

Lead Organizer



DISTRIBUTION UTILITY MEET

29th and 30th Nov 2017,
The Sheraton Grand, Bengaluru



A large, circular photograph showing the back of a seated audience in a conference hall. In the background, several people are seated on a stage, appearing to be speakers or panelists. The audience is composed of diverse individuals in professional attire. The overall atmosphere is that of a formal event or workshop.

BEST PRACTICES WORKSHOP



A graphic design featuring several overlapping circles in various colors (orange, yellow, green, blue, grey) that partially obscure the background image of the audience.

SMART UTILITIES FORUM

Knowledge Partners:



ELECTRIC POWER
RESEARCH INSTITUTE





BACKGROUND

The 21st Century electric grid is witnessing several disruptive changes. After 100 years of centralized power generation and creation of massive electric grids, the shift is now towards de-centralized generation. For the past five years we are witnessing that increasing share of new generation resources are being added at the low voltage or distribution segment of the grid which is a major transformational change to the electric grid. The traditional model of electricity being generated at large power plants and transported to millions of consumers through long transmission and distribution lines is changing. The traditional boundaries between Generation, Transmission and Distribution are fast disappearing and the grid is evolving as an integrated grid. This change is primarily driven by distributed generation from renewables which have already achieved price parity with grid power for most customer classes in many geographies. Electric Vehicles are going to make the electric grid even more complex to manage as there will be less predictability on their locations of connection with the grid!

Smart Grid technologies have emerged as the key enablers for both integration of distributed and variable renewable energy as well as electric vehicles. The widespread deployment of smart grids is crucial to achieving a more secure and sustainable energy future as well as addressing current concerns with existing electricity systems, such as ageing infrastructure and increasing peak demands. Smart Grids have also emerged as the critical enabling infrastructure for all flagship programs for Government of India (GoI) such as 24x7 Power for All, 100 Smart Cities, 175 GW of Renewable Energy by 2022, National Mission on Electric Mobility with a target of 6-7 million Electric Vehicles by 2022 etc.

OBJECTIVES

As India embarks on its smart grid journey, it is imperative that we do not make the same mistakes but learn from each other's experiences. Given the nebulous nature of Smart Grids, which have been described as a journey more than a destination, as well as the fact there is no single architecture, standard, etc., there is immense value to utilities in sharing best practices, lessons learned, challenges faced, etc., in addition to collectively stating needs which will be relevant for solution providers as well as policymakers.

Towards this goal, it is proposed to bring all Distribution Utilities in India under one umbrella – "Smart Utilities Forum" and organize a 2-day workshop to share Best Practices on various initiatives undertaken by different Discoms.

Bangalore Electricity Supply Company Ltd. (BESCOM) along with knowledge partners India Smart Grid Forum (ISGF), Institute of Electrical and Electronics Engineers (IEEE) and the Electric Power Research Institute (EPRI) is organizing "**Distribution Utility Meet DUM—2017**", a platform to bring all DISCOMs across India under one umbrella to discuss the problems faced, exchange their views and ideas, the best practices followed and adoptability to meet the future demands.

Leading utilities from USA, Canada, Europe and Japan etc will also be invited to make presentations and share their experiences in implementing smart grid technologies. This workshop will provide a platform for utilities to exchange ideas and learn from each other.

Key objectives of the Smart Utility Forum and the workshop would be:

- 01  Capture best practices followed by leading Distribution Utilities in India & overseas
- 02  Know present state of Smart Grid technologies and problems faced by Utilities
- 03  Discuss on future technologies and challenges across Utilities
- 04  Achieve mutual benefits in Technology, Finance and Regulations
- 05  Organize seminars and practical demonstrations on parallel basis

The proposed Forum can provide a unified voice to influence and enable the Discom community to leverage each other's experiences for successful nationwide smart grid roll outs. The Forum will be a strategic partnership of the Indian utilities community to help each other achieve business goals, by gaining the insights and influence to improve smart grid technologies, and close the gap between strategy and execution.

WORKSHOP STRUCTURE

The workshop will include **Plenaries, Presentations, Breakout Sessions and Site Visits**. Invited international utilities and Knowledge Partners will present on select topics. Case studies and project experiences will be discussed in separate breakout sessions. Key challenges to Discoms will be compiled and circulated as workshop themes. Presentations and discussions will be around those themes.

Some of the key challenges shall be:

- 01 | Single Billing System of Utilities**
- 02 | Business Process for updating GIS maps**
- 03 | Integration of AMI and other new Applications with R-APDRP systems**
- 04 | Integration of GIS with OMS**
- 05 | Rooftop PV integration with the Distribution Grid**
- 06 | AMI Rollout Strategies and Business Models**
- 07 | Peak Load Management**
- 08 | Electric Vehicle Charging Stations-Standards & Business Models, Vehicle-Grid Integration**
- 09 | Unified Communication System for Discom Applications**
- 10 | Transformation from Discoms to Distribution Network Operators**
- 11 | Open Access and Retail Competition**
- 12 | Energy Storage and behind the Meter Resources – DERMS**
- 13 | AT&C Loss Reduction**
- 14 | Smart Asset Management Systems (ISO 55000)**
- 15 | Cyber Security and Business Continuity**
- 16 | Advanced Analytics**
- 17 | Customer Engagement Strategies**
- 18 | Emerging Technologies**
- 19 | Skill Development**
- 20 | Smart Regulations**

INDUSTRY PARTICIPANTS

Inviting Industry Participation as Exhibitors.

A limited number of exhibition booths of size 3 x 2 mtrs are available in the pre-function area on a paid basis to Indian and international companies and organizations. The exhibition booths will be sold on a first come, first served basis.

TO KNOW MORE, PLEASE CONTACT



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The senior officials dealing with technology implementation, network operation and customer care from Discoms, Regulators and Senior Government Officials will be invited to attend the workshops.

Presentations shall be made by:

1. Indian Utilities
2. International Utilities
3. Academic Institutions and Knowledge Partners - ISGF, IEEE, EPRI
4. Representatives of Industry working with Utilities on Specific Projects

**NO. OF PARTICIPANTS
200 +**

- All participants will pay for their travel and accommodation.
- Academia will be selected on the basis of their submission on key challenges. KPTCL will be invited to join the workshop.
- There will be welcome dinner on Day 1.

WORKSHOP AGENDA

Day 1 - 29 th Nov 2017		
10.00 to 11.30	Inauguration Welcome Address: MD-BESCOM	
11.30 to 12.00	Hi-Tea	
12.00 to 13.30	Power Quality Lead Presentation: Electric Power Research Institute, USA/Edison Electric Institute, USA Moderator: Copper Association Panel: Key Topics: <ul style="list-style-type: none"> 1. 24x7 power supply at constant voltage and frequency – real challenge for Discoms 2. Non-leaner loads and Harmonics 3. Volt/VAR Control 	Billing and Energy Accounting Lead Presentation: Reliance Energy, Mumbai Moderator: Panel: Key Topics: <ul style="list-style-type: none"> 1. ONE Billing System for ONE Utility 2. Energy Accounting and Loss Reduction 3. Smart Asset Management Systems (ISO 55000)
13.30 to 14.30	Lunch	
14.30 to 16.00	Peak Load Management Lead Presentation: American Power, USA/ENEL, Italy Moderator: ISGF Panel: Key Topics: <ul style="list-style-type: none"> 1. Peak load management and Demand Response 2. DERMS 3. Regulations and Incentives for DR 	Open Access Lead Presentation: Moderator: CEA Panel: Key Topics: <ul style="list-style-type: none"> 1. Open Access and Retail Competition 2. Dynamic Tariffs and Market Design 3. Transformation of Discoms to DSOs
16.00 to 16.30	Hi-Tea	
16.30 to 18.00	GIS Lead Presentation: TPDDL Moderator: IEEE Panel: Topics: <ul style="list-style-type: none"> 1. Business Process for regular updation of GIS Maps 2. Integration of GIS with OMS, SCADA/DMS and DAS 	Renewable Integration Lead Presentation: ENEDIS, France/NREL, USA Moderator: POSOCO Panel:



<p>18.00 to 19.00</p>	<p>CEOs' Conclave Chair: Joint Secretary-Distribution, Ministry of Power Key Topics:</p> <ul style="list-style-type: none"> 1. Integration of AMI and other new Applications with R-APDRP System 2. Cyber Security and Business Continuity 3. Regulatory Support for Transformation 4. Training and Capacity Building
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Day 2 - 30 th Nov 2017		
<p>10.00 to 11.30</p>	<p>Smart Metering and Advanced Analytics Lead Presentation: ENEL Panel: Key Topics:</p> <ul style="list-style-type: none"> 1. AMI Rollout Strategies and Business Models 2. Communication Technology Choices for AMI 3. Advanced Analytics and Cyber Security 4. Customer Engagement and Data Protection 	
<p>11.30 to 12.00</p>	<p>Hi-Tea</p>	
<p>12.00 to 13.30</p>	<p>Smart Grids Lead Presentation: Edison Electric Institute Moderator: ISGF</p>	
<p>13.30 to 14.30</p>	<p>Lunch</p>	
<p>14.30 to 16.00</p>	<p>Future Technologies Lead Presentations: (1) EPRI; (2) ENEDIS Panel: Key Topics:</p> <ul style="list-style-type: none"> 1. Vehicle Grid Integration 2. Energy Storage 	<p>Standards and Interoperability; Skill Development Moderator: IEEE Panel: Key Topics:</p> <ul style="list-style-type: none"> 1. Standards for emerging technologies 2. Integration of new Systems with R-APDRP System 3. Skill Development for Transformation of Utilities
<p>16.00 to 16.30</p>	<p>Hi-Tea</p>	
<p>16.30 to 17.30</p>	<p>Validitory Session Chair: BESCOM/Energy Dept, Karnataka Panel: Moderators of all Panels</p>	



DATES & LOCATION



29th & 30th Nov 2017



The Sheraton Grand, Bengaluru

CONTACT US

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