Centre for Energy Regulation

Department of Management Sciences
Indian Institute of Technology Kanpur – 208016

Venue: IITK Outreach Center, Noida

7th – 9th Dec., 2026

Registration ends: 30th Nov., 2026

MASTERCLASS ON

Electricity Derivatives

Limited Seats

"Power Procurement, Market Operation & Risk Management"

As electricity markets evolve and procurement becomes increasingly exposed to price volatility and market uncertainty, effective procurement planning, sale of merchant power and risk management assume growing importance.

The Masterclass on Electricity Derivatives aims to develop a comprehensive understanding of electricity derivative and their applications in electricity purchase/sale portfolio and risk management thereof. It covers power market operation, derivative instruments and hedging strategies and the regulatory framework governing the same. The programme will also provide an understanding of the Indian power market and contrast with international context.

The Programme also examines applications in power portfolio management and procurement strategies for generators, traders, and commercial and industrial (C&I) consumers, including captive and open-access consumers, with a focus on opportunities and challenges in India's evolving power market.

Relevance of the Programme

- Understand economic and financial foundations of electricity derivatives and their role in power market.
- Identify price, volume, and basis risks, and understand hedging avenues.
- Explore trading strategies for merchant power plants, including RE and storage.
- Derive insight from International experience in electricity derivatives for the Indian context.
- Understand regulatory framework, market evolution, and product design.
- Explore application of derivatives in generation portfolio management and, power procurement by C&I, captive and open-access consumers.

Programme Outcomes

- Develop trading strategies and understand participation in electricity derivatives market.
- Understand the characteristics and applications of forwards, futures, options, CfDs, VPPA and banking.
- Identify key procurement risks and apply hedging principles.
- Evaluate derivatives applications for RE generators, C&I consumers, data centers, traders and DISCOMs.
- Identify opportunities to minimize power procurement costs through effective trading and hedging strategies.

Who should Apply?

Officials from electricity regulatory commissions; professionals from generation, transmission, distribution, and trading companies; merchant power plant; renewable energy and energy storage developers; power exchange participants and market analysts; C&I, captive, and open-access consumers; professionals from financial institutions, banks, consulting firms, investment funds, and risk-management teams; researchers, policymakers, and other stakeholders interested in electricity markets and risk management.

Contact us
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Knowledge Partner

Masterclass on Electricity Derivatives

Power Procurement, Market Operations & Risk Management

7th – 9th Dec., 2026

KEY TOPICS

Module 1

Power Procurement, Markets & Risk Hedging

- Fundamentals of Power Procurement
- Power Market Operation
- Fundamentals of Derivatives
- Risk Hedging in the Power Sector

Module 2

Electricity Derivatives: India & International Experience

- Electricity Derivatives in India & International Experience
- Designing India-Centric Derivatives
- Regulatory Framework
- Contracts for Differences & Virtual PPAs

Module 3

Applications of Electricity Derivatives

- Building a Electricity Portfolio with Derivatives
- Strategies for Captive & Open Access Consumers, Data Centers, Merchant Plant Owners and DISCOMs
- Practical Application: Power Portfolio & Hedging

Online Module (Optional)*

- Economic Fundamentals of Power Sector
- Market Failure and Natural Monopoly
- Emerging Landscape of the Indian Power Market
- Regulated vs Competitive Procurement
- Short-Term Power Procurement Practices
- Functioning of Power Exchanges: Regulation, Development and Products

*Pre-recorded online modules for foundation building available on the CER OLET portal.

PROGRAMME FORMAT

DATES	DURATION	MODE	VENUE
7th – 9th Dec., 2026	Three days	Residential, In-person	IIT Kanpur Outreach Centre, Noida

Inclusions: Single occupancy onsite AC accommodation, all meals, welcome reception and program kit. Participation Certificates will be awarded at the Valedictory Function on the last day of the program.

UNIQUE FEATURES

- Application-Oriented Examples
- Electricity Price-Risk Management
- Access to Advanced Online Resources
- Industry-Relevant Learning
- Portfolio & Hedging Applications
- Interact with Sector Experts
- Residential & Interactive Format

Registration

Due to limited seats, registration would be accepted on **first-come first-serve basis.**
The program would be conducted under the aegis of Office of Outreach Activities, IIT Kanpur. For further information and updates, visit https://cer.iitk.ac.in/OLET/Masterclass_ED

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Knowledge Partner

Energy Analytics Lab