



6th Annual Conference on

METERING IN INDIA

Needs and Requirements; New Technologies and Best Practices

June 11-12, 2019, Le Meridien, New Delhi

20 per cent "Early Bird" discount ends on May 21, 2019

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Organisers:

POWERLINE

Smart Utilities

METERING IN INDIA

Mission

- The role of metering in India has evolved significantly over the years. From energy accounting and revenue administration, it has extended to AT&C loss reduction, renewable energy integration, demand forecasting, load management and energy conservation.
- Besides achieving 100 per cent metering, the major focus areas are smart and prepaid meters. One of the key proposed amendments to the Electricity Act 2003 is the introduction of the terms of smart and prepaid meters, according to which no licensee should supply electricity without the installation of such meters. To this end, the Ministry of Power has issued an advisory to states to shift to smart prepaid meters for all consumers over a period of three years, starting April 2019.
- Besides end consumers, smart and prepaid meters are planned to be installed at other stages of the power system - from the point of generation to distribution feeders and transformers - for proper accounting and measurement of energy consumption. This is expected to overcome the problem of outstanding dues of consumers to discoms, and of discoms to power generators.
- A number of government programmes have metering as their key component. These include the Ujwal Discom Assurance Yojana (UDAY), the Integrated Power Development Scheme and the Deendayal Upadhyaya Gram Jyoti Yojana. Under UDAY, smart meters have been made mandatory for all consumers beyond 200 units of consumption per month while about 5 million smart meters are being deployed under the IPDS. Further, under the National Smart Grid Mission, a smart meter roll-out report has been prepared and model request for proposal and detailed project report documents have been released for smart metering projects in India.
- Meanwhile, Energy Efficiency Services Limited (EESL) is implementing the Smart Meter National Programme (SMNP), which envisages the replacement of 250 million conventional meters with smart meters across the country. Instead of a capex model, an opex model is being adopted for financing smart metering projects given the financial constraints that discoms face in smart meter roll-outs. Contracts for only 10 million smart meters have been awarded so far. This implies a significant market opportunity for smart meter manufacturers.
- With smart metering comes the need for a communication network (radio frequency mesh, power line communication carrier, fibre optics, etc.) as well as other hardware and software related to control centres and meter data management systems (MDMS). MDMS helps in data acquisition and storage from smart meters and enables data analysis, thereby providing data for various applications such as network planning and load management.
- Other opportunities in the segment include net metering in view of the large rooftop capacity additions taking place, metering of unmetered consumers (especially in the agricultural consumer category) and replacement of defective meters.
- A number of challenges, however, continue to face the segment including interoperability, rapidly evolving technologies, quality of meters and meter tampering. Various technologies such as blockchain, high security seals and sensors are being tested and implemented to address some of these issues.
- Going forward, investments in the metering segment are likely to be driven by the implementation of smart and prepaid meters along with metering of unmetered consumers. Besides bulk procurement by EESL, state utilities are likely to come up with tenders for smart metering projects.
- **The mission of this conference is to provide a platform for key stakeholders to discuss the metering requirements and opportunities in India. The conference will also highlight the key challenges faced and enable knowledge sharing on various aspects of metering including communication systems, emerging technologies, design and testing, and data acquisition and management. The conference will also showcase the best practices in the metering space.**

Target Audience

- The conference is targeted at
 - ❖ Power distribution companies (public and private)
 - ❖ Other utilities
 - ❖ Meter manufacturers
 - ❖ Research and development organisations
 - ❖ Technology providers
 - ❖ System integrators
 - ❖ Consultants
 - ❖ Financial institutions
 - ❖ Government agencies
 - ❖ Regulatory agencies
 - ❖ Telecommunication providers
 - ❖ Solution providers, etc.

Previous Participants

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



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 outlook for the distribution segment?

GOVERNMENT PERSPECTIVE

- ❖ What is the current metering scenario in India?
- ❖ What are the key initiatives being taken by the government in the metering space? What have been the achievements and challenges?
- ❖ What are the initiatives planned for the segment?

UTILITY PERSPECTIVE

- ❖ What are the new metering technologies deployed by the utilities?
- ❖ What has been the experience of utilities in the implementation of these technologies?
- ❖ What are the future plans?

REGULATOR PERSPECTIVE

- ❖ What is the state regulators' perspective on new metering technologies?
- ❖ What are the key issues and challenges?
- ❖ What steps are being taken by the regulators to support the transition to smart metering?

METER MANUFACTURERS' PERSPECTIVE

- ❖ What is the current size of the metering market in India?
- ❖ What are the new technologies being offered by the industry?
- ❖ What are the key issues and challenges faced by manufacturers in meeting the specific requirements of utilities?

EESL'S PERSPECTIVE

- ❖ What are the targets under the SMNP programme?
- ❖ How has been the experience and the progress so far?
- ❖ What are the key issues and challenges?

AMR AND AMI

- ❖ What are the key components of AMR and AMI solutions?
- ❖ What are the costs and benefits of these solutions?
- ❖ How has the experience been so far? What is the future outlook?

SMART METERING

- ❖ What are the key functionalities of the smart meters being deployed by utilities?
- ❖ What are the key issues and challenges?
- ❖ What are 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?
- ❖ How has data analytics helped utilities in improving their performance? What are the challenges?

METER COMMUNICATIONS

- ❖ What are the meter communication needs and requirements?
- ❖ What are the various technologies? What are the key considerations for their selection?
- ❖ What are some of the key challenges?

INTEROPERABILITY

- ❖ What are the key challenges related to the interoperability of meters?
- ❖ What has been the impact of meter standards?
- ❖ What are the other ways to address interoperability issues?

BLOCKCHAIN IN METERING

- ❖ What is blockchain technology and what is its role in metering?
- ❖ How has been the global experience?
- ❖ What is the potential in the Indian metering market?

PREPAID METERING

- ❖ What has been the experience in prepaid metering? What are the key challenges?
- ❖ What are the technology and cost trends?
- ❖ What is the future outlook?

NET METERING

- ❖ What are the net metering needs and requirements of utilities?
- ❖ What are the technology solutions being deployed for bidirectional meters?
- ❖ What are the challenges?

TOD METERING

- ❖ How has been the Indian experience with ToD metering?
- ❖ What are the regulatory provisions to support ToD metering?
- ❖ What are the challenges? What is the outlook?

METER TESTING

- ❖ What are the key considerations and limitations in meter testing?
- ❖ What are the new meter testing requirements?
- ❖ What is the meter testing capacity in India? What has been the experience so far?

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?

METER TAMPERING AND POWER THEFT

- ❖ What are the initiatives being taken to prevent meter tampering and power theft?
- ❖ What are the technologies to prevent meter tampering? What are their key benefits?
- ❖ What has been the experience of utilities in India?

BEST PRACTICES

- ❖ What are some of the best practices and noteworthy initiatives in metering?
- ❖ What have been the biggest challenges faced? What are the lessons learnt?
- ❖ What has been the experience of utilities in terms of performance improvement?

Previous Participants

Adani (MPSEZ) Utilities, Amplus Energy Solutions, Anchor Electricals, APSPDCL, AVNL, Bihar Electricity Regulatory Commission, Brookings India, BSES Yamuna Power, Central Power Research Institute, CESC, Ceinsys, Chemtrols, CMS Computers Limited, CyanConnote, Cyient, Dakshin Haryana Bijli Vitran Nigam, Delhi Transco, Department of Telecommunications, Ministry of Communications and IT, Government of India, Essel Utilities, ERDA, Fluentgrid, Genus Power Infrastructures, GESCO, GIZ, Gujarat Electricity Regulatory Commission, Gujarat Energy Training & Research Institute, GUVNL, HESCOM, Honeywell, ICICI Venture Funds Management Company, Ieema, Infosys, JERC (H2M), JVVNL, KSEB, Landis+Gyr, Larsen & Toubro, Lucky Investment Managers, Mahindra & Mahindra, MPPKWV, Lara Global, MESCOM, Ministry of Power, Motilal Oswal Securities, MSEDCL, Narnix Technolabs, Nortex Marketing, POSOCO, PSPCL, Radius Synergies International, Reliance Infrastructure, Sai Computers, Saft Batteries, Schneider Electric India, Secure Meters, State Electricity Regulatory Commission, Supermax Components, Syratron Technologies, Tata Power DDL, Tata Projects, The BEST Undertaking, Tata Power Company, UGVCL, UHBVN, UJVN, UP Power Corporation, Uttar Pradesh Electricity Regulatory Commission, Voyants Solutions, Wave Infratech, WBSSEDCL, Xylem, etc.

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Registration Fee

Delegates	20 per cent discount (before May 21, 2019)		Fee without discount			
	Total INR (incl. tax)	Total USD	INR	GST @ 18%	Total INR	Total USD
One delegate	21,240	354	22,500	4,050	26,550	443
Two delegates	35,400	590	37,500	6,750	44,250	738
Three delegates	49,560	826	52,500	9,450	61,950	1,033
Four delegates	63,720	1,062	67,500	12,150	79,650	1,328

- There is a 20 per cent "Early Bird" discount for those registering before May 21, 2019.
- There is a special low fee of Rs 6,000 per participant for state owned distribution companies, state-owned transcos, regulatory authorities, research organizations and academic institutions. 18% GST is applicable on the fee.
- Registration will be confirmed on receipt of the payment.
- To register online, please log on to <http://indiainfrastructure.com/conf.html>

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- Full payment must be received prior to the conference.
- Conference fee includes lunch, tea/coffee and conference material.
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Organisers

The conference is being organised by India Infrastructure Publishing, the leading provider of information on the infrastructure sectors through magazines, newsletters, reports and conferences. The company publishes *Indian Infrastructure*, *Power Line* and *Smart Utilities* magazines. It also publishes *Power News* (a weekly newsletter), and a series of reports on the power sector, including *Power Distribution in India*, *Distribution Franchise in India*, and *Rooftop Solar in India*. It also publishes the *Power Line Directory and Yearbook*.

Contact: Harshita Wadehra, Conference Cell

India Infrastructure Publishing Pvt. Ltd. B-17, Qutab Institutional Area, New Delhi 110016

Tel: +91-11-43520059, 41034615, 91-9871976468 | Fax: +91-11-26531196, 46038149

E-mail: conferencecell@indiainfrastructure.com