



**ACCELERATING THE ELECTRIC  
GRID MODERNIZATION AND  
SMART INFRASTRUCTURE IN INDIA**

# ABOUT INDIA SMART GRID FORUM (ISGF)



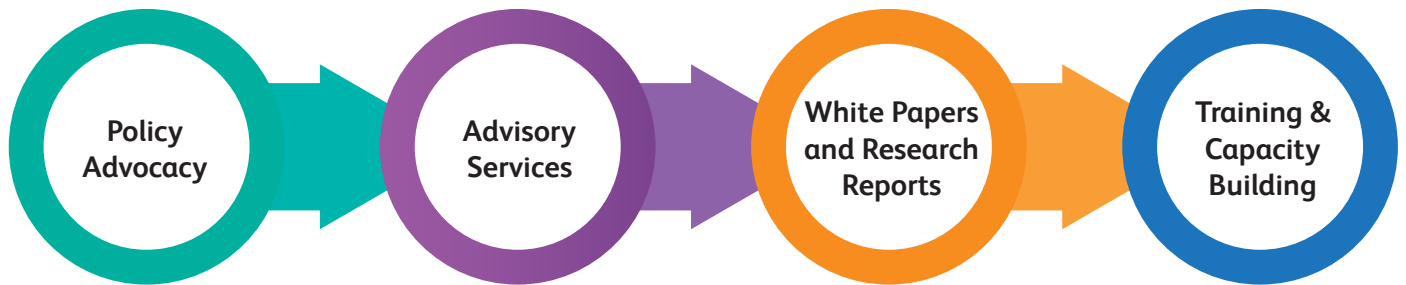
A Public Private Partnership initiative of Ministry of Power, Government of India for accelerated development of smart grid technologies in the Indian power sector; Advise Governments on policies and programs for electric grid modernization. ISGF work with MNRE, MoUD, DoT, DST, DHI, CEA, CPRI, CERC, Niti Aayog, NSGM, NCIIPC; and also with State Governments, Utilities and Regulators

Besides the electricity sector, ISGF work with City Gas Distribution and Water Distribution Utilities

Work with national and international agencies in standards development and help Utilities, Regulators and the Industry in technology selection, training and capacity building

Vibrant platform for exchange of ideas and knowledge dissemination; conduct research studies and publish White Papers and Technical Reports, Training Programs and Seminars, Bilateral and Multilateral collaboration Workshops

200+ members comprising of ministries, utilities, technology providers, academia and research; ISGF has evolved as a Think-Tank of global reputation on Smart Grid and Smart Cities; 8 Working groups focused on different aspects of Grid Modernization, Smart Gas and Smart Water



## DOMAIN OF EXPERTISE

-  Smart Grid and Smart Metering
-  Smart Water and City Gas Distribution
-  E-Mobility
-  Artificial Intelligence and Advance Analytics
-  Smart Cities
-  Renewables, Energy Storage and Microgrids
-  Cyber Security
-  Blockchain

## FUNCTIONAL EXPERTISE


-  Policy Advocacy
-  Development of Standards
-  Implementation Roadmaps
-  Roll out Plans and Strategies
-  RFP Preparation and Evaluation
-  DPR and Project Appraisals
-  Research and Studies
-  Training and Capacity Building

## SIGNIFICANT ACHIEVEMENTS



### POLICY ADVOCACY

- Knowledge partner for India Energy Security Scenario 2047
- Model Smart Grid Regulations approved by Forum of Regulators (2015)
- Formation of Smart Grid Coordination Committee in Maharashtra, Orissa and Assam
- Member of Advisory Committee Haryana
- Creation of National Smart Grid Mission (NSGM) (2015)
- Changes in Electricity Act for Smart Grids and EVs (in progress)



### DEVELOPMENT OF STANDARDS

- Smart Meter Standards IS-16444 & IS 15959 (2015)
- Electric Vehicle Charging Infrastructure Standards IS: 17017-1 (2018) BIS ETD28 Committee for Standards for Smart Infrastructure
- BIS ETD 46 Committee for Standards for Large Scale RE-Integration to the Grid (Work in Progress)



### IMPLEMENTATION ROADMAPS

- Smart Grid Vision and Roadmap for India (2013)
- Smart Grid Roadmap for Bangalore Electricity Supply Company
- Implementation Plan for Electrification of Public Transportation in Kolkata (2017)
- Energy Storage Roadmap for India (in progress)
- Establishment of Charging Infrastructure for Deployment of Electric Buses in Kolkata (in progress)
- Smart Grid Roadmaps and EV Roadmaps for SAARC Countries (in progress)



### RESEARCH AND STUDIES

- Study of Smart Grid Market Scenario in India
- A Diagnostic Study of the Energy Efficiency Potential of IoT in India
- Smart Grid Handbook for Regulators and Policy-makers (2017)
- Manual on Cyber Security for Power Systems (2016 - Draft being reviewed by CEA)
- Framework for Cyber Security Preparedness Survey of Electric Utilities
- Allocation of 7 MHz of License Free Spectrum for Smart Grid Applications by TRAI

## CONFERENCE, WORKSHOPS AND TRAINING PROGRAMS MULTILATERAL & BILATERAL COLLABORATION WORKSHOPS

### WORKSHOPS AND TRAINING PROGRAMS

- Smart Grid Foundation Course (3 days)
- Cyber Security Workshop (3 days)
- Regulatory Workshop (3 days)
- Smart Grid Bootcamp (1 day)
- Customer Engagement Training Program (3 days)
- Smart Grid Certificate Course (10 weeks)
- Smart Grid Foundation Course for ASEAN Country Delegation (5 days)

### COLLABORATION WORKSHOPS

- EU - India Smart Grid Workshops (5 Editions)
- US - India Smart Grid Workshops (4 Editions)
- Sweden - India Smart Grid Workshops (3 Editions)
- Canada -India Smart Grid Workshops (2 Editions)
- IEC - IEEE World Smart Energy Standardization Co-ordination Workshops (2 Editions)
- France - India Smart Grid Workshop (1 Edition)

## INDIA SMART UTILITY WEEK (ISUW)



Five successful editions from 2015-2019 of ISUW, a Conference and Exhibition has emerged as the global signature

event on Smart Grids and Smart Cities which is attended by the top most experts from around the world. The Fifth Edition of ISUW conducted in 2019 was attended by over 1800+ participants from 41 countries and had over 288 experts as speakers.

The next edition of India Smart Utility Week (ISUW 2020) is scheduled from 03-07 March 2020 in New Delhi. ISUW 2020 will cover key components of Smart Cities including Smart Grids, Smart Water and Smart City Gas Distribution.

## DISTRIBUTION UTILITY MEET (DUM)



**DISTRIBUTION UTILITY MEET**

Smart Grids are a new concept and utilities around the world have started gaining experience in smart grid technologies. 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. Towards this objective, ISGF has been organizing Distribution Utility Meet (DUM) since 2017.

The first edition of DUM in 2017 was hosted by Bangalore Electricity Supply Company (BESCOM) in November 2017 in Bangalore and the second edition was hosted by Tata Power Delhi Distribution Ltd and Tata Power Mumbai in Mumbai in Nov 2018. DUM 2018 was a huge success with participation of 30+ utilities from India. DUM provides a unified voice to influence and enable the DISCOM community to leverage each other's experiences for successful nationwide smart grid roll outs and to bridge the gap between strategy and execution. Leading utilities from USA, Canada and Europe also participated in DUM 2018 and shared their experiences in implementing Smart Grid Technologies.

Third edition of DUM will be held on 07 - 08 November 2019 in New Delhi and will be hosted by BRPL, BYPL, TPDDL and Tata Power Mumbai.



# KNOWLEDGE DISSEMINATION AND MANAGEMENT

## India Smart Grid Knowledge Portal

- ISGKP is one of the most popular portals for all the updates and news about Indian Smart Grid Sector.
- Apart from Smart Grid News, ISGKP covers ISGF Whitepapers, ISGF Research Reports, Latest Events, Smart Grid Pilot Projects, ISGF Smart Grid Monthly Bulletins, ISGF Presentations and various other updates about the activities of ISGF.
- ISGKP is visited by several thousand monthly visitors from across the globe.
- Visit Portal at <http://indiasmartgrid.org/>

## ISGF Smart Grid Bulletin

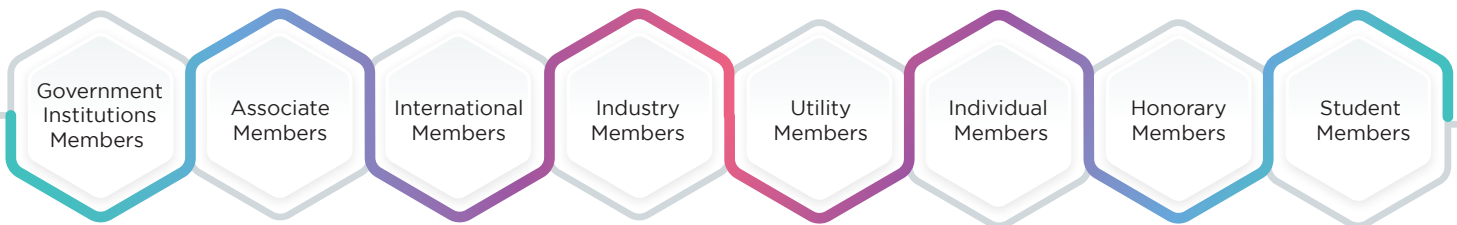
- ISGF publishes Smart Grid Bulletin, a monthly Newsletter since January 2014. About 2,500 print copies are circulated to key decision makers in Indian power sector; and more than 55,000 electronic copies are circulated to professionals around the world.
- It covers key achievements and highlights of Smart Grid developments around the world, Smart Grid technology and project updates, Smart Grid Pilot Project in India, Smart Grid Events and announcement of all the training programs, workshops and conferences by ISGF.
- To read all the issues of monthly bulletin visit weblink: <http://indiasmartgrid.org/newsletter.php>

## Whitepapers/Knowledge Papers/ Reports

- Energy Leveraging Smart Grid Assets for Building Smarter Cities at Marginal Cost
  - Policy Framework for Electric Rickshaws in Delhi
  - Electric Vehicle : A sustainable solution to air pollution in Delhi
  - Joint Knowledge Paper on Smart Grids in India along with Bloomberg New Energy Finance (BNEF)
  - Leveraging Social Media by Electric Utilities for Effective Customer Engagement
  - Blockchain - A revolutionary and highly disruptive Technology for Future Energy Transactions
  - Smart Microgrid for large campuses and institutions
  - Leveraging Social Media by Utilities for Effective Customer Engagement
  - Next Generation Smart Metering: IP Metering
  - AMI Rollout Strategy and Cost-Benefit Analysis for India
  - Joint Knowledge Paper on Recommendation for Updating India Smart Grid Roadmap with Accenture
  - Compendium of Training Programs in Power Sector
  - Electric Vehicle Charging Stations Business Models for India
- More at: <http://indiasmartgrid.org/resourcecenter.php>**

## ISGF MEMBERSHIP CATEGORIES

ISGF members are from the ministries, government institutions, regulatory bodies, utilities, industry, non-profit organizations, educational and research entities and students from renowned institutions



## BENEFITS OF ISGF MEMBERSHIP

### Participation in Policy Initiatives for Government of India, State Governments, Regulators and Utilities

- Contribute towards formulation of national policies and programs related to smart grids, renewable energy and smart cities domains
- Engage with policy makers, utilities, smart city commissioners/CEOs, regulators, system integrators, OEMs, academia and research; and industry associations in India
- Participate in development of national standards in India through ISGF in committees of Bureau of Indian Standards (BIS)
- Contribute towards research reports and white papers prepared by ISGF Working Groups which are often translated to policies and programs
- Participate actively in the technology sessions and workshops conducted by ISGF, also contribute towards technology topics of common interest - both related to business and also to the need of the country

### Advisory Support to Members Organizations

- Assistance for testing and certification of products in India
- Assistance for undertaking proof of concept and technology demonstration projects in India
- Get advance information on smart grid policies and programs
- Seek guidance for technology and best practices from the panel of experts from academia, industry and utilities

- Have access to smart grid technology and developments across the globe and participate in international smart grid fora like Global Smart Grid Federation (GSGF), IEC, IEEE, etc.
- Avail substantial discounts for participation in India Smart Grid Week ([www.isgw.in](http://www.isgw.in)) and other ISGF events, training programs and workshops
- Participate in major national and international events where ISGF is co-organizer/supporting partner (complimentary registration/substantial discounts in participation fee and exhibition booths for all major events related to utility sectors across the globe)
- Assistance from ISGF Team in conducting training and capacity building programs
- Assistance for holding focused workshops with key utility customers and policy makers
- Get visibility to a larger audience working in the same domain (mainly applicable to start-up companies) and build an ecosystem enabling business activities

### Other Benefits

- Regular promotions through India Smart Grid Knowledge Portal (ISGKP); ISGF Social Media Tools; ISGF Smart Grid Bulletin; and through ISGF Mailing List
- Support in Selection and Recruitment of Professionals and ecosystem Partners
- Focused Workshops for ISGF Members with utilities and key decision makers

For more details, please visit ISGF website page: <http://indiasmartgrid.org/membership.php>

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