

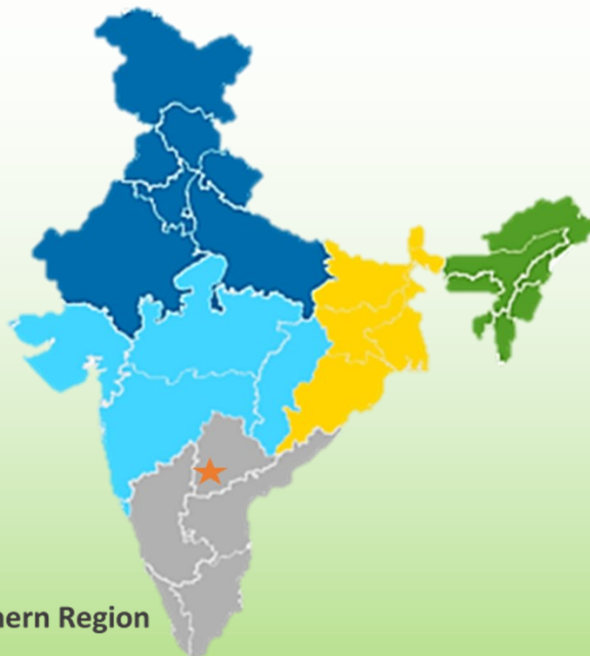


# Southern Regional Capacity Building Workshop for State Stakeholders

on

## Resilient, Inclusive, & Environmentally Sustainable Power Sector

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



Southern Region

Date: February 20<sup>th</sup> & 21<sup>st</sup> 2025

Venue: Hyderabad (Telangana)

*Organised by :*

IRADe

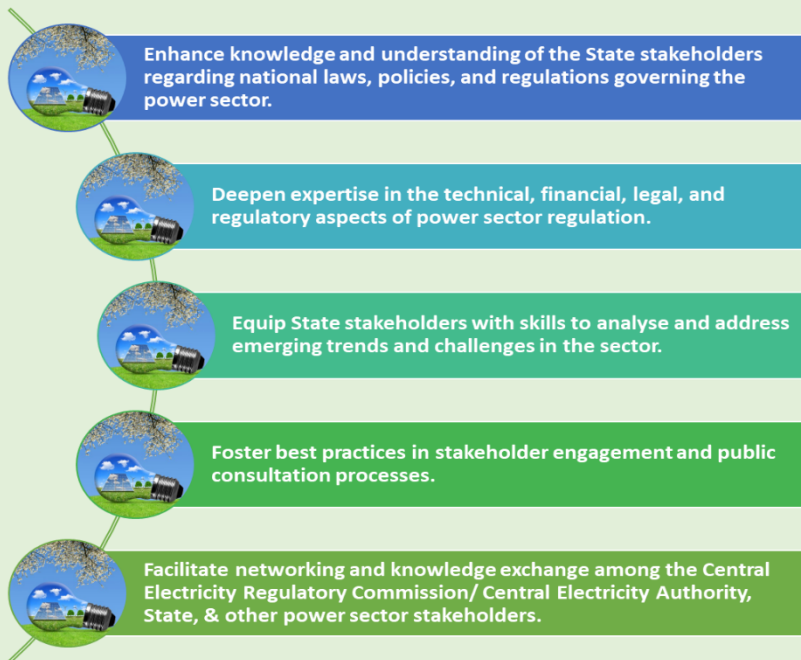
CEA

## 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.

## Tentative Agenda

### Day 1 – 20 February 2025

<b>09.30 -10.00 Hrs.</b>	<b>Registration</b>
<b>10.00 -11.50 Hrs.</b>	<b>Inaugural Session</b>
10.00 -10.05 Hrs.	elcome Address by <b>Dr. Jyoti Parikh</b> , Executive Director, IRADe
10.05-10.10 Hrs.	Context Setting by <b>Shri Pankaj Batra</b> , Senior Advisor, IRADe & Ex Chairperson, CEA
10.10-10.15 Hrs.	Introductory Remarks by <b>Dr. Kirit Parikh</b> , Chairman, IRADe & Former member, Planning Commission
10.15-10.25 Hrs	Special Remarks by Guest of Honour, <b>Shri D. Krishna Bhaskar</b> , IAS, CMD, Transmission Corporation of Telangana Limited, Government of Telangana
10.25-10.35 Hrs	Special Remarks by Guest of Honour, <b>Shri Musharraf Ali Faruqui</b> , IAS, CMD, Southern Power Distribution Company of Telangana Limited., Govt of Telangana
10.35-10.45 Hrs.	Special Remarks by Guest of Honour, <b>Shri Karnati Varun Reddy</b> , IAS, CMD, Northern Power Distribution Company of Telangana Limited, Govt of Telangana
10.45 -10.55 Hrs.	Special Remarks by Guest of Honour, <b>Dr Justice Devaraju Nagarjun</b> , Chairperson, Telangana Electricity Regulatory Commission, Government of Telangana
10.55 -11.05 Hrs.	Special Remarks by Guest of Honour, <b>Shri Sandeep Kumar Sultania</b> , IAS, Secretary, Energy Department, & CMD, Telangana Power Generation Corporation Limited, Government of Telangana
11.05 -11.15 Hrs	Inaugural Address by Chief Guest, <b>Shri Ghanshyam Prasad</b> , Chairperson, Central Electricity Authority
11.15 -11.20 Hrs.	Vote of thanks by <b>Dr. Navpreet Saini</b> , Senior Research Analyst, IRADe
<b>11.20-12.00 Hrs</b>	<b>Group Photograph &amp; Tea</b>
<b>12.00-12.30 Hrs.</b>	<b>Presentation on Outline of Laws, Rules, Guidelines, Regulations of the Government of India/CERC – Shri Pankaj Batra</b> , Senior Advisor, IRADe & Ex-Chairperson, CEA
<b>12.30-13.00 Hrs.</b>	<b>Roundtable of Secretaries on Capacity Building Requirements for Southern Region’s State</b> <b>Shri Sandeep Kumar Sultania</b> , IAS, Secretary, Energy Department, & CMD, Telangana Power Generation Corporation Limited, Government of Telangana <b>Shri K.Vijayanand</b> , IAS, Special Chief Secretary, Energy Department, Government of Andhra Pradesh <b>Shri Gaurav Gupta</b> , IAS, Additional Chief Secretary, Energy Department, Government of Karnataka <b>Shri K R Jyothilal</b> , IAS, Additional Chief Secretary, Power Department, Government of Kerala <b>Dr Beela Venkatesan</b> IAS, Principal Secretary, Energy Department, Government of Tamil Nadu <b>Dr. A. Muthamma</b> , IAS, Secretary (Power), Government of Puducherry
<b>13.00 -13.30 Hrs.</b>	<b>Roundtable of Regulators on Capacity Building Requirements for Southern Region’s State</b> <b>Dr Justice Devaraju Nagarjun</b> , Chairman, Telangana Electricity Regulatory Commission, <b>Shri Thakur Rama Singh</b> , Member& Chairman i/c, Andhra Pradesh Electricity Regulatory Commission <b>Shri P Ravi Kumar</b> IAS (Retd.), Chairman, Karnataka Electricity Regulatory Commission <b>Shri T.K. Jose</b> IAS(Rtd), Chairman, Kerala Electricity Regulatory Commission <b>Shri Thiru R. Manivannan</b> , Chairman, Tamil Nadu Electricity Regulatory Commission
<b>13.30 -14.00 Hrs.</b>	<b>Roundtable of Renewable Energy Development Agencies on Capacity Building Requirements for Southern Region’s State</b> <b>Shri Neelam Janaiah</b> , Vice Chairman & Managing Director, Telangana Renewable Energy Development Corporation Ltd., Government of Telangana <b>Shri V.N. Chakradhara Babu</b> , IAS, VC & Managing Director, New & Renewable Energy Development Corporation of Andhra Pradesh <b>Shri K.P. Rudrappaiah</b> , Managing Director, Karnataka Renewable Energy Development Limited <b>Shri Narendra Nath Veluri</b> , IFS, Chief Executive Officer, Agency for New and Renewable Energy Research and Technology <b>Dr. Jagmohan Singh Raju</b> , IAS, Chairman & Managing Director, Tamil Nadu Energy Development Agency (TEDA) <b>Shri. Yasam Lakshmi Narayana Reddy</b> , Managing Director, Renewable Energy Agency Puducherry

14.00 -14.30 Hrs.	<b>Lunch Break &amp; Networking</b>
14.30 -15.20 Hrs.	<b>Resource Adequacy and laws/Guidelines /Regulations related thereto –</b> <b>Ms Ammi Topo, Chief Engineer (IRP), CEA</b> <ul style="list-style-type: none"> <li>➤ Demand Forecasting</li> <li>➤ Power Generation Resource Planning</li> <li>➤ Renewable Generation/Energy Storage Planning</li> <li>➤ Power Trading/Power Exchange in India</li> <li>➤ Q&amp;A</li> </ul>
15.20 -16.10 Hrs.	<b>Grid balancing, Grid stability due to intermittent generation. Ancillary Services Regulations –</b> <b>Grid Controller of India</b> <ul style="list-style-type: none"> <li>➤ Issues relating to tackling intermittency of variable renewable generation</li> <li>➤ Grid stability, frequency control, voltage control</li> <li>➤ Demand Response</li> <li>➤ Ancillary Services Regulations</li> <li>➤ Q&amp;A</li> </ul>
16.10-16.20 Hrs.	<b>Tea</b>
16.20-17.00 Hrs.	<b>OTC Regulations – New flexible trading platform by CERC -Mr. Mayank Sharma, GNA Energy</b>
17.00-18.00 Hrs.	<b>Tackling intermittency, long duration storage, incentive for hydro power plants -</b> <b>Mr. Shravan Kumar, Chief Engineers, CEA</b> <ul style="list-style-type: none"> <li>➤ Closed Loop Pumped Hydro Storage</li> <li>➤ Incentives for hydro power plant given by Government of India</li> </ul> <b>Flexibilizing thermal power plants – Mr. Rohit Yadav, Deputy Director, CEA</b> <ul style="list-style-type: none"> <li>➤ Flexibilizing thermal power plants</li> </ul>
<b>Day 2 - 21 February 2025</b>	
10.00 -10.15 Hrs.	<b>Recapitulation and introduction to the forthcoming Sessions –</b> <b>Shri Pankaj Batra, Senior Advisor, IRADe &amp; Ex-Chairperson, CEA</b>
10.15-11.15 Hrs.	<b>New Grid Code 2023 – Mr. Awdhesh Yadav, Chief (Engineering, CERC)</b> <ul style="list-style-type: none"> <li>➤ Objective &amp; Scope</li> <li>➤ Resource Planning Code</li> <li>➤ Connection Code</li> <li>➤ Protection Code</li> <li>➤ Commissioning and Commercial Operation Code</li> <li>➤ Operating Code</li> <li>➤ Scheduling and Dispatch Code</li> <li>➤ Cyber Security</li> <li>➤ Monitoring and Compliance Code</li> <li>➤ Miscellaneous</li> <li>➤ Q&amp;A</li> </ul>
11.15-11.30 Hrs.	<b>Tea</b>
11.30-12.30 Hrs.	<b>Grid operation - Grid Controller of India</b> <ul style="list-style-type: none"> <li>➤ Frequency and voltage control</li> <li>➤ Transmission Capacity and Transfer Capability, TTC. ATC and RM</li> <li>➤ Transmission Congestion</li> <li>➤ Angular Stability</li> <li>➤ Q&amp;A</li> </ul>
12.30-13:30 Hrs.	<b>Connectivity Regulations and General Network Access –</b> <b>Mr. Awdhesh Kumar Yadav, Chief (Engineering), CERC</b> <ul style="list-style-type: none"> <li>➤ Connectivity</li> <li>➤ Long Term Access, Medium Term Access, Short Term Open Access</li> <li>➤ Provision of General Network Access</li> <li>➤ Q&amp;A</li> </ul>
13.30-14:30 Hrs.	<b>Lunch Break &amp; Networking</b>
14:30-15.30 Hrs.	<b>Functioning of Power Exchange:</b> <b>Indian Energy Exchange (IEX)</b> <ul style="list-style-type: none"> <li>➤ Types of markets in the Power Exchange, and their features</li> <li>➤ Bid Matching mechanism</li> <li>➤ Prudential Norms for establishment of Power Exchange</li> <li>➤ Settlement Guarantee Fund (SGF)</li> <li>➤ Management of Power Exchange</li> <li>➤ Risk Management by Power Exchange</li> <li>➤ POC mechanism of sharing of transmission charges &amp; losses</li> <li>➤ Open Access charges</li> <li>➤ Deviation Settlement Mechanism</li> <li>➤ Q&amp;A</li> </ul>
15.30-16.30 Hrs.	<ul style="list-style-type: none"> <li>➤ <b>CEA Measures Relating to Safety and Electric Supply Regulations</b>  <b>Smt. Rishika Sharan, Chief Engineer, CEA</b></li> </ul>
16.30-17.00 Hrs.	<b>Closing remarks &amp; Vote of thanks Shri Pankaj Batra, Senior Advisor, IRADe &amp; Ex-Chairperson, CEA</b>
17.00 Hrs.	<b>Tea</b>

## 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)

Sewa Bhawan, R. K. Puram, Sector-1, New Delhi, 110 066

Tel.: 91 (11) 26732201 / 2222

Our Websites and Social Media Handles: [www.cea.nic.in](http://www.cea.nic.in)



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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 techno-economic 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)

C-80 Shivalik, Malviya Nagar, New Delhi - 110017

Tel.: 91 (11) 2667 6180, 2667 6181, 2668 2226

Our Websites and Social Media Handles:

[www.irade.org](http://www.irade.org)

[www.sari-energy.org](http://www.sari-energy.org)



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