SMART GRID FOUNDATION COURSE

ONLINE (RECORDED) TRAINING
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. In the recent past we are witnessing increasing share of renewable generation resources being added at the low voltage or distribution segment of the grid which is a major transformational change to the electric grid. The traditional boundaries between Generation, Transmission and Distribution are fast disappearing and the grid is evolving as an integrated grid. Smart Grid technologies have emerged as the key enablers for both integration of distributed and variable renewable energy resources 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, 450 GW of Renewable Energy by 2030, National Mission on Electric Mobility with a target of 6-7 million Electric Vehicles etc.

In the evolving grid of the future, digital technologies will play the crucial role for the stable grid operations. The high-voltage transmission grid in India already deploys advanced automation and digital technologies and the electricity distribution companies have also embarked on their digital journey through several programs promoted by the Ministry of Power (MoP), Government of India. The lockdowns owing to COVID-19 around the world have dramatically changed the way we work and live in a short span. The operations and work environment of electric (and other) utilities have also changed in the last one year.

ISGF has been spearheading the movement towards digitalization of utilities in India. Although, the actual implementation in many utilities may still be not satisfactory, there is already a unanimous voice for taking this journey to full digitalization. In the aftermath of COVID-19, these digital platforms have become the coveted assets for utilities in their business continuity and resiliency. ISGF has created the platform to bring together experts from government, utilities, industry, academia and research as well as regulators to build support for smart grid policies and programs in India. The industry and utilities have time and again raised concerns about the dearth of trained people and knowledge gap among the workforce in the fast-changing technology domains. In order to successfully implement new programs, it is necessary to create a pool of talented and skilled manpower. Towards this objective one of the mandates of ISGF is to conduct training and capacity building programs in the area of grid modernization.

With this background ISGF is pleased to announce Smart Grid Foundation Course. This course has been developed as a unique program on Smart Grids that will help to understand the new technologies, its relevance, potential and challenges for grid modernization. This program will enable the participants to play a critical role in the Smart Grid development in their organizations.

**OBJECTIVES**

- Help the participants to understand the relevance of Smart Grids, its potential and challenges
- Enable them to identify the key barriers in realizing the successful development of a robust Smart Grid ecosystem; and play a critical role in the Smart Grid development in their organizations
- Provides the participants a platform for technology discussions with experienced industry experts
- Help in defining the problems that the utilities now experience and showcase how Smart Grid technologies and solutions can help resolve them
- Provide learning on various Smart Grid technologies and their real-world applications
- Support in determining key market drivers for implementing the emerging technologies
- Understanding the business models for different Smart Grid applications
TARGET AUDIENCE & ELIGIBILITY

- Engineers from DISCOMs and TRANSCOs executing/intending to execute SmartGrid projects
- Engineers from Regulatory Commissions and Smart Grid Project Management Units in state energy/power departments
- Fresh Engineering Graduates interested in a career in Smart Grids domain
- Smart Grid/Smart City Enthusiasts and Entrepreneurs

TOPICS COVERED

| Module 1: | Introduction to Smart Grids |
| Module 5: | DER Integration |
| Module 9: | Flexibility Solutions |
| Module 13: | New and Emerging Technologies |
| Module 2: | Smart Grid Maturity Model |
| Module 6: | Smart Microgrids |
| Module 10: | Cyber Security |
| Module 14: | Advanced Analytics |
| Module 3: | Introduction to Smart Grid Technologies Part A and Part B |
| Module 7: | Electric Vehicles and Charging Infrastructure |
| Module 11: | Blockchain Applications |
| Module 15: | Business Models for Smart Grid Applications |
| Module 4: | Advanced Metering Infrastructure |
| Module 8: | Energy Storage Systems |
| Module 12: | Artificial Intelligence and Robotics |
| Module 16: | Policy, Regulatory and Standards Aspects |
| Module 17: | Digitalization in Utilities |

Valedictory Session

TRAINING METHODOLOGY

- Recording of live lectures will be available on ISGF Portal to view or access at anytime
- Study from Home/Office as per your comfort
- Pause reading and restart the module as per your preference
- No compulsion of 70% attendance to gain certificate

- An online examination will be conducted for participants. Participants undergoing Online (Recorded) Training will receive a Certificate of Completion after successful completion of examination
TRAINING OPTION AND FEE DETAILS

ONLINE (RECORDED) TRAINING

INR 5000+ 18% GST *

Applicable 18% GST to be charged on above course fee

1) REGISTRATION AND ONLINE PAYMENT DETAILS:

a. Use the link provided below to Register and make payment for the Online or Online (recorded) Training:
   https://indiasmartgrid.org/onlinetrainingprogram/

b. All Types of Debit Card / Credit Card, Paytm, Google Pay and Net Banking will be accepted for registration at ISGF Training Portal

2) ALTERNATE PAYMENT OPTIONS:

Participants can also pay the Training Fee to ISGF through NEFT/Fund Transfer. ISGF Bank details are as follows:

- Account Name: IndiaSmartGridForum
- Address: CBIP Building, Malcha Marg, New Delhi – 110021
- Account Number: 00031110005017
- Bank Name: HDFC Bank Ltd
- RTGS/NEFT/IFSC Code: HDFC0000003
- Bank Address: 209-214 Kailash Building, 26 K G Marg, New Delhi – 110001

- For current ISGF Members
- For Bonafide Students and Faculties from reputed Educational Institutions
- On group booking of more than 4 persons from the same organisation

5% discount for sharing this Training Program Banner/Brochure on your any 3 Social Media Accounts (LinkedIn, Facebook, Twitter, Instagram etc)

Banner/Brochure can be downloaded from https://indiasmartgrid.org/onlinetrainingprogram/

- The links posted have to be shared with ronkini.shome@indiasmartgrid.org to obtain the discount
- The above offer is Non-Transferable

Please Note:

- Two discount offers cannot be clubbed
- Valid identity proof of Bonafide Students/Faculties need to be emailed to ronkini.shome@indiasmartgrid.org to avail the discount
- ISGF Members have to email to ronkini.shome@indiasmartgrid.org to avail the discount
- Once Payment is made no refund, discount/offer request will be entertained:
LIST OF TUTORS

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The Tata Power Company Ltd.

Lalit Wasan
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VL Sonavane
MERC (Former)

Vasanth Prabhu
Tata Power Delhi Distribution Ltd.
India Smart Grid Forum (ISGF) was established as a Public Private Partnership (PPP) initiative of Government of India for accelerated development of smart grid technologies in the Indian power sector in March 2011. It is registered under Indian Societies Registration Act (Act XXI of 1860). ISGF was set-up to provide a mechanism through which academia, industry, utilities and other stakeholders could participate in the development of Indian smart grid systems and provide relevant inputs to the government’s grid modernization program. ISGF work closely with the Ministry of Power, Ministry of New and Renewable Energy, Department of Telecom, Ministry of Heavy Industries, Department of Science and Technology and Ministry of Urban Development and NCIIPC. With 170 + members comprising of ministries, utilities, technology providers, academia and students, ISGF has evolved as a globally reputed think tank in smart grids and smart cities.

About ISGF

Contact us

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Website: www.indiasmartgrid.org

For General Queries and Registration, please write to ronkini.shome@indiasmartgrid.org

For Utility Registration yashika@indiasmartgrid.org

Visit https://indiasmartgrid.org/onlinetrainingprogram/