

Session 11: Training and Capacity Building in Utilities and Industry

Session content:

- Knowledge dissemination platforms
- Training programs and events
- ISGF Initiatives for Women in Energy

Speaker:

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Executive Director

India Smart Grid Forum

About the India Smart Grid Forum (ISGF)



The India Smart Grid Forum (ISGF) has evolved as a Think-Tank of global repute on Smart Energy, Electric Mobility and Energy Transition

ISGF, established as a Public Private Partnership initiative of Government of India in 2011, is spearheading the mission to accelerate electric grid modernization, electric mobility and energy transition in India

200+ members comprising of ministries, utilities, technology providers, academia and research

8 Working Groups: Grid Modernization & Smart Cities; IoT, Smart Metering, AI & Analytics; Digital Architecture and Cyber Security; Policy, Regulations and Business Models; Renewables & Microgrids; Flexibility & Electric Mobility; Smart Gas; Smart Water

ISGF has been driving the digitalization of utilities and is actively involved in training and capacity building and various advisory and research activities

Knowledge Dissemination Platforms

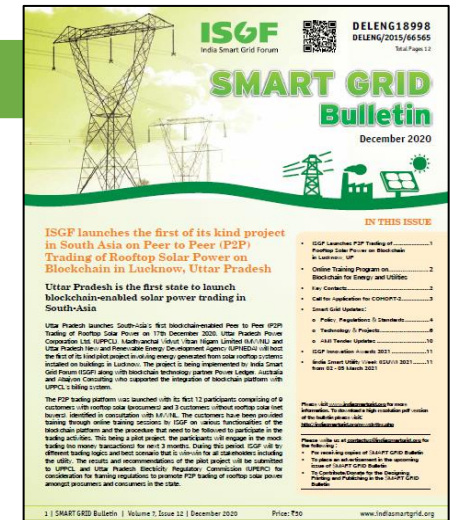
INDIA SMART GRID KNOWLEDGE PORTAL (www.indiasmartgrid.org)

- Launched in January 2013
- One of the most popular portals on Smart Grid, RE, EV, Smart Cities



MONTHLY SMART GRID BULLETIN

- Monthly Bulletins launched in January 2014
- Circulation of over 75K in 110 countries



ISGF Annual Events

India Smart Utility Week (Since 2015 : Held in March)

- International Conference and Exhibition on Smart Grids, Renewable Energy, E-Mobility and Smart Cities
- Knowledge sharing platform for Policy Makers and Regulators, Utilities, Technology Providers, Academia and Research, Entrepreneurs and Technology Enthusiasts
- Best practices and show case next generation technologies and products
- Website: www.isuw.in

Distribution Utility Meet (Since 2017: held in November)

- DUM is the unified voice of the DISCOM community to influence policy and regulations for grid modernization
- DUM provides an effective platform to DISCOMs to leverage each other's experiences and resources for successful nationwide smart grid rollouts
- Website: www.dumindia.in



ORGANIZER
ISGF
India Smart Grid Forum

India SMART UTILITY Week 2024

12 - 16 March 2024
📍 **New Delhi**

ISUW 2024
10th Edition of
India Smart Utility Week,
An International Conference
and Exhibition on
Smart Energy and Smart Mobility

✉ isuw@isuw.in 🌐 www.isuw.in

12 March 2024 Tuesday	13 March 2024 Wednesday	14 March 2024 Thursday	15 March 2024 Friday	16 March 2024 Saturday
Special Workshops	Conference and Exhibition	Conference and Exhibition	Conference and Exhibition	Technical Tours, Demonstration and Cultural Tours

📅 **ISGF INNOVATION AWARDS : 15 MARCH 2024**

Follow us at #ISUW24 🐦 🌐 📺

ORGANIZER **ISGF** India Smart Grid Forum

HOST UTILITY **KSEB** ksrb



DISTRIBUTION UTILITY MEET DUM 2023

7th Annual Conference of Power Distribution Utilities for Collaborative Growth

02 - 03 NOVEMBER 2023
KOCHI, KERALA

🌐 www.dumindia.in ✉ dum@indiasmartgrid.org



ISGF Training Programs

ISGF has been conducting specialized training programs to build capacity of relevant stakeholders since 2013

1. **Smart Grid Foundation Course:** 3 Days Classroom + 2 Days Site Visits (250+ attended in 8 editions)
2. **Smart Grid Bootcamp:** 1 Day (250 attended in 5 editions)
3. **Cyber Security for Power Systems:** 2 Days (136 attended in 7 editions)
4. **Advanced Metering Infrastructure:** 2 Days (55 attended in 2 editions)
5. **E-Mobility and Charging Infrastructure:** 2 Days (50 attended in 2 editions)
6. **Certificate Course in Smart Grids:** 10 Weeks (20 attended in 1 edition)

Online Training Programs - Live Classes and Recorded: over 1000 persons trained on this platform since May 2020

1. **Smart Grid Foundation Course: 45 Hrs** (186 certified so far)
2. **Cyber Security for Power Systems: 14 Hrs** (131 certified so far)
3. **Advanced Metering Infrastructure: 26 Hrs** (305 certified so far)
4. **E-Mobility and Charging Infrastructure: 28 Hrs** (182 certified so far)
5. **Artificial Intelligence and Robotics for Utilities and Smart Cities: 95 Hrs** (132 certified so far)
6. **Blockchain Applications for Utilities: 27 Hrs** (186 certified so far)

New Programs Added Online in 2023

1. ***Transformer Models and Generative AI Tools***
2. ***Technical Training on OCPP***

Training Programs – Online

SI No	Online Training Program	Schedule	Hours of Training	No of Participants Trained
1	Smart Grid Foundation Course	<p>Conducted from May 2020 to April 2021</p> <p>Recorded versions hosted on ISGF portal for participants to register and study</p> <p>Certificates issued to those who complete the Online Examinations</p>	45	186
2	Cyber Security for Power Systems		14	131
3	Advanced Metering Infrastructure		26	305
4	E-Mobility and Charging Infrastructure		28	182
5	Artificial Intelligence and Robotics for Utilities and Smart Cities		95	132
6	Blockchain Applications for Utilities		27	186

Live Classes and Recorded: over 1500 persons trained on this platform since May 2020

Bi-lateral Workshops and International Events

BI-LATERAL WORKSHOPS

1. **India - EU Smart Grid Workshops:** 11 editions held
2. **India - Canada Smart Grid Workshops:** 2 editions held
3. **India - Sweden Smart Grid Workshops:** 5 editions held
4. **India - USA Smart Grid Workshops:** 8 editions held
5. **India- France Smart Grid Workshops:** 3 editions held
6. **India - Germany Smart Grid Workshop:** 1 edition held

INDIAN DELEGATIONS TO INTERNATIONAL EVENTS

1. **CIGRE Session:** Since 2012
2. **European Utility Week:** Since 2014
3. **CIREN:** Since 2015
4. **DistribuTECH, USA:** Since 2014
5. **Asian Utility Week:** Since 2016
6. **Innovation for Cool Earth Forum (ICEF), Japan:** Since 2014
7. **Istanbul International Smart Grid Congress:** Since 2015
8. **Korea Smart Grid Week:** Since 2013
9. **Asian Clean Energy Forum (ACEF) by ADB:** Since 2012

ISGF Initiatives for Women in Energy

To encourage women workforce in Energy Sector, ISGF is offering 50% discount on all Training Programs



Special Offer for #WomenInEnergy on ISGF Training Programs

JOIN ISGF ONLINE TRAINING PROGRAMS

<p>Supported By</p>  <p>ADVANCED METERING INFRASTRUCTURE</p>	<p>Knowledge Partners</p>  <p>CYBER SECURITY FOR POWER SYSTEMS</p>	<p>Supported By</p>  <p>BLOCKCHAIN FOR ENERGY AND UTILITIES</p>
<p>Knowledge Partners</p>  <p>ELECTRIC MOBILITY AND CHARGING INFRASTRUCTURE</p>	<p>Supported By</p>  <p>ARTIFICIAL INTELLIGENCE AND ROBOTICS FOR UTILITIES AND SMART CITIES</p>	<p>Knowledge Partner</p>  <p>SMART GRID FOUNDATION COURSE</p>

LEARN WHENEVER CONVENIENT TO YOU

Registration Link <https://indiasmartgrid.org/onlinetrainingprogram/>

ISGF Initiatives for Women in Energy

Women in Energy Workshop 2019: ISGF conducted first roundtable on Women in Energy in partnership with C3E and IEA on side lines of India Smart Utility Week (ISUW) 2019 in March 2019

Women in Energy Workshop 2020: Another session on Women in Energy was held as part of ISUW 2020

Women in Energy Workshop 2022: A workshop on Empowering Women in Power and Water Sector was also organized in March 2022 on as part of ISUW 2022 on Virtual Platform bringing together 100+ Senior leaders from India and around the world

The banner is a promotional graphic for a workshop. At the top left, it says 'Organizer ISGF India Smart Grid Forum'. At the top center, it says 'India SMART UTILITY Week 2022' with a globe icon. At the top right, it says 'Session Partner WePOWER' with a logo. Below this, it says '02 - 04 March 2022 | On Digital Platform'. The main title is '8th International Conference and Exhibition on Smart Energy and Smart Mobility'. Below that, it says 'Join Us for Workshop' and 'Empowering Women In The Power and Water Sector'. The date and time are 'on 02 March 2022 17:30 - 19:30 Hrs (IST)'. At the bottom, it says 'DAY 2 of ISUW 2022'. There are social media icons for email (isuw@isuw.in), Twitter (@ISUW22), LinkedIn (India Smart Utility Week), and Facebook (@ISUW22). The background features a colorful illustration of a smart city with wind turbines, solar panels, and modern buildings.

WePOWER India Partnership Forum



- To promote and give importance to the gender equality in the Energy sector, ISGF has been spearheading the mission and conducting multiple Workshops, Roundtables, Panel Discussions, Fire-side chats and Technical Meetings
- Towards this goal ISGF in collaboration with World Bank and ADB hosted the Nationwide Launch for the India Partnership Forum to support **WePOWER** engagement with Indian utilities to become **WePOWER** Partners.
- To forge ongoing partnerships, a series of eight Technical Meetings were also organized by ISGF post the National Launch

ISGAN Award of Excellence 2022

In recognition of ISGF's pioneering role in training and capacity building of workforce for electric grid modernization and energy transition, prestigious ISGAN Award of Excellence 2022 was conferred on ISGF



Thank You

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