



Indian Energy Exchange (IEX) &  
Indian Institute of Technology Kanpur (IITK)

Jointly present  
A Three-day Residential Course on

Power Market in India

**WAY  
FORWARD**



April 26-28, 2017  
at IIT Kanpur

# Power Market in India Way Forward

## Course Overview:

Indian Energy Exchange (IEX) and Indian Institute of Technology Kanpur (IITK) are organizing a 3-day residential Leadership course on “Power Market in India - Way Forward from 26 - 28 April, 2017. The program will be hosted at IIT Kanpur Campus.

## Course Objectives:

This Course aims to provide insights into the development of electricity markets in India and provide a platform for discussing the challenges and way ahead. The program would:

- Enable participants grasp the Fundamentals of electricity markets.
- Develop insights into the functioning and regulation of power markets.
- Provide hands-on Experience to participants on the working of Power Exchanges.

## Who Should Attend:

The training course has been specifically designed for senior to middle level professionals from industry and practitioners from the entire power sector spectrum including:

- Generation, Transmission and Distribution companies
- Traders
- Financial Institutions and Banks
- Open Access Customers
- Consultants
- Academicians
- Officers of Regulatory commissions

## Our Value Proposition:

The pedagogy of the course aims to synergize theory and practice. The course contents, to be taught by power sector experts and academicians, are supported by insights based on IEX's years of successful energy trading experience and thought leadership from IITK. IEX and IITK plan to adopt interactive methodology for this program to ensure knowledge advancement and intellectual progression for the participants. The program also includes visit around IIT campus including the Solar Energy Research Enclave (SERE).

# Course Agenda

## 26-28 April, 2017

Day 1 – Wednesday, 26 April, 2017	
0830 Hrs. – 0900 Hrs.	Registration
0900 Hrs. – 0915 Hrs.	Inaugural and Overview
0915 Hrs. – 1045 Hrs.	Evolution of Power Markets: Where are we heading? <b>Speaker:</b> Mr. Ravinder, Former Chairperson, CEA
<b>1045 Hrs. – 1115 Hrs.</b>	<b>Tea / Coffee Break</b>
1115 Hrs. – 1300 Hrs.	Economics of Power Markets <b>Speaker:</b> Dr. Anoop Singh, IIT Kanpur
<b>1300 Hrs. – 1400 Hrs.</b>	<b>Lunch Break</b>
1400 Hrs. – 1530 Hrs.	Power Procurement: Planning, Regulation and Practices (long-, medium- and short-term) <b>Speaker:</b> Mr. Sanjeev Mehra, MD, Tata Power Trading Company Ltd.
<b>1530 Hrs. – 1600 Hrs.</b>	<b>Tea / Coffee Break</b>
1600 Hrs. – 1730 Hrs.	Creating a Futures Market for Electricity in India: Way Forward <b>Speaker:</b> Mr. Akhilesh Awasthy, Director (M.O. & I.T.), IEX
1730 Hrs. – 1745 Hrs.	Recap/Assignment
Day 2 – Thursday, 27 April, 2017	
0900 Hrs. – 1030 Hrs.	Developments in Renewable Energy - Current Trends & Future Prospects <b>Speaker:</b> Mr. Vishal Pandya, Director, RE Connect Energy
<b>1030 Hrs. – 1100 Hrs.</b>	<b>Tea / Coffee Break</b>
1100 Hrs. – 1230 Hrs.	Bidding Strategy in Power Markets <b>Speaker:</b> Mr. Neerav Nanavaty, Sr. VP, Engie
<b>1230 Hrs. – 1400 Hrs.</b>	<b>Lunch Break</b>
1400 Hrs. – 1530 Hrs.	Rationalizing Open Access: Procedure & Cross Subsidy Charges <b>Speaker:</b> Mr. Rohit Bajaj, VP, IEX
<b>1530 Hrs. – 1600 Hrs.</b>	<b>Tea / Coffee Break</b>
1600 Hrs. – 1730 Hrs.	Smart Grids and Emergence of A Prosumage Society <b>Speaker:</b> Mr. Reji Kumar Pillai, President, ISGF
1730 Hrs. – 1745 Hrs.	Recap/Assignment
Day 3 – Friday, 28 April, 2017	
0900 Hrs. – 1030 Hrs.	Portfolio Optimization for a Discom/Open Access Consumer <b>Speaker:</b> Dr. Parul Mathuria, IIT Kanpur
<b>1030 Hrs. – 1100 Hrs.</b>	<b>Tea / Coffee Break</b>
1100 Hrs. – 1230 Hrs.	Functioning of Power Exchanges: Regulation, Development and Products <b>Speaker:</b> Mr. Prasanna Rao, VP, IEX
<b>1230 Hrs. – 1400 Hrs.</b>	<b>Lunch Break</b>
1400 Hrs. – 1530 Hrs.	Trading on a Power Exchange: Indian Energy Exchange <b>Speaker:</b> Mr. Prasanna Rao, VP, IEX
<b>1530 Hrs. – 1600 Hrs.</b>	<b>Tea / Coffee Break</b>
1600 Hrs. – 1730 Hrs.	'Hands-on' with Trading Operations
1730 Hrs. – 1800 Hrs.	Valedictory Session

# Distinguished Faculty



**Dr. Anoop Singh**

Dr. Anoop Singh is Associate Professor at Dept. of IME, Indian Institute of Technology Kanpur. He has over 14 years' experience in academics and industry. His areas of interest include infrastructure regulation & policy, power sector regulation, energy/electricity pricing, renewable energy, energy efficiency, energy economics, climate change, project financing and cross-border energy co-operation. He has a number of research papers and three books to his credit. Prior to joining IIT Kanpur, he worked with Haryana Electricity Regulatory Commission.



**Mr. Ravinder**

Mr. Ravinder is former Chairperson and Member (Power Systems), Central Electricity Authority, Ministry of Power, India. He has also served as engineering chief at the CERC for six years. In the course of his career spanning over 40 years, he has been a key person in designing open access, the power exchanges in India and planning of national grid of India. He has also played a key role in the development of cross-border transmission inter-connections with Bangladesh, Bhutan and Nepal and has represented India in the SAARC Expert Groups on Electricity.



**Mr. Sanjeev Mehra**

Mr. Sanjeev Mehra is currently working as Managing Director in Tata Power Trading Company Ltd. He has vast experience of around 32 years in the field of Power Sector. He has completed his B.Tech & P.G. Diploma in Business Management. He has worked in NTPC, thereafter he joined Power Grid Corporation of India Limited. When trading of power was conceived, he joined PTC India Limited where he worked in various functions, and was marketing head of long term and short term trading before joining Tata Power Trading Company Limited in September 2011 as Managing Director.



**Mr. Reji Kumar Pillai**

Mr. Reji Kumar Pillai is the President of India Smart Grid Forum and also the Chairman of Global Smart Grid Federation. He played the pivotal role in formulation of the Smart Grid Vision & Roadmap for India and the launch of a National Smart Grid Mission by Government of India, issue of Model Smart Grid Regulations by Forum of Regulators; and issue of Standards for Smart Meters by Bureau of Indian Standards. He is an internationally renowned expert with over three decades of experience in the electricity sector in diverse functions covering the entire value chain and across continents.



**Mr. Akhilesh Awasthy**

Mr. Akhilesh Awasthy is a professional with long qualitative and enriching techno - commercial experience in the power sector. He has led a multi disciplinary team for implementation of India's first Power Exchange, Indian Energy Exchange, and presently he is working as Director (Market Operations & IT). He has devised systems and procedures for operations of the exchange which is catering to more than 3000 grid connected entities, flawlessly. Presently he is working on various solutions to address issues affecting implementation of Open Access, non implementation of which is hampering development of Power Market in the Country. He has done his Master in Electrical Engineering and is a Cost & Management Accountant (CMA).



**Mr. Vishal Pandya**

Mr. Vishal Pandya is an alumnus of IIT Bombay with specialization in power systems & power electronics. He brings good understanding on regulations, power system studies, market models, programming, algorithms and renewable energy. He has worked with IEX (business development) and L&T (power transmission and distribution) and is co-founder of REConnect, India's largest REC Trading Company and also with largest service portfolio in Wind Power Forecasting and Scheduling.

# Indian Energy Exchange (IEX)

IEX is India's premier power trading platform. Providing a transparent, neutral, demutualized and automated platform for physical delivery of electricity, IEX enables efficient price discovery and counter-party risk management for participants of the electricity market, including industries eligible for open access.

Today, about 4000 participants across utilities from 29 States, 5 Union Territories (UTs), 1000+ private generators (both commercial and renewable energy) and more than 3500 open access consumers are leveraging the Exchange platform to manage their power portfolio in the most competitive and reliable way.

Department of Industrial and Management Engineering (IME),

## Indian Institute of Technology Kanpur

The Dept. of IME aims to provide quality management education through MBA, M.Tech. and Ph.D. programs. Power sector reform and regulation is one of the key research and teaching areas in the department. The department provides regulatory and policy inputs to relevant electricity regulatory commissions and ministries. It also conducts regular program related to power sector regulations, renewable energy and power markets. Details of some the previous courses and publications can be accessed from [www.iitk.ac.in/ime/anoops](http://www.iitk.ac.in/ime/anoops)



Solar Energy Research Enclave, IIT Kanpur



Department of IME, IIT Kanpur

# Registration Form

Name & Designation:			
Organization/Company (For Invoice):			
Address (For Invoice):			
City:	Pincode:	Country:	
Fax:	Mobile:	Phone:	
Email:			

## Details of Delegates

S.No.	Name	Designation	Email ID	Mobile No.

## Registration Fees

Fees	INR
For Delegate	60,000

\*Service tax extra (15%) on registration fee mentioned above.

#A limited number of academic participants may be given a 20% fee discount on base fee (service tax applicable).

**Registration would be confirmed on receipt of the payment on first-come-first-serve basis. There are limited seats for the course, therefore it is suggested that you book your seats early.**

The Registration Fee includes:

- The participation fees and course material
- 3-Nights single AC accommodation at IIT Kanpur
- 3-Days boarding charges including all meals, tea/coffee break
- Pick-up and drop from/to airport/railway station in Kanpur or in Lucknow

### Payment Details:

#### Via Cheque/Demand Draft

Cheque/DO should be drawn in favor of Indian Energy Exchange Limited, par payable at New Delhi.

#### Transfer Online

**Beneficiary:** Indian Energy Exchange Limited

**Bank Account Number:** 15770340006939

**Bank Name:** HDFC Bank Limited

**Account Type:** Current A/c

**Branch:** Fort, Mumbai

**IFSC Code:** HDFC0000060

(Please email/fax the duly filled in form to: Mr. Manish Arya at [training@iexindia.com](mailto:training@iexindia.com)/+91-11-43004015)

### IEX COURSE CO-ORDINATOR

Mr. Manish Arya

### INDIAN ENERGY EXCHANGE LTD.

**REGISTERED AND CORPORATE OFFICE:** Unit No. 3-6 Fourth Floor, Plot No. 7,

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### IITK COURSE CO-ORDINATOR

Dr. Anoop Singh, Associate Professor, Department of Industrial & Management Engineering

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