ಬೆವಿಕಂ
BESCOM

# DISTRIBUTION UTILITY MEET

1st Power Utility Conference for Collaborative Growth

# BEST PRACTICES WORKSHOP

# SMART UTILITIES FORUM

## Technology Innovation Centre, BESCOM

29th and 30th Nov 2017

The Sheraton Grand, Bengaluru

www.dumindia.in

Knowledge Partners: ISGF India Smart Grid Forum | IEEE | Lawrence Berkeley National Laboratory | EPRI 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 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 grid modernization 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 or standards, 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), The Electric Power Research Institute (EPRI)* and Lawrence Berkeley National Laboratory (LBNL)* 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, S.Korea and Japan are 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

01 Capture best practices followed by leading Distribution Utilities in India and overseas

02 Discuss on future technologies and challenges across Utilities

03 Achieve mutual benefits in Technology, Finance and Regulations

04 Organize seminars and practical demonstrations on new technologies

05 Discuss and evaluate new business models

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 TOPICS

01 | Single Billing System for 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

*Invited

# INDUSTRY PARTICIPATION

## Inviting Industry Participation as Exhibitors

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

+91 9449844629

dum2017bescom@gmail.com

# GOVERNMENTS AND UTILITIES PARTICIPATION

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
4. Representatives of Industry working with Utilities on Specific Projects

**NO. OF PARTICIPANTS**

**300 +**

- All expenses for the conference and site visits will be borne by BESCOM
- All participants will pay for their travel and accommodation
- Academia will be selected on the basis of their submission on key topics

# WORKSHOP AGENDA

| Day 1 - 29th Nov 2017 | | |
|---|---|---|
| 10.00 to 11.30 | **Inauguration**<br>Welcome Address: MD-BESCOM | |
| 11.30 to 12.00 | Hi-Tea | |
| 12.00 to 13.30 | **Power Quality** | **Billing and Energy Accounting** |
| 13.30 to 14.30 | Lunch | |
| 14.30 to 16.00 | **Peak Load Management** | **Open Access and Retail competition** |
| 16.00 to 16.30 | Hi-Tea | |
| 16.30 to 17.30 | **GIS** | **Renewable Integration** |
| 17.30 to 19.30 | **CEOs' Conclave** | |
| 19.30 onwards | **Gala Dinner** | |

| Day 2 - 30th Nov 2017 | |
|---|---|
| 10.00 to 11.30 | **Smart Metering and Advanced Analytics** |
| 11.30 to 12.00 | Hi-Tea |
| 12.00 to 13.30 | **Smart Grids** |
| 13.30 to 14.30 | Lunch |
| 14.30 to 16.00 | **Emerging Technologies** |
| 16.00 to 16.30 | Hi-Tea |
| 16.30 to 17.30 | **Valedictory Session** |

| Day 3 – 01st Dec 2017, (Optional) | |
|---|---|
| | **Site Visits:**<br>1. Smart Grid Pilot Project at CESC, Mysore<br>2. Distribution Automation System at BESCOM |

# DATES & VENUE

29th & 30th Nov 2017

The Sheraton Grand, Bengaluru

## CONTACT US


**Mr. Anil Kumar D'Souza**
Deputy General Manager
Technology Innovation Centre, BESCOM

+91 9449844629

dum2017bescom@gmail.com

www.dumindia.in


**FOR ACCOMODATION AND TRAVEL, PLEASE CONTACT**


**Zuheb Hasan M Z**

zuheb.h@traveltours.in

+917899837798,
+918043232323


**Technology Innovation Centre,
BESCOM**