

Workshop on
**Technical and Testing
Challenges for Smart Meters**

2 - 3 November 2017

Venue : CBIP Conference Hall, New Delhi



Organised by



Central Board of
Irrigation & Power



National Smart Grid Mission
Ministry of Power
Government of India

National Smart Grid Mission

Supported by



INTRODUCTION

The Central Board of Irrigation & Power and National Smart Grid Mission are organizing Workshop on Technical and Testing Challenges for Smart Meters on 2 - 3 November 2017 at Conference Hall of Central Board of Irrigation & Power, Malcha Marg, Chanakyapuri, New Delhi 110021.

AIMS AND OBJECTIVE

The electricity distribution business is changing. It is no longer the conventional electricity supply chain starting from generation, passing through transmission and distribution system and finally to consumer meter and home. In the New system, one can expect increased penetration of “Distributed Energy Resources (DER)” like roof top solar, battery response, electric vehicle, more “Consumer Engagement” for demand response and remote load control, Net Metering, dynamic pricing and finally “Big Data Analytics”.

The economic, societal and environmental cost of unreliable power supply is prohibitive. Also consumer expectations are rising for better and faster consumer services.

To address these issues and expectations, the solution lies in use of Information Communication Technology (ICT) to make grid smarter, flexible and utilities more responsive. Smart meter is one of key components of Smart Grid.

Incidentally Smart metering/AMI is a concept; it is a technology solution and not a standard product. It can vary as per need and maturity level of utility. The purpose of Smart metering/AMI technology is to address need and expectation and to improve efficiency. Since need of each utility is different, so smart metering solution can have tailor made variations?

Many utilities in India are planning to go for smart metering/ smart grid. This workshop is planned to review the Need, expectation from smart grid and then to discover the required features and functionality of smart meters to achieve the objective. The purpose is also to review features which have lost relevance but may be part of specification as tradition and may add cost or bring complexity.

Procurement of Smart Meters with additional features and functionality is not enough, it is equally important that these features and functionality should be checked for its capabilities and reliabilities. Utilities also need to take up requisite Business Process Re-engineering for the required outcomes. The prime objective of this two day Workshop is to build upon the AMI guidelines issued by CEA to develop testing and implementation guidebook for Smart Meters. Following sessions are planned during the event :

- **Session 1 : Need of Smart Metering**
 - o Present utility operational issues and transformation need
 - o Expected Changes in electricity business scenario
 - o Emerging role of consumers including as Prosumer
- **Session 2 : Expectation from Smart Metering**
 - o Flexible power management in light of RE&DR
 - o Reliable supply and Better outage management
 - o Lower operation cost
- **Session 3: Feature and Functionality in Smart Meters**
 - o Consolidation of features and functionality as specified by key agencies – BIS, CEA
 - o Review of optional features and functionality to categorize in must, preferred and obsolete/redundant features
 - o New DISCOM business and connect disconnect feature
- **Session 4: Test Method to Ensure Suitability, Functionality and Reliability of Add on Features of Smart Meter as Compared to Static meters**
 - o Test of additional hard ware and measurement
 - o Test of software and commands
 - o Testing of overall reliability – identifying weak links

- **Session 5 : Preparation for Smart Meters Deployment**
 - o Smart metering road map – measurable Objective and identifying technology
 - o Need of skilled manpower
 - o Planning for consumer acceptance
 - o Installation guidelines of smart meters
- **Session 6 : Debatable aspect of Smart Metering**
 - o Loss reduction – Myths and facts
 - o What bring smartness – smart meter or smart analytics
 - o ABC analysis for cost of smart meter
- **Session 7 : Consolidation of day 1 and day 2 discussion**

DATES AND VENUE

The Workshop will be held on 2 - 3 November 2017 in the Conference Hall of Central Board of Irrigation & Power, Malcha Marg, Chanakyapuri, New Delhi - 110 021.

The Workshop timing will be 9.30 am to 5.00 pm on both the days.

CALL FOR PAPERS

Experts who desire to participate by delivering lectures on the Topics mentioned including case studies are requested to furnish the write-ups to reach CBIP office latest by 5th October 2017.

WHO SHOULD ATTEND

The workshop will be of special interest to:

- Planners, Independent power producers, Operators, Consultants, Electrical Contractors
- Researchers / Academicians, Manufacturers, Power Utilities / Corporations, State Govt. / SEBs, etc.

REGISTRATION FEES

| | Registration fee per participant | Discounted fee per participant | |
|--------|----------------------------------|--------------------------------|------------------------------|
| | | CBIP/CIGRE Members and Authors | For participants from DISCOM |
| Amount | Rs. 12,000/- | Rs. 10,000/- | Rs. 6,000/- |

GST : 18% extra.

The workshop is non-residential.

The registration fees includes, working lunch, tea during the programme, a copy of the workshop proceedings (including software for evaluation of grid current and two layer soil model). The participants will have to make their own arrangements for boarding and lodging, transport etc. at New Delhi.

OTHER ATTRACTIONS

Scope exists for organizations to be sponsor on lump sum payment with following benefits:

| Category | Fee | Delegates free | Coloured Advt. |
|------------|--------------|----------------|----------------|
| Sponsor | Rs. 2,00,000 | 8 | 2 pages |
| Co-sponsor | Rs. 1,00,000 | 4 | 1 page |

PAYMENTS

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, 209-214, Kailash Building, 26 Kasturba Gandhi Marg, New Delhi 110 001

Saving Bank Account No. : 00031110004411 Swift Code: HDFCINBBDEL

IFSC: HDFC 0000003

MICR Code: 110240001

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REGISTRATION FORM

(To be filled in block letters preferably)

Delegate _____

(Surname)

(First Name)

Designation _____

Name of Organisation _____

Mailing Address _____

City _____

State _____ PIN _____

Phone _____ Fax _____

E-mail _____

Dated _____

Signature _____

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

Shri V.K. Kanjlia

Secretary

Central Board of Irrigation and Power

Malcha Marg, Chanakyapuri, New Delhi 110 021, India

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

Email : batra@cbip.org cbip@cbip.org Web-site: <http://www.cbip.org>

Contact Person : S.K. Batra, Chief Manager, M : 9811943812

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.