

National Tutorial on Smart Grid Standards – Specifications, Requirements and Technologies

Date: 18th - 19th January 2023

Venue: Conference Hall, CBIP, New Delhi



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New Delhi
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ANNOUNCEMENT

The Central Board of Irrigation and Power is organizing a National Tutorial on “**Smart Grid Standards – Specifications, Requirements and Technologies**” on 18th - 19th January 2023 at Conference Hall, CBIP, Malcha Marg, Chanakyapuri, New Delhi – 110021.

TOPICS TO BE COVERED

The eminent faculty on the subject is Shri N. Murugesan, Former Director General, CPRI – Bangalore. The topics to be covered in the Tutorial are as follows:

- Evolution of Energy Systems, Concept, Definitions and Need, Difference between Conventional and Smart Grid, Drivers, structures, functions, opportunities, challenges
- An Overview of the Smart Grid development and Smart Grid-Related Organizations
- Impact of Renewable Energy Generation, Renewable Energy Systems on the Smart Grid
- Challenges of integrating Intermittent Renewable Energy Systems to the existing Power System
- An Overview of the Power Grid Systems and important Key Standards for the Power Grid and Energy Management Systems
- Building Block 1: Smart Home and Building Automation Standards
- Building Block 2: Smart Meter and Advanced Metering Infrastructure and the Standards
- Communication Requirements for the Smart Grid
- Building Block 3: Communication System requirements for the Smart Grid, review of Wired Communication, Wireless Communication and Satellite Communication to meet various requirements various building blocks of Smart Grid.
- Building Block 4: Sub-Station and Distribution Automation and the Standards
- Transmission System, EHV, HVDC systems, Wide Area Monitoring Protection and Control and Standards
- Building Block 5: Standards for Communication system in Smart Grid
- Building Block 6: Standards pertaining renewable energy and other energy systems like Solar, Wind, Hydro, and fuel cell
- Building Block 7: An Overview of Electric Storage Technologies and Applications and Standards
- Building Block 8: Importance of E-Mobility/Electric Vehicles, impact on the Grid and Standardization
- Overview & Evolution of MICROGRID - Issues & Challenges and Standards
- Renewable Energy Based Distribution Generation & Smart Grid of the future
- Analysis of Relationships among Related Standards
- Demand Response Technology and Barriers and Standardization Efforts Related to Demand Response
- Threats and Vulnerabilities of Smart Grids
- Building Block 9: Security and Safety Standardized Smart Grid Networks
- International and National Standards for Interoperability
- Future of the Smart Grid
- Comprehensive list of international Standards to implement Smart Grid

WHO SHOULD ATTEND

The tutorial is open to various Utilities and Industry Organizations/ Individuals in the field of Power Systems.

DATE AND VENUE

The tutorial will be held on 18th - 19th January 2023 at Conference Hall, CBIP, Malcha Marg, Chanakyapuri, New Delhi – 110021.

The tutorial timings will be 10.00 AM to 5.30 PM for both days. The registration will start at 9.00 AM on 18th January 2023.

REGISTRATION FEE

All those who wish to participate in the tutorial are expected to register in advance by sending the details through email to the organizers along with payment of registration fee as follows:

1. Non – Member fee is Rs. 12,000/- per participant
2. Discounted fee for Members of CBIP is Rs. 10,000/- per participant
3. Special Discounted fee for students is Rs. 3,000/- per student

GST @ 18% shall be charged extra GST No. 07AAAJC0237F1ZU

The Registration fee covers the registration kit, tea/coffee/lunch during the tutorial. The tutorial is non-residential. Participants will have to make their own arrangements for travel, boarding and lodging etc.

All payments be made through cheque at par in favour of 'Central Board of Irrigation & Power', payable at Delhi or amount deposited/ transferred to HDFC Bank, CBIP A/c no. 00031110004411, MICR No. 110240001, Swift Code : HDFCINBBDEL, IFSC: HDFC 0000003, Address: 209-214, Kailash Building, 26 Kasturba Gandhi Marg, New Delhi – 110001

After making of the payment online in respect of the event, the details like UTR/Organization name to be furnished immediately.

ABOUT FACULTY



N. Murugesan, Former Director General, CPRI, Bangalore

He has about 42 years of experience in the area of Switchgear Testing & Certification (Low & High Voltage Equipment) as per National & International standards, Transmission & Distribution System, Standardization, Establishing Testing and Certification facilities all over India for Communication Protocol, Substation Automation, Distribution Automation, SCADA, Smart Meters, Smart Grid etc. Supervised about 200 Research Projects & Consulting work including field works. Expanded Research and Testing & Certification facilities for Electrical equipment as per National and International Standards across India to meet growing demands of Power Industries.

He established IEC 62056 lab for Energy Meters (DLMS) and IEC 61850 (Utility Automation) labs in CPRI. He was instrumental to establish many Smart Grid laboratories such as PMU lab, Smart Grid Test bed etc. Member to draw specification and supervise implementation of KPTCL Extended-SCADA (covering more than 1200 sub-stations) and associated with establishment of Bangalore Distribution Automation System (DAS). Convenor and Member, LITD-10 to bring out BIS-16335 (Power Control System- Security), 15953, 15654 (SCADA), Chairman/ Member, ETD-13 to bring out BIS-16444 (Smart Meter), 15959, Chairman- Working Group-1 (Trials / Pilots on New Technology of India Smart Grid Task Force), Member Working Group-V (Physical, Cyber Security, Standards & Spectrum) on India Smart Grid Task Force.

For further details, please contact the Event Secretariat.

EVENT SECRETARIAT

Shri A.K. Dinkar, Secretary, CBIP

Shri Sanjeev Singh, Director (Energy), CBIP

Central Board of Irrigation and Power, Malcha Marg, Chanakyapuri, New Delhi - 110021
Phone: 011-26115984/2687 6229/2688 0557; Fax: 011-2611 6347; Website : www.cbip.org

Contact Person

Shri Vishan Dutt, Chief Manager, CBIP – M : 9811431554, E-mail: vishandutt@cbip.org

Shri S.K. Batra, Consultant, CBIP – M : 9811943812, E-mail: batra@cbip.org

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REGISTRATION FORM

(To be filled in block letters preferably)

1. Name : _____
2. Position : _____
3. Organization : _____
4. Address : _____
5. Phone : _____ Fax No. _____
6. Email : _____

Dated _____

Signature _____

Details/ Amount of Registration fee Paid:

All payments should be made by cheque at par/Demand Draft drawn in favour of "Central Board of Irrigation and Power", payable at New Delhi OR by transfer the amount to HDFC Bank, Address: 209-214, Kailash Building, 26 Kasturba Gandhi Marg, New Delhi 110001; Saving Bank Account No. : 00031110004411; Swift Code: HDFCINBBDEL; IFSC: HDFC 0000003; MICR Code: 110240001. (GST No. 07AAAJC0237F1ZU).

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Registration Form, duly filled in, is to be mailed to the following address:

Secretary

Central Board of Irrigation and Power, Malcha Marg, Chanakyapuri, New Delhi 110 021, India

Tel: 91-11-26115984/26116567 Fax: 91-11-26116347

E-mail: vishandutt@cbip.org; batra@cbip.org Web-site: <http://www.cbip.org>

Note:

- Photocopies of the registration form can be used for additional requirements, if any.
- Spot registration facilities will also be available, provided the prior information is received.