



7th Annual Conference on

# METERING IN INDIA

New & Emerging Requirements, Market Opportunities & Future Outlook

May 18-19, 2020 | Le Meridien, New Delhi

Organisers:

**POWERLINE**

**Smart Utilities**

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# METERING IN INDIA

## Mission

- The union government's budget announcement to replace all the conventional electricity meters with smart prepaid meters over the next three years is expected to create a demand for around 300 million smart meters in the coming years.
- Although similar targets have been set earlier as well, this reinforcement is likely to speed up the pace of deployment. With discom AT&C losses at over 18 per cent as of 2018-19, smart prepaid meters are expected to significantly improve the viability of the segment with improved billing and collection efficiency, increase in discoms' cash flow and revenue and the implementation of time-of-day (ToD) tariffs, among other things.
- Government schemes have been the key drivers of smart meter deployment in the past couple of years. However, progress remains lower than expected. Under the Ujwal Discom Assurance Yojana (UDAY), only 6 per cent of the target has been achieved so far. Smart meters have also been installed under the National Smart Grid Mission pilot projects (157,000) and the Integrated Power Development Scheme (98,000).
- Meanwhile, under the Smart Meter National Programme (SMNP) being implemented by Energy Efficiency Services Limited (EESL), 250 million smart meters are envisaged to be installed across states. EESL is implementing its proven model of bulk procurement, demand aggregation and monetisation of savings. So far, it has issued three tenders for the procurement of 5 million smart meters each, and installed around 1 million meters.
- Robust and efficient meter communication technologies are a vital component of smart metering infrastructure. They are essential for the remote monitoring of the infrastructure and the bidirectional communication system. Power line communication, GPRS and radio frequency mesh are some of the widely deployed communication technologies being considered by utilities in India.
- Similarly, given that smart meters generate a huge amount of data, meter data management systems, which help in data acquisition and storage, will be of critical importance to utilities. They will be useful for undertaking demand response, detecting meter tampering, managing outages, and protecting against thefts.
- Another emerging area of opportunity is the net metering segment. With the rapid expansion of solar rooftop systems, allowing bidirectional power supply has become essential. This requires a net meter for energy accounting purposes. With this, peer-to-peer trading through technologies such as blockchain is expected to gain traction.
- While there are ambitious smart meter roll-out plans for the next few years, utilities need to address some challenges as they scale up deployment. These include interoperability issues, meter tampering and theft, cybersecurity threats, and technology obsolescence.
- **The mission of this conference is to provide a platform for key stakeholders to discuss the metering needs and requirements as well as opportunities in India. The conference will enable knowledge sharing in the areas of emerging technology solutions for communication systems, meter design and testing, blockchain, and data acquisition and management. It will highlight the key issues and challenges facing the segment, and the best solutions. The conference will also showcase the best practices of key utilities.**

## Target Audience

- ❖ 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:**



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Accenture | Adani (MPSEZ) Utilities | Amplus Energy Solutions | Analogics Tech India | Anchor Electricals | APSPDCL | ARM | AVNL | A V Utility | BERC | Brookings India | BSES Yamuna Power | CDOT | Central Power Research Institute | CESC | Ceinsys | Chemtrols | CMS Computers Limited | Cyan Connode | Cyient | DHBVN | Delhi Transco | Department of Telecommunications | Efftronics Systems | Enzen Global | Essel Utilities | ERDA | Fluentgrid | Frontier Electrocomponents and Systems | Genus Power Infrastructures | GESCO | GIZ | GERC | GETRI | GUVNL | HESCOM | Honeywell | ICICI Venture Funds Management Company | Jeema | Infosys | JERC (H2M) | JVVNL | KSEB | Landis+Gyr | Itron | Kelin Overseas | Larsen & Toubro | Lucky Investment Managers | Mahindra & Mahindra | MPPKVV | Lara Global | LDRA Technologies | MESCOM | Ministry of Communications and IT | Ministry of Power | Motilal Oswal Securities | MSEDCL | MTE | Narnix Technolabs | NEDO | Nortex Marketing | NTPC | Panasonic Life Solutions India | POSOCO | Powertech Consultants | PSPCL | Qualcomm | Radius Synergies International | Reliance Infrastructure | RDSO | Sai Computers | Saft Batteries | Schneider Electric India | Secure Meters | SERC | Supermax Components | Syratron Technologies | Tata Power DDL | Tata Projects | Tata Power Company | Texas Instruments | The BEST Undertaking | Torrent Power | UGVCL | UHBNV | UJVN | UP Power Corporation | UPERC | Voyants Solutions | Wave Infratech | WBSIEDCL | Xylem | etc.

## AGENDA/STRUCTURE

### KEY TRENDS AND OUTLOOK

- ❖ What are the key trends in the power distribution segment?
- ❖ What have been the recent trends and developments with respect to metering?
- ❖ What are the key issues and challenges? What is the outlook?

### GOVERNMENT PERSPECTIVE: ACHIEVEMENTS, RECENT INITIATIVES AND FUTURE PLANS

- ❖ What has been the metering progress under various government schemes?
- ❖ What are the targets for the roll-out of smart meters? What steps are being taken to achieve these?
- ❖ What are the key issues and challenges facing the segment?

### FOCUS ON IPDS: ACHIEVEMENTS AND TARGETS

- ❖ What has been the progress on the metering front under IPDS?
- ❖ What is the target for smart metering? What has been the progress so far?
- ❖ What has been the implementation experience? What are the lessons learnt?
- ❖ What are the next steps? What are the key areas of concern?

### UTILITY VIEWPOINT: EXPERIENCE SO FAR AND FUTURE PLANS

- ❖ What has been the utility experience in metering?
- ❖ What are the key metering technologies being adopted?
- ❖ What are the new and emerging metering requirements? What are the future plans?
- ❖ What are the key metering-related challenges?

### REGULATORY PERSPECTIVE: CURRENT SCENARIO AND NEW STEPS

- ❖ What is the regulators' perspective on metering?
- ❖ What are the regulatory provisions for promoting smart and prepaid metering?
- ❖ What steps are being taken to support the transition to smart metering? What are the key issues and challenges?

### METER MANUFACTURERS' OUTLOOK: NEW TECHNOLOGIES, INDUSTRY PREPAREDNESS AND CHALLENGES

- ❖ What is the perspective of meter manufacturers on smart metering?
- ❖ What are the new and emerging metering technologies most suited for Indian utilities?
- ❖ What is the industry preparedness for the roll-out of 300 million smart meters?
- ❖ What are the key challenges facing meter manufacturers?

### SPOTLIGHT ON EESL'S INITIATIVES AND UPDATE ON SMNP

- ❖ What has been EESL's experience in smart metering so far?
- ❖ What has been the progress under the Smart Metering National Programme?
- ❖ What are EESL's future smart metering targets?
- ❖ What are the key issues and challenges?

### AMR AND AMI: EXPERIENCE SO FAR AND FUTURE OUTLOOK

- ❖ What are the benefits derived by utilities from AMR and AMI?
- ❖ What has been the utility uptake so far? What are the key issues and challenges?
- ❖ What is the future outlook for AMR and AMI deployment?

### NEXT-GEN TECHNOLOGIES - IoT AND BLOCKCHAIN

#### POTENTIAL FOR BLOCKCHAIN IN METERING

- ❖ What role can blockchain technology play in the metering market in India?
- ❖ How has been the global experience?
- ❖ What are the must-haves for implementing blockchain? What are the key issues?

#### IoT SOLUTIONS

- ❖ What are the key IoT solutions suitable for Indian utilities?
- ❖ How has been the utility experience in the adoption of IoT solutions?
- ❖ What is the future outlook for IoT-enabled platforms? What are the challenges?

### EMERGING REQUIREMENTS: PREPAID METERING, NET METERING AND ToD METERING

#### POTENTIAL FOR PREPAID METERING

- ❖ How has been the utility experience in the adoption of prepaid meters?
- ❖ What are the benefits derived by utilities from prepaid metering?
- ❖ What are the challenges faced by utilities in the adoption of prepaid meters? What is the outlook for the segment?

#### EMERGING NET METERING REQUIREMENTS

- ❖ What is the existing policy framework for net metering?
- ❖ What are the net metering models being adopted by utilities?
- ❖ How has been the utility experience in the adoption of net meters? What is the outlook for the segment?

#### PROSPECTS FOR ToD METERING

- ❖ What is the existing policy and regulatory framework for ToD metering?
- ❖ How has been the utility experience in the adoption of ToD meters?
- ❖ What is the future outlook for ToD metering? What are the challenges?

#### SMART METERING TECHNOLOGIES AND SOLUTIONS

- ❖ What are the desired functionalities of smart meters?
- ❖ What are the new and promising technology solutions?
- ❖ What are the issues and challenges?
- ❖ What is the outlook for smart metering?

#### METER DATA MANAGEMENT SYSTEMS

- ❖ What are the technology solutions adopted by utilities for MDMS?
- ❖ What are the key benefits derived from MDMS?
- ❖ How has been the utility experience in the adoption of MDMS? What are the key issues and challenges?

#### METER DATA ANALYTICS

- ❖ What are the key use cases of smart meter data analytics for utilities?
- ❖ What has been the trend in the uptake of meter data analytics by utilities so far?
- ❖ What are the issues and concerns? What is the outlook?

#### CYBERSECURITY AND DATA PRIVACY

- ❖ What are the issues and concerns associated with meter data security and protection?
- ❖ What are the new and emerging solutions for managing cybersecurity risks?
- ❖ What has been the utility experience so far? What are the lessons learnt?

#### FOCUS ON METER COMMUNICATION TECHNOLOGY

- ❖ What are the meter communication technologies most relevant to Indian utilities?
- ❖ What are the key considerations in the selection of meter communication technology?
- ❖ What are the issues and challenges faced by utilities in meter communications?

#### INTEROPERABILITY: CHALLENGES AND SOLUTIONS

- ❖ What are the key interoperability issues and challenges encountered by utilities?
- ❖ How are the interoperability issues being addressed?
- ❖ What has been the impact of meter standards?

#### METER TESTING

- ❖ What is the meter testing capacity in India? What has been the experience so far?
- ❖ What are the existing meter testing standards and the new meter testing requirements?
- ❖ What are the challenges faced in meter testing?

#### METER DESIGN

- ❖ What are some of the new and emerging meter designs?
- ❖ How are metering needs changing? What are the factors impacting meter design?
- ❖ What are the key design considerations for meter manufacturers?

#### THEFT REDUCTION AND REVENUE PROTECTION

- ❖ What are the latest technologies to tackle meter tampering and theft?
- ❖ What are some of the practices for preventing meter tampering and power theft?
- ❖ What has been the experience of utilities in India?

#### SHOWCASE OF METERING BEST PRACTICES

- ❖ What are some of the best practices and noteworthy initiatives in metering?
- ❖ What have been the outcomes?
- ❖ What have been the biggest challenges? What are the lessons learnt?

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Two delegates	32,000	5,760	37,760	629	40,000	7,200	47,200	787
Three delegates	44,000	7,920	51,920	865	55,000	9,900	64,900	1,082
Four delegates	56,000	10,080	66,080	1,101	70,000	12,600	82,600	1,377

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