



Webinar Series
under
National Capacity Building Program
for
State-level Regulatory & Implementing Institutions
On
Resilient, Inclusive, & Environmentally Sustainable Power Sector
(Including Laws, Rules, Guidelines, Regulations related thereto)



Background

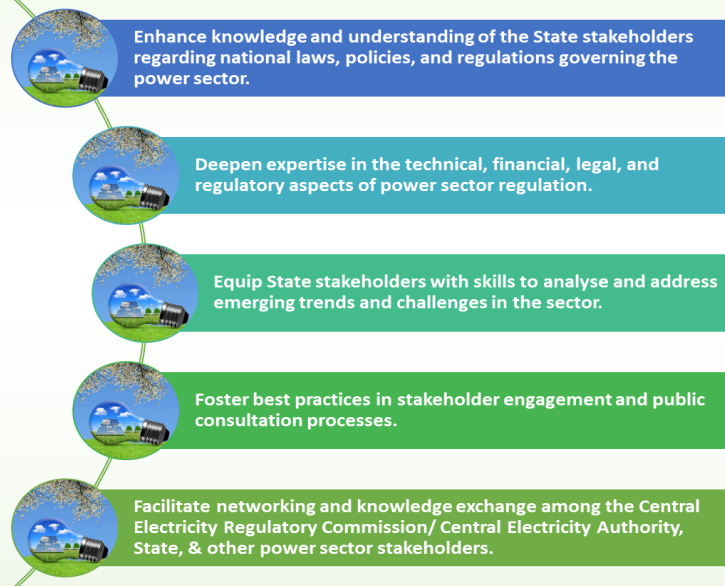
After the successful completion of regional capacity-building workshops across five grid regions—**North, East, North-East, South, and West**—Integrated Research and Action for Development (IRADe) in collaboration with the Central Electricity Authority (CEA) under the Ministry of Power, Government of India are organizing a series of **four half-day National Webinars** to further deepen engagement and knowledge-sharing among stakeholders. These webinars aim to address critical issues, share best practices, and equip state-level institutions with essential insights for strengthening India's power sector.

The webinars will provide a platform for experts, policymakers, and practitioners to discuss emerging trends, regulatory updates, and technological advancements that impact power sector sustainability and efficiency.

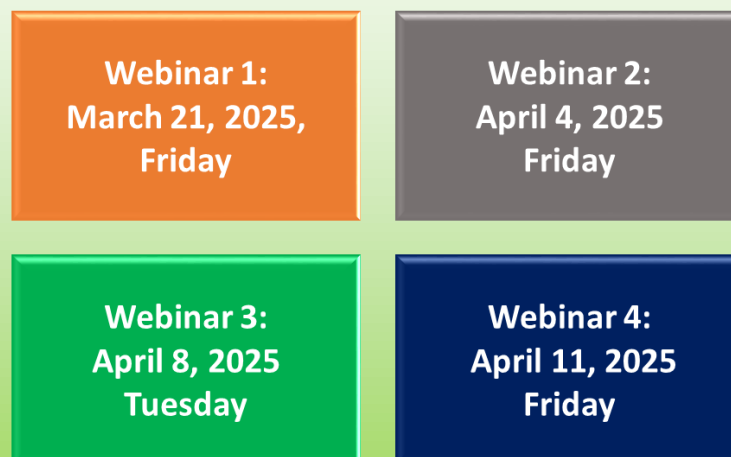
To complement the workshops, a series of **National Webinars** will be organized, ensuring that all key stakeholders, including those unable to attend the workshops in person, benefit from the program. These webinars will offer a platform for nationwide knowledge-sharing and collaboration.

This initiative aims to equip to state stakeholders with the knowledge necessary to navigate the evolving landscape of India's power sector.

Program Objectives



Webinar Series Schedule



Webinar Series Timings



Topic Covers in the program

Webinar 1

- **Topic 1:** Demand forecasting for electric vehicle demand; Resource Adequacy, including considering renewable energy, decentralised generation and storage.
- **Topic 2:** Power procurement planning for long-term, medium-term, and short-term, including procurement from the power exchange

Webinar 2

- **Topic 3:** General Network Access (GNA)
- **Topic 4:** Security Constrained Economic Dispatch (SCED), Security Constrained Unit Commitment (SCUC). Deviation Settlement Mechanism (DSM)

Webinar 3

- **Topic 5:** Integration of renewable energy into the grid and its impact on grid stability, Forecasting for renewable energy generation; Artificial Intelligence for forecasting the wind and solar generation
- **Topic 6:** Smart grid implementation in generation, transmission, and distribution and Data analytics

Webinar 4

- **Topic 7:** Challenges in Net Metering and Commissioning for Rooftop Solar PV in Government Buildings, Industries, households, etc. Solar panels maintenance
- **Topic 8:** Energy economics. Cost benefit analysis of alternatives. Example: Storage vs system upgradation

Each webinar will begin at **10:30 AM** and will follow the same structured schedule. The first topic will run from **10:30 AM to 11:15 AM**, followed by a **15-minute Q&A session** from **11:15 AM to 11:30 AM**. The second topic will take place from **11:30 AM to 12:15 PM**, with another **15-minute Q&A session** from **12:15 PM to 12:30 PM**. This schedule will be maintained across all four webinars, taking place on **March 21, 2025 (Friday), April 4, 2025 (Friday), April 8, 2025 (Tuesday), and April 11, 2025**

Participants



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 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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