

Central Electricity Authority and IIT Roorkee signed MoU to Strengthen Collaboration in Power Sector Research and Capacity Building

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A Memorandum of Understanding (MoU) was signed on 01-07-2025 between the Central Electricity Authority (CEA), Ministry of Power, Government of India and the Indian Institute of Technology (IIT) Roorkee to foster collaboration in knowledge sharing, capacity building, and interdisciplinary research in the power and energy sector.

The MoU was signed by Shri Ghanshyam Prasad, Chairperson, CEA, and Prof. Kamal Kishore Pant, Director, IIT Roorkee, in the presence of Members (Planning/Hydro/GO&D) of Authority, Chief Engineer (ET&I), CEA, Secretary, CEA and other senior officials and faculty members from both institutions.

Key Objectives of the MoU:

- Capacity Building: Enhance knowledge and technical capabilities of CEA personnel through short-term project work and access to IIT Roorkee's online courses.
- Collaborative Research: Promote joint studies and projects on critical issues related to India's electricity and energy landscape.
- Sustainable Development: Advance interdisciplinary research on decarbonization, energy efficiency, water neutrality, and just transition frameworks.
- Energy Transition: Support India's commitment to achieving net-zero emissions by 2070 or earlier.

Areas of Cooperation Include:

- Hydropower and pumped storage
- Clean energy transition and decarbonization of the power sector
- Renewable energy integration, including flexibility and distributed generation
- Emerging technologies: green hydrogen, e-mobility, energy storage, biomass cofiring, and geothermal
- Climate vulnerability assessment of energy infrastructure
- Emission inventories and pollution estimation
- Development of standards for electric vehicles and battery recycling
- Quality and reliability of power supply

Both organizations will also collaborate on the sharing of data, facilities, and research outcomes based on mutual consent and in line with confidentiality agreements.

This partnership underscores the government's focus on fostering academic-industry collaborations to accelerate innovation, policy formulation, and technical interventions in the power sector.

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