

## **Invitation:**

# **ISGAN Public Conference on Distributed Generation, Microgrids, and Smart Metering**

*Bangalore, India, 14 November 2017*

***Organized by the International Smart Grid Action Network (ISGAN), in partnership with National Smart Grid Mission, Ministry of Power, Government of India.***

***Venue: Central Power Research Institute, Bangalore, India.***

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## **Background**

The International Smart Grid Action Network (ISGAN) is a mechanism for multilateral government-to-government collaboration to advance the development and deployment of smarter electric grid technologies, practices, and systems. It aims to improve the understanding of smart grid technologies, practices, and systems, and to promote adoption of related enabling government policies.

Distributed generation, microgrids, and smart metering are essential aspects of smart grids. These topics are of particular interest in the context of active customers with flexible demand and prosumers with local generation. India has very ambitious targets for deployment of smart metering, and expansion of local solar power generation is increasing rapidly. This makes India an attractive location for this event.

## **Tuesday 14 November 2017: Public conference**

Brief presentations and panel discussions on best practices for managing smart metering, as well as distributed generation and microgrids, to highlight national experiences and share key learnings. Private sector participants are welcome on the condition that they submit an abstract for a possible presentation at the conference.

The conference discussions will be based broadly on the following topics:

### **Smart metering/AMI**

- Regulatory perspective for implementing AMI for demand-side management and distributed generation

- Experience of various communication technologies for large scale rollout – interoperability and performance levels
- Steps to mitigate cybersecurity challenges
- Information and communications technology architecture and effective data management to enable multi party analysis
- Data handling in the distribution sector for operational efficiency, planning efficiency, and decision making
- Implementation challenges for AMI success
- Tariff as enabler of AMI/load management and consumer participation

### **Best practices for managing distributed generation and microgrids**

- Role of the distribution system operator for rooftop generation management
- Change in distribution grid protection requirements
  - Voltage regulations – for managing rooftop photovoltaic
  - Limit on capacity allowed per distribution transformer for rooftops
  - Measurement and management of total harmonic distortion
- Standards for grid-connected and hybrid/smart inverters
- Use of household inverter as storage – managing distributed storage
- Tariff structures for managing distributed generation

## **Practical information and participation**

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### **Cost:**

- Participation in the programme is free of charge.
- Travel and subsistence costs are, however, borne by individual participants.

### **How to participate:**

- Please secure your registration on <http://www.nsgm.gov.in/en/content/isgan-ktp-india-registrations-form>, by 1 October 2017, at the latest.
- Private sector participants are requested to submit an abstract for a possible presentation at the conference. Please submit your abstract to [kmd@powergridindia.com](mailto:kmd@powergridindia.com) no later than 1 October 2017.
- Should you have any questions, please do not hesitate to ask sending an e-mail to Magnus Olofsson, [magnus.olofsson@energiinstitutet.se](mailto:magnus.olofsson@energiinstitutet.se).

## Draft program schedule

**Venue for the event in Bangalore: Central Power Research Institute, 239/A, CV Raman Road, Kodandarampura, Armane Nagar, Bengaluru, Karnataka 560080, India.**

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### **Tuesday 14 November 2017: Public conference**

**Conference** including participants from the private sector.

10:30 Registration & Welcome tea

11:00 Opening Remarks and welcome:

11:15 Lighting of Lamp

11:20 Keynote address

11:30 Context Setting – Presentation by National Smart Grid Mission Project Management Unit

11:45 Best practices for managing Distributed Generation and Micro grids - Ravi Seethapathy

13:30 Lunch Break

14:30 Best practices for managing Advanced Metering Infrastructure/Smart Metering

17:30 Tea