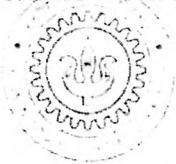


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**Centre for Energy Regulation**  
 Department of Industrial and Management Engg.  
 Indian Institute of Technology Kanpur  
 Kanpur – 208 016

23<sup>rd</sup> Jan. 2020

Mr. Sanoj Kumar Jha  
 Secretary, Forum of Regulators,  
 C/O Central Electricity Regulatory Commission (CERC)  
 3<sup>rd</sup> & 4<sup>th</sup> Floors, Chanderlok Building,  
 36, Janpath, New Delhi 110001

**Sub: Feedback for 13<sup>th</sup> Capacity Building Programme for Officers of Electricity  
 Regulatory Commissions on "Emerging Regulatory Issues in the Power Sector:  
 Tariff, Technology and Consumer Choice", 7th – 9th Jan. 2020 at IIT Kanpur**

Dear Mr. Jha,

This is with reference to the 13<sup>th</sup> Capacity Building Programme for Officers of Electricity Regulatory Commissions on "Emerging Regulatory Issues in the Power Sector-Tariff, Technology and Consumer Choice" from 7th – 9th Jan. 2020 at IIT Kanpur. We would like to thank the Forum of Regulators for giving us responsibility to organize the above programme. The speakers were experts in their respective areas.

We are pleased to inform you that the programme was conducted successfully as per the FOR's requirements. The programme agenda and speakers were finalized in consultation with the FOR. I am enclosing herein the programme schedule, a list of speakers, a list of participants, a group photograph and a kit of the program including the session handouts on a pen drive.

It is encouraging to mention that the programme was well appreciated by the participants. A detailed feedback was obtained from the participants. A summary of the feedback is enclosed for your reference. The participants have also given specific feedback/suggestions for design of similar activities in future. These are also provided for necessary action at your end. We would be pleased to provide any assistance, if required.

We thank you for keeping confidence in our abilities to organize this programme. We hope to undertake similar tasks in future as well. We would also like to request to release the final installment as well. An invoice towards the same is enclosed herein.

Thanking You

(Anoop Singh)  
 Programme Coordinator

- Encl: 1- Final Programme Schedule  
 2- Feedback Score Tables  
 3- Detailed Feedback  
 4- List of Participants

**Report on Feedback for the 13<sup>th</sup> Capacity Building Programme for Officers of Electricity  
Regulatory Commissions on Emerging Regulatory Issues in the Power Sector:  
Tariff, Technology and Consumer Choice**

**Table: Overall Feedback of the Programme**

Question	Score			Better than expectation		
	Average	Min	Max	Yes	No	As Expected
<b>1a</b>	4.86	4.00	5.00			
<b>1b</b>				7	0	7
<b>2a</b>	4.14	3.00	5.00			
<b>2b</b>				2	5	7
<b>3a</b>	4.29	3.00	5.00			
<b>3b</b>				4	3	7
<b>4a</b>	4.36	3.00	5.00			
<b>4b</b>				2	1	11
<b>5a</b>	4.14	3.00	5.00			
<b>5b</b>				4	2	8

**Table: Session-wise Feedback of the Programme**

	SUMMARY				
	Day 1 - Average Score				
Question	Session I (Dr. Anoop Singh)	Session II (Dr. Anoop Singh)	Session III (Mr. Anup K. Dutta)	Session IV (Dr. Anoop Singh)	Session V (Mr. Buddy A. Ranganadhan)
1	4.69	4.56	4.50	4.69	4.13
2	4.88	4.69	4.38	4.75	4.44
3	4.88	4.94	4.31	4.75	4.81
4	4.75	4.56	4.44	4.75	4.63
	Day 2 - Average Score				
Question	Session I (Dr. Anoop Singh)	Session II (Dr. Anoop Singh)	Session III (Ms. Kumud Wadhwa)	Session IV (Dr. Anoop Singh)	
1	4.69	4.69	4.69	4.75	
2	4.69	4.75	4.50	4.75	
3	4.81	4.88	4.63	4.81	
4	4.63	4.81	4.69	4.81	
	Day 3 - Average Score				
Question	Session I (Mr. Manoj Mathur)		Session II (Dr. Anoop Singh)		Session III (Mr. Ranjeet Bhavirkar & Mr. Dheer Patel)
1	4.56		4.69		4.81
2	4.50		4.56		4.69
3	4.63		4.69		4.63
4	4.63		4.69		4.69

**Summary of Specific Feedback by Participants** ✓

- 1) Simulation game was interesting experience.
- 2) Better if schedule of training is fixed so that either it starts on beginning of week or closed on last working day of week. It may save 1 or two working days of participants.
- 3) Sessions will have more added value if it will be based on Case Studies/real time issue. In Retail tariff design, comparative analysis of best SERCs practices should be done. Some speakers were not available.
- 4) All the sessions were informative and very good, some are fantabulous, the vision of CER especially the data analysis and market research by the lab will make sense to DISCOM in future and going to rock it, even though it is perfect there is room for betterment. Better to have sessions with specific slides PPT. Follow up may be done to keep the agenda in. Brain storming sessions can be linked with online discussion forums for better involvement.
- 5) No. of days of programme may be more.
- 6) More resource persons (domain specific) i.e., Ministry, Generation, RE, Power Exchange, etc., can be invited to share their views on the issues and way forward for it.
- 7) Major focus should be on the regulatory matters.



### List of Participants

**13th Capacity Building Programme for Officers of Electricity Regulatory Commissions  
on "Emerging Regulatory Issues in the Power Sector: Tariff, Technology and  
Consumer Choice", 7th – 9th Jan. 2020 at IIT Kanpur**

S. No	Name	Designation	Organization
1.	Dr. T. Prabhakara Rao	Member	Tamil Nadu Electricity Regulatory Commission
2.	Mr. Dharmendra Mishra	Secretary	Arunachal Pradesh Electricity Regulatory Commission
3.	Mr. Raj Kumar	IFA	Central Electricity Regulatory Commission
4.	Mr. Amit Khare	Joint Director (RE)	Madhya Pradesh Electricity Regulatory Commission
5.	Mr. A.K. Jagadev	Deputy Director (Tariff-Engineering)	Odisha Electricity Regulatory Commission
6.	Mr. Yashwardhan Dimri	Deputy Director (Technical)	Uttarakhand Electricity Regulatory Commission
7.	Mr. C. Kannaiah Naidu	Deputy Director (Transmission)	Andhra Pradesh Electricity Regulatory Commission
8.	Ms. Ankita Mahajan	Deputy Director (Finance)	Haryana Electricity Regulatory Commission
9.	Mr. Jayjeet Bezbaruah	Assistant Director	Assam Electricity Regulatory Commission
10.	Mr. Santosh Kumar Asipu	Assistant Director	Gujarat Electricity Regulatory Commission
11.	Mr. Arnab Dey	Assistant Director (Engineering)	West Bengal Electricity Regulatory Commission
12.	Mr. P.T. Prakash Kumar	Assistant Director (Technical)	Kerala State Electricity Regulatory Commission
13.	Er. Ravinder Bisht	Assistant Engineer	Himachal Pradesh Electricity Regulatory Commission
14.	Mr. Vineet Parashar	Research Associate	Joint Electricity Regulatory Commission (Goa & UT)
15.	Ms. Punam Rabha	Staff Consultant	Arunachal Pradesh Electricity Regulatory Commission
16.	Mr. Dibyatanu Sengupta	Staff Consultant	Arunachal Pradesh Electricity Regulatory Commission
17.	Mr. Rahul Kumar	Staff Consultant	Arunachal Pradesh Electricity Regulatory Commission

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## **13<sup>th</sup> Capacity Building Programme for Officers of Electricity Regulatory Commissions**

January 7 – 9, 2020

IIT Kanpur

### **Emerging Regulatory Issues in the Power Sector – Tariff, Technology and Consumer Choice**

Organised by

**Centre for Energy Regulation (CER)**  
Department of Industrial and Management Engineering  
Indian Institute of Technology Kanpur

Venue

**IME-104, Dept. of Industrial and Management Engineering, IIT Kanpur**

Knowledge Partner





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## Agenda

### 13<sup>th</sup> Capacity Building Programme for Officers of Electricity Regulatory Commissions

January 7 – 9, 2020 | IIT Kanpur

### Emerging Regulatory Issues in the Power Sector – Tariff, Technology and Consumer Choice

Day 1: January 7, 2020 (Tuesday)	
08:30 – 09:00	<b>Registration</b>
09:00 – 09:15	<b>Opening Ceremony</b>
09:15 – 11:00	<b>Economic Foundations to Power Sector Regulation</b> Dr. Anoop Singh, Centre for Energy Regulation, IIT Kanpur
11:00 – 11:30	<b>Tea / Coffee Break</b>
11:30 – 13:00	<b>Distribution Tariff Design: Methodological Approach</b> Mr. Anup K. Dutta, Director (Engg.), WBERC
13:00 – 14:00	<b>Lunch Break</b>
14:00 – 15:00	<b>Economics of Tariff Setting : Beyond Cost of Service</b> Dr. Anoop Singh, Centre for Energy Regulation, IIT Kanpur
15:00 – 16:00	<b>Site / Field Visit to Flight Lab</b>
16:00 – 16:30	<b>Tea / Coffee Break</b>
16:30 – 18:00	<b>Legal and Commercial Aspects of Tariff: A Snapshot of Recent APTEL &amp; SC Orders</b> Mr. Buddy A. Ranganadhan, Lawyer, Supreme Court



Day 2: January 8, 2020 (Wednesday)	
09:00 – 11:00	<b>Power Market: Fundamentals and Recent Developments</b> Dr. Anoop Singh, Centre for Energy Regulation, IIT Kanpur
11:00 – 11:30	<b>Tea / Coffee Break</b>
11:30 – 12:00	<b>Introduction to CER, EAL and Online Discussion Forum (ODF)</b> Mr. Kamal Kumar Gupta, Energy Analytics Lab, IIT Kanpur
12:00 – 13:00	<b>Long Term Demand Forecasting: UPPCL Case Study</b> Dr. Anoop Singh, Centre for Energy Regulation, IIT Kanpur
13:00 – 14:00	<b>Lunch Break</b>
14:00 – 15:30	<b>Smart Grid: Implementation, Challenges and Way Forward</b> Ms. Kumud Wadhwa, Senior General Manager, NPMU
15:30 – 16:00	<b>Tea / Coffee Break</b>
16:00 – 17:30	<b>Regulatory Brainstorming Session – 1</b> Dr. Anoop Singh, Centre for Energy Regulation, IIT Kanpur
20:00 – 22:00	<b>Welcome Reception</b>
Day 3: January 9, 2020 (Thursday)	
09:00 – 11:00	<b>Competitive Bidding for Renewable Energy: Experience from the Solar and Wind Sector</b> Mr. Manoj Mathur, Director (Solar), SECI
11:00 – 11:30	<b>Tea / Coffee Break</b>
11:30 – 12:30	<b>Regulatory Brainstorming Session – 2</b> Dr. Anoop Singh, Centre for Energy Regulation, IIT Kanpur
12:30 – 13:00	<b>Site Visit to Smart Grid Centre, IIT Kanpur</b>
13:00 – 14:00	<b>Lunch Break</b>
14:00 – 16:00	<b>Market Simulation Game</b> Mr. Dheer Patel, Fellow, The Regulatory Assistance Project
16:00 – 16:30	<b>Tea / Coffee Break</b>
16:30 – 17:00	<b>Valedictory Function</b>
17:00 – 17:30	<b>Site Visit to Solar Energy Research Enclave (SERE), IIT Kanpur</b>