5th Annual Conference on

METERING IN INDIA

May 23-24, 2018, The Grand, Vasant Kunj, New Delhi

Organisers:

PowerLine | Smart Utilities

Supported by:

ERDA

METERING IN INDIA

Mission

- The role of metering in India has evolved significantly over the years. Besides helping utilities in energy accounting and revenue management, it plays a crucial role in the reduction of power losses, integration of renewable energy and load management.
- With its various programmes such as the Ujwal Discom Assurance Yojana (UDAY), the Integrated Power Development Scheme and the Deendayal Upadhyaya Gram Jyoti Yojana, the government is focusing on achieving 100 per cent metering. At an all-India level, around 89 per cent of the consumers are metered and more than half of the public discoms have achieved over 90 per cent consumer metering. As per government directives, no new connections are to be released without meters.
- In September last year, the government launched Saubhagya scheme with the aim of providing access to electricity to all households in the country. With about 34.5 million households yet to be electrified, this means significant market opportunities for metering manufacturers.
- In the recent past, a lot of emphasis has been laid on the use of prepaid and smart meters. At the Conference of Power and New & Renewable Energy Ministers of States and UTs held on December 7, 2017, the government reiterated the need to adopt prepaid and smart meters to bring down the AT&C losses. The installation of prepaid meters has been made mandatory for various government departments. Most of the states have already initiated the installation of smart meters.
- In a significant initiative, Energy Efficiency Services Limited (EESL) is implementing the Smart Meter National Programme, under which it plans to replace 250 million conventional meters in the country with smart meters through bulk procurement. To this end, EESL launched a mega tender to procure 5 million smart meters in July 2017 to be installed in Haryana and Uttar Pradesh. The contract for the same has been awarded to Indian Telephone Industries (ITI).
- With increase in the deployment of smart meters, there will be huge volumes of data available with the utilities. To this end, the meter data management system (MDMS) has an important role to play. MDMS not only helps in data acquisition and storage, but also enables data analysis, thereby providing data to be used for various applications such as billing, network planning and load management.
- Going forward, advanced metering infrastructure (AMI) is expected to be the key focus area of the utilities. It is estimated that around 50 million consumers will be covered under AMI by 2020. To facilitate the implementation of AMI in India, the CEA has formulated guidelines on the functional requirements of AMI as well as advised the states about the roll-out strategy. AMI is also being demonstrated as a key component of the smart grid pilot projects funded by the Ministry of Power.
- Another big opportunity in the metering segment is for net meters. Net metering assumes a critical role in light of the 40 GW solar rooftop capacity target to be achieved by 2022.
- Despite the numerous initiatives that are under way, the progress in metering has not been up to the mark. As of February 27, 2018, only about 1.4 per cent of the targeted smart meters have been installed for consumers under the UDAY scheme. The major reasons for the slow progress have been high investment costs, and the lack of expertise and experience of the discoms.
- Further, a number of issues including interoperability, standardisation and quality of meters, meter tampering and power theft continue to afflict the segment. However, various technological innovations, including the development of high security seals and sensors, have taken place to address these issues.
- Going ahead, improvement in the financial position of discoms with the implementation of UDAY is expected to promote investment in metering. Meanwhile, the implementation of advanced metering technologies as part of the various ongoing pilot projects, and the development of innovative business models are likely to provide the necessary push for a faster adoption.
- **The mission of this conference is to provide a platform for key stakeholders to discuss the metering requirements, challenges and opportunities in India. The conference will also highlight various aspects of metering including new and emerging technologies, design and testing, data acquisition and management, and smart applications. The conference will also showcase the best practices in the metering space.**

Previous Participants

*The participating utilities in our previous conference on **"Metering in India"** included:*

*Other participants included **ADCC Infocad, Brooking India Communication Test Design India, Cyient, ERDA, Essential Energy India, Fluentgrid, Genus Power Infrastructures, Holoflex, Ieema (Indian Electrical & Electronics Manufacturers Association), Infosys, KG Technologies Inc., Landis+Gyr (Toshiba), Larsen & Toubro, Mahindra & Mahindra, Motilal Oswal Securities, Nortex Marketing, Reliance Infrastructure, Saft Batteries, Schneider Electric India, Secure Meters, Supermax Components, Syratron Technologies, etc.***

AGENDA/STRUCTURE

KEY TRENDS AND OUTLOOK
- What are the key trends in the power distribution sector?
- What are the key issues and challenges? What is the role of metering in addressing some of these issues?
- What is the outlook for the segment?

GOVERNMENT PERSPECTIVE
- What is the current scenario of metering in India?
- What are the key initiatives being taken by the government to improve metering?
- What are the initiatives planned for supporting the segment?

UTILITY PERSPECTIVE
- What are the new metering technologies being deployed by the utilities?
- What has been the utilities' experience in implementing these technologies?
- What are the challenges faced?
- What are the solutions being adopted to deploy these technologies?

REGULATORY PERSPECTIVE
- What is the state regulators' perspective on the new metering technologies?
- What are the key challenges from a regulatory viewpoint?
- What are the steps being taken by the regulators to enable the adoption of smart meters among utilities?

MANUFACTURERS' PERSPECTIVE
- What are the new technologies being offered by the industry?
- How is the industry gearing up to meet the specific requirements of the utilities?
- What are the key issues and challenges faced by manufacturers?
- What is the outlook for the metering market in the country?

SMART METERING
- What are the key functionalities of the smart meters being deployed by utilities?
- What are the cost trends? What are the benefits envisaged?
- What are the different business models being adopted by the utilities?

METER TESTING
- What are the key considerations and limitations in meter testing?
- What are the new meter testing requirements in view of the evolving meter designs and standards?
- What is the meter testing capacity in India? How has the experience been?

AMR AND AMI
- What are the key technology options? What are the benefits of AMR and AMI solutions?
- How has the experience been so far? What are the key challenges faced?
- What have been the cost trends?

METER DATA MANAGEMENT SYSTEMS
- What are the key benefits of meter data management systems?
- Which technologies are being used by utilities for meter data acquisition?
- What is the role of data analytics in improving the performance of utilities?

INTEROPERABILITY
- What are the key challenges related to the interoperability of meters?
- What are some of the steps being taken to ensure the interoperability of meters?
- What are the other ways to address the interoperability issues?

NET METERING
- What are the key drivers and policy directives?
- What are the net metering needs and requirements?
- What are the technology solutions being deployed for bidirectional meters?

METER COMMUNICATIONS
- What are the communication needs and requirements for metering?
- What are the various technology options? What are the preferred options of the utilities?
- What are some of the key challenges being faced? How can these be addressed?

METER DESIGN
- What are the key design considerations for meter manufacturers?
- How are metering needs changing? What are the factors impacting meter design?
- What are some of the new features added in meter designs?

PREVENTION OF METER TAMPERING
- How does meter tampering impact the performance of utilities?
- What are the technologies available to prevent meter tampering? What have been the benefits of deploying these technologies?

BEST PRACTICES
- What are some of the global best practices in metering?
- Which ones are the most relevant to India?
- What is the utility experience in using metering as a measure to reduce AT&C losses?

Target Audience

- The conference is targeted at

- **Power distribution companies (public and private)**
- **Other utilities**
- **Meter manufacturers**
- **Technology providers**
- **System integrators**
- **Key consultants**
- **Government/regulatory agencies**
- **Other influencers, etc.**

Previous participants

Adani (MPSEZ) Utilities Pvt. Ltd, Amplus Energy Solutions Private Limited, Anchor Electricals Pvt. Ltd, APSPDCL, AVVNL, Bihar Electricity Regulatory Commission, Brookings India, BSES Yamuna Power Limited, Central Power Research Institute, CESC, Chemtrols, CMS Computers Limited, CyanConnode, Cyient, Dakshin Haryana Bijli Vitran Nigam, Delhi Transco Limited, Department of Telecommunications Ministry of Communication and IT, Government of India, DHBVN Essel Utilities Distribution Company Limited, Genus Power Infrastructures Limited, GESCOM (Karnataka), GIZ, Gujarat Electricity Regulatory Commission, Gujarat Energy Training & Research Institute GESCOM (Karnataka), GUVNL, HESCOM, Honeywell, Hubli Electricity Supply Company Limited, ICICI Venture Funds Management Company Limited, Ieema, JERC (H2M), JVVNL, KSEB. Limited, Landis+Gyr Limited, Larsen & Toubro Limited, Lucky Investment Managers Pvt Limited, MPPKVV Co. Ltd, Lara Global, Mangalore Electricity Company, MESCOM, Ministry of Power, MSEDCL Namix Technolabs Pvt. Ltd, Power System Operation Corporation Limited, Punjab State Power Corp. Ltd, Radius Synergies International Pvt. Ltd, Sai Computers Limited, Secure Meters Limited, Southern Power Distribution Company Ltd, State Electricity Regulatory Commission, Tata Power Delhi Distribution Limited, Tata Projects Limited, The Brihanmmbai Electric Supply & Transport Undertaking, Tata Power Company Limited, UGVCL (Gujarat), UHBVN, UJVN Limited UP Power Corporation Limited, Uttar Gujarat Vij Company Limited, Uttar Pradesh Electricity Regulatory Commission, Voyants Solutions Pvt. Ltd, Wave Infratech, WBSEDCL, Xylem, etc.

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Registration Form

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Registration Fee

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Delegates	INR	GST @ 18%	Total INR	Total USD
One delegate	22,500	4,050	26,550	418
Two delegates	37,500	6,750	44,250	732
Three delegates	52,500	9,450	61,950	1,045
Four delegates	67,500	12,150	79,650	1,359

- **There is a special low fee of Rs 7,000 per participant for power distribution companies (public), state-owned transcos, regulatory authorities, research organisations and academic institutions.**
- **Registration will be confirmed on receipt of the payment.**
- **To register online, please log on to http://indiainfrastructure.com/conf.html**

Payment Policy:

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Organisers

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