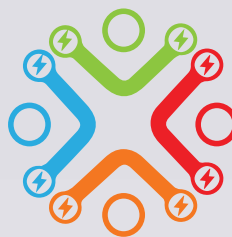


Host  
**TATA**  
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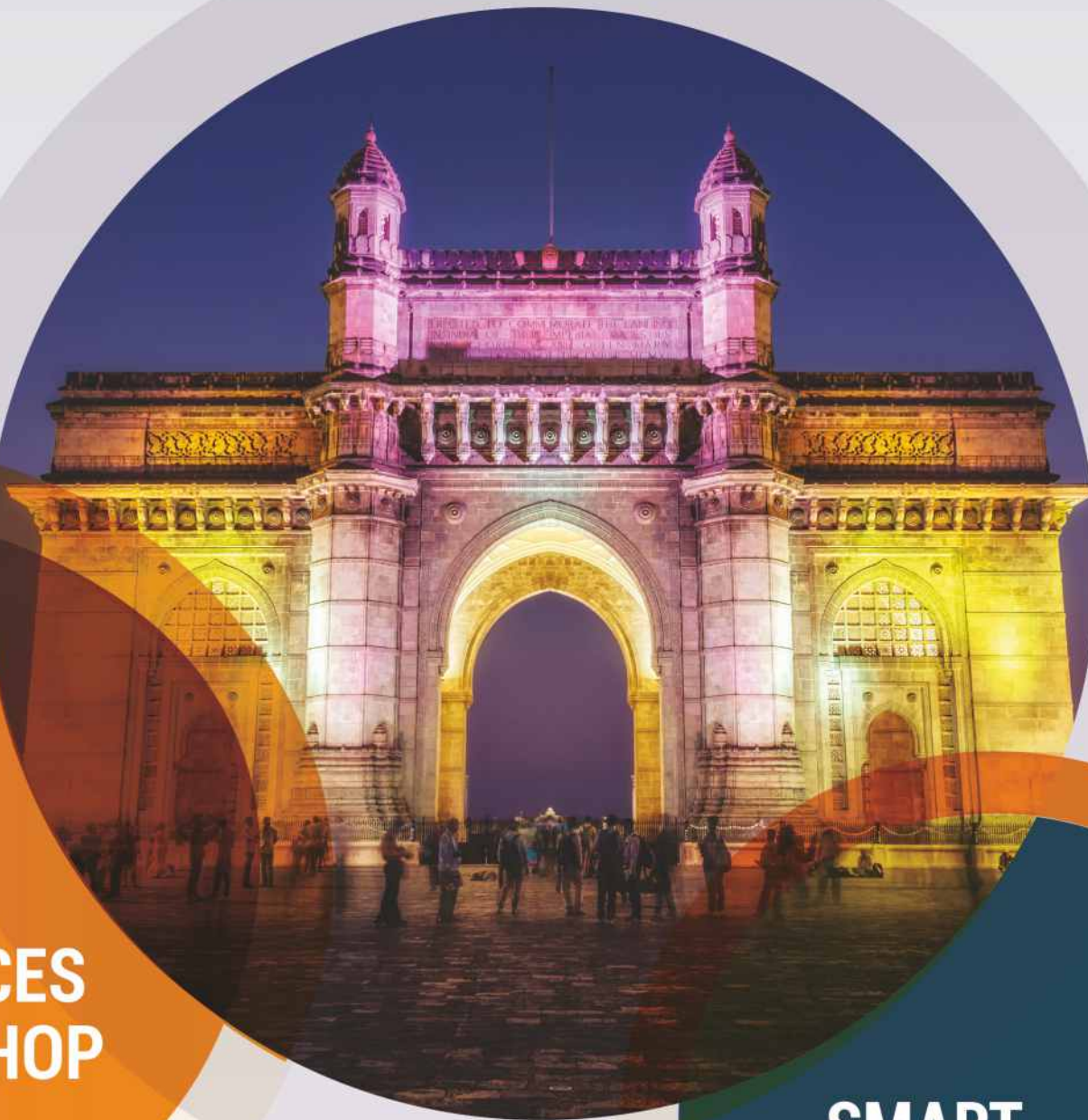
Organizing Partner  
**ISGF**  
India Smart Grid Forum

Co-Organizer  
**RESCOM**



**DISTRIBUTION  
UTILITY MEET 2018**  
2<sup>nd</sup> Annual Conference of  
Power Distribution Utilities  
for Collaborative Growth

**BEST  
PRACTICES  
WORKSHOP**



**SMART  
UTILITIES  
FORUM**

**DUM** 2018



01 - 02 Nov 2018



Taj Lands End, Mumbai, India



[www.dumindia.in](http://www.dumindia.in)

Knowledge Partners:










# BACKGROUND

The 21<sup>st</sup> 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, Smart metering for all electricity customers on fast track etc.

## OBJECTIVES

-  Capture Best Practices followed by leading Distribution Utilities in India and Overseas 01
- 02 Discuss on future Technologies and challenges for Utilities 
-  Leverage benefits in Technology, Finance and Regulations 03
- 04 Brainstorming and practical demonstrations on new Technologies 
-  Discuss and evaluate new Business Models 05



## — First Edition of Distribution Utility Meet 2017 —

The first Distribution Utility Meet (DUM) was hosted by Bangalore Electricity Supply Company (BESCOM) with ISGF as a Organising Partner. DUM was organized as a 2-days Smart Utilities Forum scheduled on 29 & 30<sup>th</sup> November 2017 in Bangalore. It provided a unified voice to influence and enable the DISCOM community to leverage each other's experiences for successful nationwide smart grid roll outs. The DUM was a strategic forum of Indian utilities community to help each other achieve business goals, by gaining the insights and influence to improve smart grid technologies and bridge the gap between strategy and execution.

DUM 2017 was a huge success and received accolades from all participants. Leading utilities from USA, Canada and Europe also participated in DUM 2017 and shared their experiences in implementing Smart Grid Technologies.

### *Glimpses of DUM2017*



## TARGET AUDIENCE



1 Senior officials from Electricity Distribution Utilities in India

2 Experts from International Utilities

3 Representatives of industry working with Utilities on Specific Projects

4 Senior Government Officials from Energy Departments from various States

5 Academic Institutions and Knowledge Partners

6 Senior Officials from Ministry of Power, MNRE & CEA

# THEMES OF DUM 2018



## Regulatory and Enabling Environment for Smart Grids

- o Roadmap for Distribution Sector Reforms: What is beyond UDAY?
- o Regulatory Support for Advanced Energy Technologies and Grid Modernization
- o Ancillary Services
- o Coordination amongst DISCOMs for Accelerating Grid Modernization
  - Share Success Stories and Failures
  - Collective Voice with Regulators and Municipal Authorities
  - Share Training and Capacity Building Resources
- o Segregation of Wires and Supply and other likely developments



## DER Impact on Distribution Grid

- o Increasing RPO and Revenue Losses
- o DER Integration on LV Grid - Smart (Advanced) Inverters and Planning Tools
- o Power Quality
- o ICT Architecture for DER and Enterprise Integration
- o Customer Engagement for Behind the Meter Resources Management



## New Technologies to Accelerate Cost Effective Grid Modernization

- o Smart Metering
- o Internet of Things (IoT)
- o Next Generation Distribution Automation
- o Communication: How will it evolve?
- o Drones
- o Use of Technology for Enhancing Safety of Installations
- o Distribution Equipment with Communication Facility



## Customer: Journey from Data to Insight to Engagement

- o Leveraging Data, Advanced Analytics
- o Artificial Intelligence, Machine Learning
- o Catering to the Millennials/ Gen Y – Chatbots, Social Media
- o Ease of Doing Business



## Business Models for Evolving Opportunities

- o Distribution Franchisee Models – New Paradigms
- o Electric Vehicles
  - EVSE Business Models
  - Vehicle-Grid Integration (VGI)
- o Energy Storage
- o Blockchain

## Contact us



India Smart Grid Forum

+91-11- 41057658

dum2018@indiasmartgrid.org



The Tata Power Company Ltd., Mumbai

+91- 9223355798

dum2018@tatapower.com