

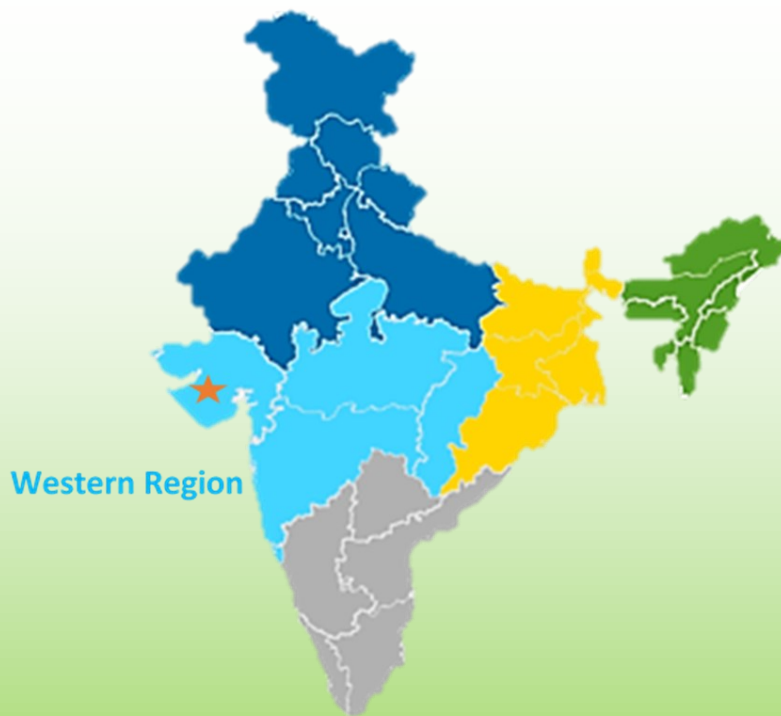


Western Regional Capacity Building Workshop for State Stakeholders

on

Resilient, Inclusive, & Environmentally Sustainable Power Sector

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



Date: January 23rd & 24th 2024
Venue: Welcom Hotel, Vadodara (Gujarat)

Organised by :

IRADe

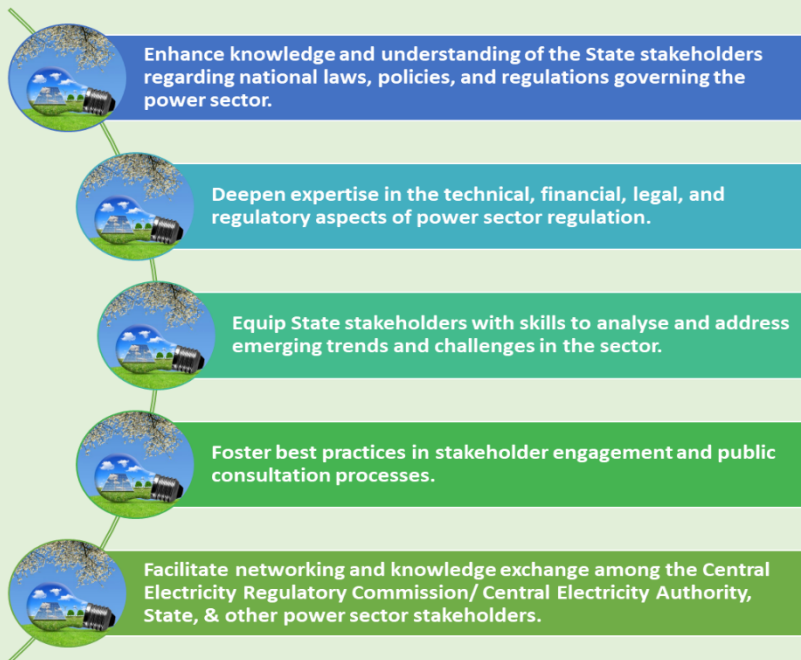
CEA

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, East, North-East, West and South**. 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, 23rd January 2025

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| 09.30 -10.00 Hrs. | Registration |
| 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 Somes Bandyopadhyay , Managing Director, Gujarat State Electricity Corporation Limited (GSECL), Government of Gujarat |
| 10.25-10.35 Hrs | Special Remarks by Guest of Honour Shri Upendra Pande , Managing Director, Gujarat Energy Transmission Corporation Limited (GETCO), Govt. of Gujarat |
| 10.35-10.45 Hrs. | Special Remarks by Guest of Honour, Shri Arun Mahesh Babu M.S., IAS , Managing Director, Gujarat Power Corporation Limited(GPCL), Govt. of Gujarat |
| 10.45 -10.55 Hrs. | Special Remarks by Guest of Honour, Shri Jai Prakash Shivahare , IAS, Managing Director, Gujarat Urja Vikas Nigam Limited(GUVNL) , Govt. of Gujarat |
| 10.55 -11.05 Hrs. | Special Remarks by Guest of Honour, Shri Anil Mukim , (Retd. IAS) Chairperson, Gujarat Electricity Regulatory Commission, Government of Gujarat |
| 11.15 -11.25 Hrs. | Special Remarks by Guest of Honour, Shri. S J Haider , IAS, Additional Chief Secretary, Energy and Petrochemicals Department, & Chairman, Gujarat Energy Development Agency(GEDA), Government of Gujarat |
| 11.25 -11.35 Hrs. | Inaugural Address by Chief Guest, Shri. Ghanshyam Prasad , Chairperson, CEA/Member CEA |
| 11.35 -11.40 Hrs | Vote of thanks by Ms. Navpreet Saini , Senior Research Analyst, IRADe |
| 11.40-12.00 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 Western Region’s State Shri. S J Haider , IAS, Additional Chief Secretary, Energy & Petrochemicals Department, Govt of Gujarat Smt. Abha Shukla , IAS, Additional Chief Secretary (Energy), Government of Maharashtra Shri Neeraj Mandloi , IAS, Additional Chief Secretary (Energy), Government of Madhya Pradesh Dr. Rohit Yadav , IAS, Secretary (Energy Department), Government of Chhattisgarh Shri Prasad Lolayekar , IAS, Secretary, Power and New and Renewable Energy Department, Government of Goa Shri Arun T. , IAS, Secretary (Energy) Power & Non-Conventional (Renewable) Sources of Energy UT of Dadra and Nagar Haveli and Daman and Diu |
| 13.00 -13.30 Hrs. | Roundtable of Regulators on Capacity Building Requirements for Western Region’s State Shri Anil Mukim , (Retd. IAS) Chairperson, Gujarat Electricity Regulatory Commission, Govt of Gujarat Shri Sanjay Kumar , Chairperson, Maharashtra Electricity Regulatory Commission, Government of Maharashtra Shri S.P.S. Parihar , Chairperson, Madhya Pradesh Electricity Regulatory Commission, Government of Madhya Pradesh Shri Hemant Verma , Chairman, Chhattisgarh State Electricity Regulatory Commission, Government of Chhattisgarh Shri Alok Tandon , IAS (Retd.), Chairperson, Joint Electricity Regulatory Commission for the state of Goa and Union Territories |
| 13.30 -14.00 Hrs. | Roundtable of Renewable Energy Development Agencies on Capacity Building Requirements for Western Region’s State Shri Ajay Prakash , Director, Gujarat Energy Development Agency, Government of Gujarat Dr Kadambari Balkawade , IAS, Director General, Maharashtra Energy Development Agency, Government of Maharashtra Shri Amanbir Singh Bains , Managing Director, Madhya Pradesh Urja Vikas Nigam Limited, Government of Madhya Pradesh Shri Rajesh Singh Rana , IAS, CEO, Chhattisgarh State Renewable Energy Development Agency, Government of Chhattisgarh Shri Alexio D’Costa , Director, Department of New and Renewable Energy, Government of Goa |

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| 14.00 -14.30 Hrs. | Lunch Break & Networking |
| 14.30 -15.20 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 |
| 15.20 -16.20 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 |
| 16.20-16.30 Hrs. | Tea |
| 16.30 -17.30 Hrs. | 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 |
| Agenda Day 2 - Friday, 24th January 2025 | |
| 10.00 -10.15 Hrs. | Recapitulation and introduction to the forthcoming Sessions – Shri Pankaj Batra, Senior Advisor, IRADe & Ex-Chairperson, CEA |
| 10.15-11.00 Hrs. | Tackling intermittency, Long duration storage, Mr. Shravan Kumar, Chief Engineers, CEA <ul style="list-style-type: none"> ➤ Closed Loop Pumped Hydro Storage ➤ Q&A |
| 11.00-11.15 Hrs. | Tea |
| 11.15-12.00 Hrs. | Flexibilizing thermal power plants – Mr. Rohit Yadav, Deputy Director, CEA <ul style="list-style-type: none"> ➤ Flexibilizing thermal power plants ➤ Q&A |
| 12.00-12.45 Hrs. | Grid operation – Shri. M. Venkateswara Rao , Manager(SO) Grid Controller of India <ul style="list-style-type: none"> ➤ Frequency and voltage control ➤ Transmission Capacity and Transfer Capability, TTC. ATC and RM ➤ Transmission Congestion ➤ Angular Stability ➤ Q&A |
| 12.45-13:30 Hrs. | Grid balancing, Grid stability due to intermittent generation. Ancillary Services Regulations – Shri. Goodelli Madhukar, DGM(SO) 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 |
| 13.30-14:00 Hrs. | Lunch Break & Networking |
| 14:00-15.00 Hrs. | Functioning of Power Exchange: Mr. Dhruv Dhiman, Vice President (Business Development)-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 |
| 15.00-16.00 Hrs. | OTC Regulations – New flexible trading platform by CERC – Mr. Mayank Sharma, GNA Energy |
| 16.00-17.30 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 |
| 17.30 -18.00 Hrs. | Closing remarks & Vote of thanks-Shri Pankaj Batra, Senior Advisor, IRADe & Ex-Chairperson, CEA |
| 18.00 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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Our Websites and Social Media Handles: 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.

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