



India **SMART GRID** Week 2017

International Conference & Exhibition
on Smart Grids & Smart Cities

March 08 - 10, 2017

Manekshaw Center, Dhaula Kuan
New Delhi, INDIA



ORGANISER

ISGF
India Smart Grid Forum

www.isgw.in

 [@isgw2017](https://twitter.com/isgw2017)

INDIA SMART GRID WEEK 2017

India is presently spearheading some of the largest transformation projects with technology interventions for building smart cities, renewable energy and power grid modernization. Honorable Prime Minister Shri Narendra Modi has committed to provide 24x7 reliable supply of electricity to all the citizens in the next 5 years. In order to achieve this noble objective several targeted programs have already been launched by Government of India which include: (1) Deen Dayal Upadhyaya Gram Jyoti Yojana with an investment of US\$ 7 billion, (2) Integrated Power Development Scheme that covers 5000 towns with an investment of US\$ 6 billion, (3) North Eastern Regional Power System Improvement Project (NERPSIP) with an investment of US\$ 1 billion, (4) New RE Program with a target of 175 GW by 2022 and investment commitment of US\$ 260 billion, (5) 100 Smart Cities and Rejuvenation of 500 towns where smart grids will provide clean and sustainable energy, (6) National Mission on Electric Mobility with a target of 6-7 electric vehicles by 2022; and (7) National Smart Grid Mission (NSGM) that will take up development of smart grids on fast track in coordination with the above programs. Government of India is planning to roll out of 250 million Smart Meters in next 5-7 years.

Besides on the policy side also several measures are taken to implement the above programs successfully. These include an Amendment to the Electricity Act 2003 (which is in the Parliament presently) that will usher in an era of retail competition in electricity distribution; Model Smart Grid Regulations approved by the statutory body of Forum of Regulators, Indian Standards for Smart Meters (IS 16444 - 2015 & IS 15959 Part 2, 2016) issued by Bureau of Indian Standards; and Net Metering Policies in 25 States.

INDIA SMART GRID WEEK (ISGW 2017) is the third edition of the Conference cum Exhibition on Smart Grids and Smart Cities, organised by India Smart Grid Forum from 07-10 March 2016 at Manekshaw Centre, Dhola Kuan, New Delhi, India.

ISGF is a public private partnership initiative of the Ministry of Power, Govt. of India with the mandate of accelerating smart grid deployments across the country. With 200+ members comprising of ministries, utilities, technology providers, academia and research, ISGF has evolved as a Think-Tank of global repute on Smart Grids and Smart Cities.

Highlights of India Smart Grid Week (ISGW 2016)

The Second Edition of India Smart Grid Week held in March 2016 in New Delhi witnessed participation of over 1500 experts and delegates representing nearly 400 organizations. ISGW 2016 had the support of ministries of Power, New and Renewable Energy, External Affairs, DoT and DST as well as several international organizations such as IEC, IEEE, ISE, CIGRE, UKTI, US Chamber of Commerce, GSGF, USTDA, European Commission etc. Tata Power Delhi Distribution Ltd was the host utility for ISGW 2016. All these institutions will extend support for ISGW 2017 which is planned as an international Conference and Exhibition that will bring together India's leading Electric Utilities, Policy Makers, Regulators, Investors and world's top-notch Smart Grid and Smart City Experts and Researchers to discuss trends, share best practices and showcase next generation technologies and products.

ISGW 2016 HIGHLIGHTS



ISGW 2017: Event Structure

Day-1
07 March 2017
Tuesday
Technical Tours and Smart Grid Tutorial (Optional)

Day-2
08 March 2017
Wednesday
Conference and Exhibition
Welcome Reception and Cultural Programs

Day-3
09 March 2017
Thursday
Conference and Exhibition
Awards Night and Gala Dinner

Day-4
10 March 2017
Friday
Conference and Exhibition
Musical Evening (Optional)

Day-5
11 March 2017
Saturday
Cultural Tours: Delhi & Taj Mahal (Optional)

ISGW 2017: Conference Themes

- A) **Relevance of Smart Grids in India**
 - 1. Smart Grids for 24x7 Power Supply to ALL
 - 2. Smart Grids for T&D Loss Reduction
 - 3. Smart Grids for Renewable Energy Integration
 - 4. Smart Grids for Electric Vehicle Rollout
 - 5. Smart Grids for Smart Cities
 - 6. Smart Grids for Separation of Carriage and Content - retail competition
 - 7. Smart Grids for Ancillary Services
- B) **Evolving Technology Trends for Grid Modernization**
- C) **Disruptive Innovations of the 21st Century and its Impact on Utilities**
- D) **Learnings from Smart Grid Projects**
 - 1. Learnings from Global Smart Grid Pilot Projects - USA, Canada, Europe, Japan, S.Korea, Australia, China
 - 2. Learnings from large Smart Grid deployment projects in USA, Europe, China
 - 3. Learnings from the 14 Smart Grid Pilot Projects in India
 - 4. Learnings from the Private Discoms in India
- E) **Case Studies of Successful Smart Grid Projects - select projects that won ISGAN Awards in 2014, 2015 and 2016**
- F) **Smart Microgrids for Campuses, Railway Stations, Sea Ports, Airports, Industrial Parks, Military Bases, Hotels, Hospitals and Commercial Complexes**
- G) **Cyber Physical Security of the Critical Infrastructure**
- H) **Standards and Interoperability of Equipment and Systems**
- I) **Communications Solutions for Smart Grids and Smart Cities**
- J) **Smart Grids as Anchor Infrastructure for Smart Cities**
- K) **250 Million Smart Meters in India - Rollout Strategies and Timelines**
- L) **Electric Vehicle Charging Infrastructure Rollout Strategies in Indian Cities**
- M) **Towards 100% Renewables**

ISGW 2017: Exhibition Themes

- Smart Meters, Net Meters, DCUs, Head-End Systems, MDM
- Communication Equipment and Solutions
- Transformer Monitoring Systems
- SCADA/EMS/DMS
- Distribution Automation and Substation Automation
- Gas Insulated Substations
- WAMS, PMUs, PDCs, WACS
- HVDS
- Geographical Information Systems
- Smart Homes, Home Energy Management Systems (HEMS), Home Automation
- Community Energy Management Systems (CEMS), Building Energy Management Systems (BEMS), Factory Energy Management Systems (FEMS)
- Electric Vehicles (EV) and EV Supply Equipment or Charging Infrastructure (EVSE) and Payment Systems
- V2G and B2G Technologies
- Microgrids
- Energy Storage Technologies - Batteries (Fuel Cells, NaS, LiB, Flow Batteries); Compressed Air Energy Storage (CAES), Fly Wheels, Super Capacitors etc
- Renewable Energy Resources - Solar (PV, CPV, Thermal), Wind, Biofuels, Wave Energy etc
- Tools for forecasting, scheduling and dispatching of renewable energy
- Smart Inverters, Harmonic Compensators
- Demand Response
- LVDC Grids, Nano Grids
- M2M Communications and IoT
- Smart City Solutions
- Smart Street Lighting
- Energy Efficiency
- Net Zero Energy Buildings
- Mobile Applications
- Big Data and Analytics
- Cloud Computing for Smart Utilities and Smart Cities
- Cyber Security
- Standards and Interoperability
- Robotics, Drones, Wearable Devices, 3-D Printing
- Social Media
- Nano Technology and New Materials - Carbon Fiber, Graphene, Shrilk, Stanene, Designer Nano Crystals, Ultrathin Platinum, Self-Healing Plastics, Metamaterials

International Events in Conjunction with ISGW 2017

- 1. ISGAN ExCo Meeting*
- 2. GSGF Annual Meeting*
- 3. Fifth EU-India Smart Grid Workshop
- 4. Second Canada - India Smart Grid Workshop
- 5. Third US-India Smart Grid Workshop
- 6. First Israel - India Smart Grid Workshop
- 7. First South Korea- India Smart Grid Workshop
- 8. Plenary Meeting of IEC PC 118*

*ISGF Offered to host these events; confirmations expected by Q3/2016