



Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)

Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. TS, India

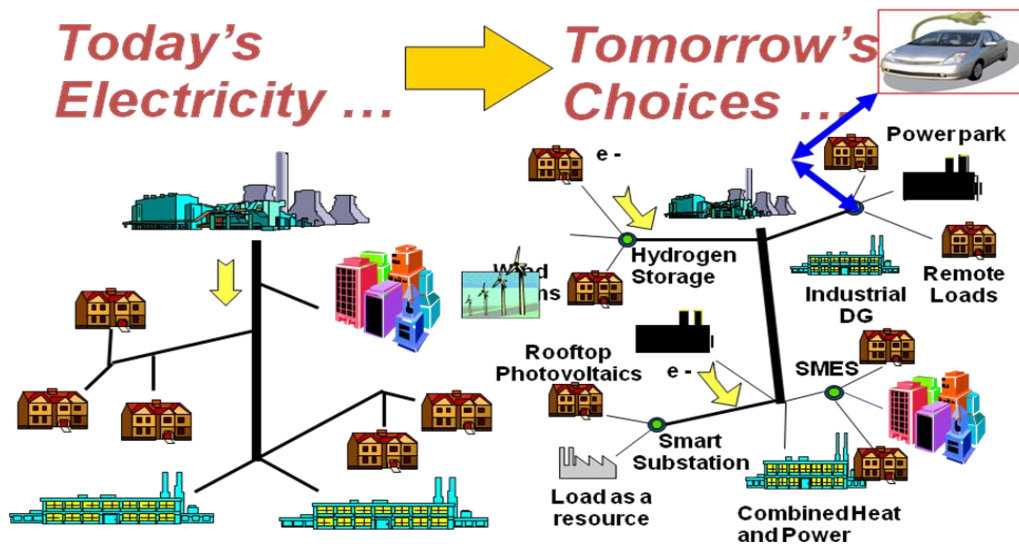


POWER & ENERGY DIVISION

Continuing Professional Development Programme on

Smart Grid & Smart Metering Technologies and Applications

29-31 July 19



(An ISO 9001:2008 Certified, AICTE & CEA Recognized Institution)

Centre for Promotion of Professional Excellence

INTRODUCTION

The present Electrical Power system has grown over many years. Electronic or intelligent components, Automation in the form of SCADA, IT for Metering, Billing & Collections, remote meter reading are introduced to improve operational easiness, better performance etc as well as to manage the growing consumer base. But the power sector continuously finds itself unable to meet the required demand. The SMART GRID is expected to help in realizing better management of power system operations with participation of all Stakeholders.

The Smart Grid aims to modernize today's grid which is aging, unreliable, susceptible & silent to all forms of disturbances. The smart Grid concept offers several characteristics (I) Self healing and adaptive. (II) Distributed Generation (III) Interactive with consumers (IV) Optimized to make best use of resources and equipment (V) predictive rather than reactive.

OBJECTIVE

The objective of this course is to provide deep insight in to the concept of Smart Grids and Smart Meters Modernizing today's grid to smart grid, gain the advantages of Smart Meters and to provide quality, reliable power supply to all consumers.

COURSE COVERAGE

- Introduction and basic on Smart Grids and Architecture.
- Smart Meters – Key components - Function
- Performance Requirement and Reliability of Smart Meters
- Performance of Smart Meters with Influential Parameters
- Latest Trends and Recent Developments in Smart Meters & Smart Grids, Technologies – Issues & Challenges.
- AMI & MDMS
- DLMS and Inter Operability Standards
- Smart Meters – Demo
- Power Theft Control - Smart Meter Philosophy
- Role of IOT in smart grids
- Smart Grid & Smart Meters Communication.
- Cyber Security
- Smart grids in Transmission System – PMU – WAMS

METHODOLOGY

The programme will be conducted in an interactive environment providing greater scope for discussions. Emphasis will be on a highly participative style of learning. The classrooms are provided with latest audio – visual teaching aids. The ambience in the campus and classrooms facilitate in effective learning by participants.

FACULTY

Apart from Core Internal Faculty, Consulting Firms, Government Organisations, Manufacturing, Academic and Research Institutions etc. will share the sessions.

TARGET PARTICIPANTS

Power Engineers and Managers from Power Utilities both Private and Public, Organizations connected with Transmission and Distribution Companies.

PROGRAMME VENUE, DATES & TIMINGS

Engineering Staff College of India (ESCI) Campus, Old Bombay Road, Gachi Bowli, Hyderabad - 500032, Telangana, India.

DATES

29 - 31 July 19

TIMINGS

On the first day registration will commence at 0900 Hrs. On all other days the programme timings will be from 0945 to 1715 hrs with breaks in between for tea and lunch.

ACCOMMODATION

Participants will be accommodated in our Executive Hostel located within ESCI Campus. The accommodation will be on twin sharing basis.

COURSE DIRECTOR

R V Chalapathi

Senior Faculty - Power & Energy Division, ESCI

RESOURCE PERSON

Prof. C Balasubramanya

Presently working as a professor SMART GRID & SMART METERS in teaching stream and a free-lance consultant in providing metering after retirement from the services of BHEL, Bangalore

COURSE FEE

Residential Fee is Rs.15,000/- per participant. Residential fee includes Course Material, Course Kit, and Twin-sharing / Single AC accommodation as per availability, Breakfast, Lunch, Dinner, Tea / Coffee and Snacks.

DISCOUNTS

Non-Residential Fee: 10% discount on course fee is allowed for non-residential participants.

Group Discount: 10% discount for three or more participants if sponsored by the same organization.

(All discounts are applicable only if fee is received at ESCI a week before the commencement of the programme)

GST @18% (as applicable) is to be paid extra over and above the training fee. ESCI's **Provisional ID No. 36AAATT3439Q1ZV, PAN Card No. AAATT3439Q.**

The course fee is to be paid in favour of "**IE (I) – ENGINEERING STAFF COLLEGE OF INDIA**" in the form of demand draft payable at Hyderabad.

Alternatively the payment may be made by **Electronic Fund Transfer (EFT) to ESCI – SB A/c No. 33705165550** with The SBI, Manikonda Branch, Gachi Bowli, Hyderabad – 500 032 by **NEFT / RTGS / IFSC Code No: SBIN0011076 – MICR No: 500002107**. While using EFT method of payment, please ensure to communicate us your company name, ESCI invoice reference and programme title.

Online registration is available on ESCI website. To register, manually please send your nominations (**10 days** prior to date of commencement of the programme) giving details of name, designation, contact address, email address, mobile number, telephone and fax number of the participant along with the details of mode of payment of fee, addressed to:

Head, Power & Energy Division

Engineering Staff College of India

Gachi Bowli, Hyderabad – 500 032

Phone: 040 – 6630 4170 to 4177; 040-6630 4100, Fax: 040 – 23000336, 66304103

Email:pe.esci@gmail.com / pe@escihyd.org; Website: www.escihyd.org

CERTIFICATE: A certificate of participation will be awarded to each participant on conclusion of the programme.

GENERAL INSTRUCTIONS

- ESCI encourages participants to present case studies from their respective organizations.
- For the convenience of the outstation participants ESCI will facilitate pickup and drop from Airport / Railway Station / Bus Stations, if travel plans are received at least 3 days in advance along with mobile number by fax or email. The charges shall be paid by the participants directly to the cab driver.
- ESCI provides complimentary accommodation to participants a day prior to the commencement and after the conclusion of the programme. (Check in at 12:00 hrs a day prior to the commencement & check out at 12:00 hrs a day after completion of the programme)
- Overstay charges of @ Rs.990/- per day / per head including hospitality (Bed Tea / Coffee to Dinner) will be charged.
- Well developed Information Centre and Internet facilities are available to the participants free of cost.