
13.30-14:30 Hrs.	Lunch Break & Networking		
14:30-15.30 Hrs.	Functioning of Power Exchange:		
	Mr. Dhruv Dhiman, Vice President -Business Development, IEX		
	Types of markets in the Power	Risk Management by Power Exchange	
	Exchange, and their features	 POC mechanism of sharing of transmission 	
	Bid Matching mechanism	charges & losses	
	Prudential Norms for establishment of	 Open Access charges 	
	Power Exchange	 Deviation Settlement Mechanism 	
	Settlement Guarantee Fund (SGF)	≻ Q&A	
	Management of Power Exchange		
15.30-16.30 Hrs.	CEA Measures Relating to Safety and Electric Supply Regulations		
	Smt. Rishika Sharan, Chief Engineer, CEA		
16.30-17.00 Hrs.	Closing remarks & Vote of thanks Shri Pankaj Batra, Senior Advisor, IRADe & Ex-Chairperson, CEA		
17.00 Hrs.	Tea		





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.

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