



# India SMART UTILITY Week 2021

7<sup>th</sup> International Conference and Exhibition  
on Smart Energy and Smart Mobility  
for Smart Cities

**02 - 05 March 2021**

📍 Digital Platform

## Supporting Ministries



संघीय सरकार  
Ministry of Power  
Government of India



संघीय सरकार  
Ministry of New & Renewable Energy  
Government of India



संघीय सरकार  
Ministry of Environment  
Forest and Climate Change  
Government of India



संघीय सरकार  
Ministry of Jal Shakti  
Government of India



संघीय सरकार  
Ministry of Housing and Urban Affairs  
Government of India



संघीय सरकार  
Ministry of Science  
& Technology  
Government of India



संघीय सरकार  
नीति आयोग  
National Institution for  
Transforming India



## ISUW 2021 - POST EVENT REPORT

Organiser

Powered by

Host Utilities

Co-Host Utilities



[www.isuw.in](http://www.isuw.in)

[isuw@isuw.in](mailto:isuw@isuw.in)

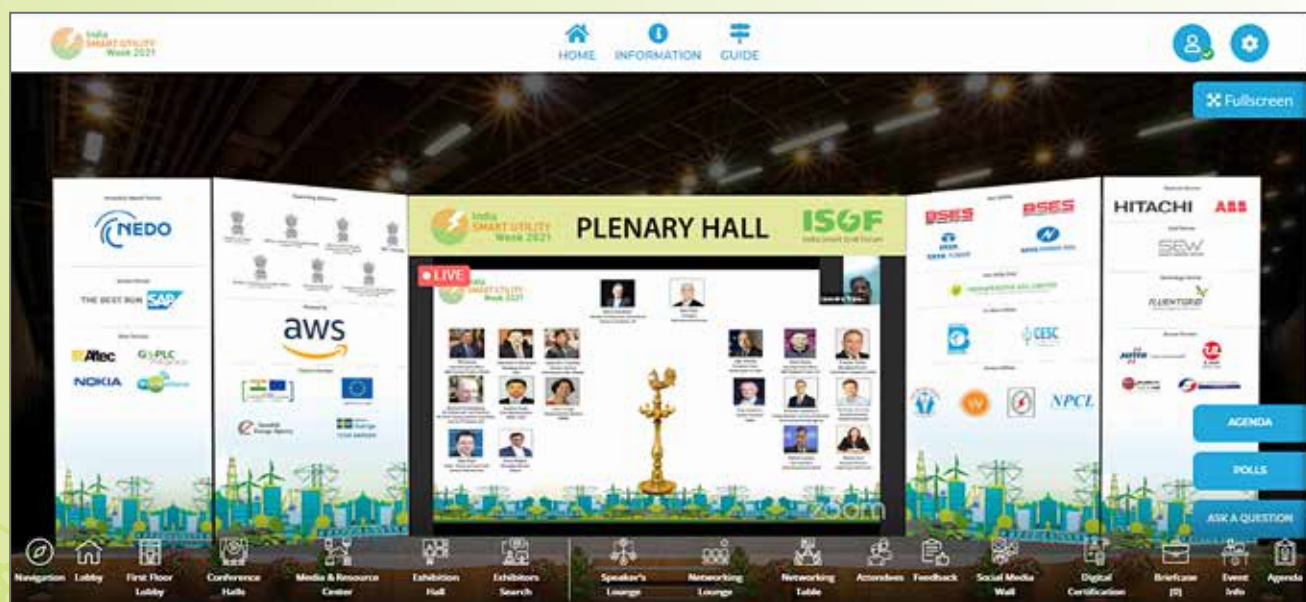
@ISUW2021

# 7th India Smart Utility Week 2021

## An Exclusive and Outstanding Digital Conference and Exhibition

02 - 05 March 2021, Digital Platform

The 7th edition of ISGF's flagship annual event, the India Smart Utility Week (ISUW) 2021, an International Conference and Exhibition on Smart Energy and Smart Mobility for Smarter Cities was held from 02 - 05 March 2021 on a 3D Digital Platform. ISUW 2021 has witnessed participation of 457 Visionary Leaders, Utility CEOs, Regulators and Subject Matter Experts from 23 Countries as Speakers. From the overwhelming feedbacks we received, ISUW 2021 was an astounding success attended by over 2700 Conference Delegates including 564 Utility Officials and 2531 Exhibition Attendees from 50+ Countries.



ISUW 2021 provided an effective platform for virtual interactions on themes related to : (1) Innovation in Utilities During the Pandemic; (2) Regulatory Support in Different Countries for Revival of Utilities; (3) Smart Meter Rollout in India; (4) Energy Storage Systems – Technologies, Business Models and Regulations; (5) Disaster (and Pandemic) Resilient Utilities and Cities (In partnership with NIUA); (6) Cyber Security for Digital Utilities; (7) Disruptive Technologies and Innovations for Utilities; (8) New Revenue Opportunities for Utilities; Special Plenary - 1: Customer Rights Protection Order by Ministry of Power – Action by Utilities and Regulators; Special Plenary - 2: Grid Integrated Vehicles (GIV) and Standards for GIVs.

Bilateral and Special Workshops conducted at ISUW 2021 included (1) 10th EU-INDIA Smart Grid Workshop in Partnership with European Union; (2) 5th SWEDEN - INDIA Smart Grid Workshop (In partnership with Department of Science and Technology (DST), Swedish Energy Agency and Business Sweden; (3) 7th US - INDIA Smart Grid Workshop - In partnership with US Commercial Services; US DoE; and USIBC; (4) 5G for Smart Utilities and Smart Cities - In partnership with TSDSI; (5) IEC – IEEE World Smart Energy Standardization Coordination Workshop (6) Workshop on District Cooling Systems - In partnership with APUEA; (7) Workshop on Live Line Maintenance in Utilities. Roundtable Meetings conducted during ISUW 2021 were (1) Interconnection of Regional Grids in Asia; (2) Electric Cooking; (3) Digital Architecture and System Integration for Smart Metering; (4) Urban Air Mobility Systems (UAM); (5) Blockchain Applications in Energy Sector. Seminars at ISUW 2021 were conducted on topics such as (1) Smart Water Distribution ~ Powered by Amazon Web Services; (2) Presentation of Select Technical Papers; (3) Smart City Gas Distribution and Green Hydrogen.

As part of ISUW 2021, a 3D digital exhibition with features similar to physical exhibition was also organised to showcase latest technology and projects on various domains of Smart Grid from India and around the world. There were 38 exhibitors and Partners who exhibited at the event. ISUW 2021 exhibition also had European Union Pavilion. Key Partners, Host Utilities and Exhibitors at ISUW 2021 were Amazon Web Services as Powered by Partner; Host Utilities: Tata Power Delhi Distribution Limited, Tata Power Company Limited – Mumbai,

BSES Yamuna Power Limited, BSES Rajdhani Power Limited; Indraprastha Gas Limited. Co-Host Utilities: BESCOM, CESC – Kolkata; Partner Utilities: MPPKVNL, POSOCO, TSECL, NPCL; Platinum Partner: HITACHI ABB; ISGF Innovation Awards Partner: NEDO, Japan; Gold Partner: Smart Energy Water; Session Partner: SAP; Technology Partner: Fluentgrid; Silver Partners: G3-PLC Alliance, Wi-Sun Alliance, Nokia, Altech; Country Partners were Swedish Energy Agency, European Union and US Commercial Services; Bronze Partners: NEST, HMS, UL Group; CMS. Exhibitors of ISUW 2021 were System Level Solutions; CUCULUS; Subhasree, Waterfall Securities, ADD Group, IGEF, Anvil Cables Pvt Ltd; Yitran; Tabreed and 20+ companies from EU at the Pavilion.

Virtual Live Performances by a renowned Band, Musicians and Dance Artists were also there for all the attendees. Mornings at ISUW started with Virtual Yoga sessions. ISUW also witnessed Celebrity Talk by Devdutt Pattnaik. The Valedictory Session was conducted in Hybrid format with 5th edition of ISGF Innovation Awards that were given to 29 Winners under 10 Categories out of 117 Nominations received. These awards were given to recognize and promote some of the outstanding innovations by utilities, technology providers and start-ups.

## ISUW 2021: AT A GLANCE

**2<sup>nd</sup> March 2021**  
**Tuesday**

Conference &  
Exhibition

**3<sup>rd</sup> March 2021**  
**Wednesday**

Conference &  
Exhibition

**4<sup>th</sup> March 2021**  
**Thursday**

Conference &  
Exhibition

**5<sup>th</sup> March 2021**  
**Friday**

Conference &  
Exhibition

**ISGF INNOVATION AWARDS 5<sup>th</sup> March 2021**

**ISUW  
2021**

**KEY  
HIGHLIGHTS**



**2700+**  
Participants



**7**  
Supporting  
Ministries



**28**  
Key  
Partners



**38**  
Exhibitors



**30**  
Supporting  
Organisations



**21**  
Supporting  
Media  
Partners



**13**  
Thematic  
Sessions



**2**  
Special Plenary  
Sessions



**7**  
Workshops/  
Seminars



**5**  
Roundtables



**3**  
Bilateral  
Workshops



**457**  
Speakers



**13**  
Thematic  
Session  
Partners



**49**  
Countries



**564**  
Participants  
from Utilities



**50**  
Technical  
Papers



**10**  
Innovation  
Award  
Categories



**117**  
Award  
Nominations



**29**  
Innovation  
Award  
Winners



# ISUW 2021: CONFERENCE GLIMPSES

## INAUGURAL SESSION

02 March 2021 | 11:30 - 13:30 (IST)



**Gauri Singh**  
Deputy Director-General, International Renewable Energy Agency (IRENA)



**Ajay Kaul**  
Head-Sales & Local Govt Amazon Web Services



**Ugo Astuto**  
European Union Ambassador to India



**Debasish U Banerjee**  
MD  
CESC Kolkata



**PR Kumar**  
CEO  
BSES Yamuna Power Ltd



**Praveer Sinha**  
CEO & MD  
The Tata Power Company Limited



**Amal Sinha**  
CEO  
BSES Rajdhani Power Ltd



**Rob Stephen**  
Former President  
CIGRE



**Yoshiro Kaku**  
Director - METI, Japan;  
Chief Representative - NEDO, India



**Upendra Tripathy**  
Director General,  
International Solar Alliance



**Richard Schomberg**  
IEC Ambassador and Chairman, IEC SES Committee and Vice President, EDF



**Nicholas Dunlop**  
Secretary General  
Climate Parliament



**N Venu**  
Managing Director,  
Hitachi ABB Power Grids India and South Asia



**Barry Gardiner**  
Member of Parliament,  
Brent North, House of Commons, United Kingdom



**Keisuke Sadamori**  
Energy Markets and Security Director,  
International Energy Agency



**Reji Kumar Pillai**  
President, ISGF  
Chairman, GSEF



**Reena Suri**  
Executive Director  
ISGF

ISUW 2021 Conference and Exhibition was inaugurated on 05th March 2021. The Dignitaries present at the inaugural ceremony were Richard Schomberg, IEC Ambassador and Chairman, IEC Smart Energy Systems Committee and Vice President, ED; Ajay Kaul, India State and Local Govt. Leader, Amazon Web Services; N Venu, Managing Director, Hitachi ABB Power Grids India and South Asia; Debasish U Banerjee, Managing Director, CESC, Kolkata; Amal Sinha, Chief Executive Officer, BSES Rajdhani Power Ltd; PR Kumar, Chief Executive Officer, BSES Yamuna Power Ltd; Praveer Sinha, Chief Executive Officer & Managing Director, Tata Power Company Ltd; Yoshiro Kaku, Chief Representative, NEDO- India; Rob Stephen, Former President, CIGRE; Keisuke Sadamori, Energy Markets and Security Director, International Energy Agency; Gauri Singh, Deputy Director-General, International Renewable Energy Agency; Ugo Astuto, European Union Ambassador to India; Nicholas Dunlop, Secretary General, Climate Parliament; Ashok Lavasa, Vice President, Asian Development Bank; Barry Gardiner, Member of Parliament, Brent North, House of Commons, United Kingdom; Upendra Tripathy, Director General, International Solar Alliance and Reji Kumar Pillai, President, ISGF and Chairman, GSEF.

ISUW 2021 offered an excellent platform for utility and government officials, regulators, experts from technology providers and academia for networking and experience sharing with their peers from around the globe. Over 564 delegates from Indian utilities, regulatory commissions and government departments participated to discuss on the latest developments, trends and technologies. The event was supported by Ministries of Power; New and Renewable Energy; Science and Technology; Environment, Forest and Climate Change; Jal Shakti; NITI Aayog; Housing and Urban Affairs; and institutions such as GBCI, FSR, TiE Delhi NCR, VJTI, MacArthur Foundation, ETSI, CEN-CENLEC, India CGD Forum, TERI, WWF, BOCI, PHD Chamber of Commerce, Natural Gas Society, Think SmartGrid, France, IEEE, CWC, AEEE, APUEA, CSEP, GERMI, IESA, IGEF, ICLEI, NIUA, SCGJ, CBIP, CIGRE and GSEF.

We are happy to announce that ISUW 2022 will be held in New Delhi from 01 - 05 March 2022. For Partnership, Exhibition and Participation queries, please write to us at [isuw@isuw.in](mailto:isuw@isuw.in). For more details, kindly visit [www.isuw.in](http://www.isuw.in).

## SESSION 1: INNOVATION IN UTILITIES DURING THE PANDEMIC

02 March 2021 | 14:00 - 16:00 (IST)



**Richard Schomberg**  
IEC Ambassador and  
Chairman, IEC SES  
Committee and Vice President, EDF  
(Moderator)



**Vinit Sikka**  
Business Head  
BSES Rajdhani  
Power Ltd



**Mark F McGranaghan**  
Vice President  
Electric Power  
Research Institute  
and EPRI Fellow



**Brajesh Kumar**  
Sr. Vice President -  
Business  
BSES Yamuna Power  
Ltd



**Ganesh Srinivasan**  
Chief Executive  
Officer, Tata Power  
Delhi Distribution Ltd



**Beni Suryadi**  
Manager  
Policy Research and  
Analytics, ASEAN  
Center for Energy



**Murali Krishna  
Gannamani**  
Managing Director  
and Chief Executive  
Officer, Fluentgrid Ltd



**Gerhard Gamperl**  
Director - Head of  
Strategy, Corporate  
Development and  
Sustainability,  
Verbund, Austria



**RP Singh**  
VP of Strategic  
Partnerships and  
Customer Success  
(APAC), Smart Energy  
Water (SEW)



**Leonid Lev**  
Senior Expert and  
Manager  
Israel Electric  
Company

## SESSION - 2: REGULATORY SUPPORT IN DIFFERENT COUNTRIES FOR REVIVAL OF UTILITIES

02 March 2021 | 16:00 - 18:00 (IST)



**Jean-Michael  
Glanchant**  
Director, Florence  
School of  
Regulation  
(Chair & Moderator)



**Chris Villarreal**  
President  
PLUGGED IN  
Strategies, USA



**RN Sen**  
Former  
Chairman  
WBERC



**Roberto  
Zangrandi**  
Secretary  
General  
E.DSO



**Dominique  
Jamme**  
Director General  
French Regulator  
for Energy



**Rahul Tongia**  
Senior Fellow  
CSEP and  
Founding  
Advisor, ISGF



**Abel Didier Tella**  
Director General  
Association of  
Power Utilities of  
Africa



**Luciano Martini**  
Chairman  
International  
Smart Grid  
Action Network

## Session 3: SMART METER ROLLOUT

03 March 2021 | 11:30 - 13:30 (IST)



**Anil Rawal**  
Managing Director and  
Chief Executive Officer  
IntelliSmart Infrastructure  
(Chair)



**Anant Venkateswaran**  
Director -  
Master Classes  
ISGF  
(Moderator)



**Sylvain  
Jouhanneau**  
Project Director  
- India Smart  
Metering, EDF  
WBERC



**Deepti Dutt**  
Head Strategic  
Initiatives - Public  
Sector  
Amazon Web  
Services



**Subhadip  
Raychaudhuri**  
HOD - Commercial  
TATA Power Delhi  
Distribution Limited



**Chandha Neupane**  
Project Manager  
Nepal Electricity  
Authority



**CN Ragupathi**  
Head - India  
Business  
Infosys



**Nabil Sahri**  
Vice President  
Sagemcom Energy  
and Telecom and  
G3-PLC Alliance



**Phil Beecher**  
President and CEO  
Wi-SUN Alliance



**Rahul Tongia**  
Senior Fellow  
CSEP and Founding  
Advisor  
ISGF



**Vasundhar Boddapati**  
Head - India  
Operations  
Exceleron Software



## SESSION - 4: ENERGY STORAGE SYSTEMS - BUSINESS MODELS AND REGULATIONS

03 March 2021 | 14:00 - 16:00 (IST)



**PC Maithani**  
Advisor  
MNRE, Govt of India  
(Chair)



**Rahul Walawalkar**  
Chairman  
IESA  
(Moderator)



**Ramaswamy Murugan**  
Puducherry University  
(Theme Presentation)



**Amy Rose**  
Member, Grid  
Systems Group,  
National Renewable  
Energy Laboratory



**Nileshe Kane**  
Additional GM  
TATA Power Delhi  
Distribution Limited



**Rashi Gupta**  
Founder and CEO  
Vision Mechatronics



**Shantanu Jaiswal**  
Bloomberg New  
Energy Finance



**Matthieu Craye**  
Senior Officer  
Directorate General  
Energy,  
European Union



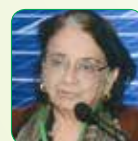
**Sarin Sundar**  
Office of CTO  
Applied Materials



**Mani Khurana**  
Senior Energy  
Specialist, World  
Bank



**Kondalarao Bavisetti**  
Hitachi ABB Power  
Grids



**Jyoti Parikh**  
Executive Director  
IRADE



**Patrick Clerens**  
Secretary General  
European Association  
for Storage of Energy  
(EASE)

## SESSION - 5: DISASTER (AND PANDEMIC) RESILIENT UTILITIES AND CITIES

03 March 2021 | 16:00 - 18:00 (IST)



**Sanjeev Ahluwalia**  
Advisor, Observer Research  
Foundation  
(Chair and Moderator)



**Umamaheshwaran Rajasekar**  
Chair  
NIUA, MoHUA



**Karuna Gopal**  
Founder President  
Foundation for  
Futuristic Cities



**Martin Hauske**  
Energy Segment  
Sales Leader,  
APAC, Nokia



**Akilur Rahman**  
Chief Technology  
Officer India Hitachi  
ABB Power Grids



**Andress Carvallo**  
Chief Executive  
Officer & Founder  
CMG, USA



**Ashwani Aggarwal**  
Vice President  
BSES Yamuna Power  
Ltd



**Mili Majumdar**  
Managing Director  
GBCI



**Ravikanth Giddalur**  
Vice President-  
Solutions Engineering  
Fluentgrid Limited

## SESSION 6: CYBER SECURITY FOR DIGITAL UTILITIES

04 March 2021 | 11:30 - 13:30 (IST)



**Sunandan Banerjee**  
Principal Consultant-  
Government & PSU,  
SonicWall



**Aamir Hussain**  
IT, TATA Power Delhi  
Distribution Limited



**Shaleen Khetarpaul**  
BSES Rajdhani  
Power Limited



**Faruk Kazi**  
Chair, ISGF WG on Digital  
Architecture and Cyber Security  
and Professor, VJTI, Mumbai  
(Moderator)



**Andrew Ginter**  
Vice President- Industrial  
Security  
Waterfall Security Solutions



**Elad Shaviv**  
Chief Executive Officer  
Israeli Smart Energy  
Association



**Vijayan SR**  
Hub Digitalization Lead –  
Grid Automation  
Hitachi ABB Power Grids



**Mandar Patil**  
Manager - Solutions  
Architect, Amazon Web  
Services



**Kishor Narang**  
Founder  
Narnix



**Lalit Kumar**  
General Manager-  
IT Security, BSES  
Yamuna Power Ltd

## SESSION 7: DISRUPTIVE TECHNOLOGIES AND INNOVATIONS FOR UTILITIES (PART - A) 04 March 2021 | 14:00 - 16:00 (IST)



**Amit Kumar Pandey**  
President  
Hanson Robotics  
(Chair, Moderator and  
Theme Presenter)



**Martin Hauske**  
Energy Segment Sales  
Leader - APAC, Nokia



**Ashutosh Natraj**  
Founder and CEO  
Vidrona, UK



**Abhishek Ranjan**  
VP System Operations,  
BSES Rajdhani  
Power Ltd



**Mukesh Dadhich**  
Asst VP– Sustainability &  
Cleantech  
BSES Yamuna Power  
Limited



**Stefan Engelhardt**  
VP- Industry  
Business Unit -  
Utilities, SAP



**Sainath Bandhakavi**  
Senior Solutions  
Architect - Utilities,  
Amazon Web Services



**S Samanta**  
Head - IT  
TATA Power Delhi  
Distribution Limited



**Jayanth Balaji**  
Application Engineer  
MathWorks



**Thomas Waggerhauser**  
HMS Industrial Networks/  
UL Group, Germany



**AP SINGH**  
CISO  
Uttar Pradesh Power  
Corporation Ltd



**David Coppalla**  
Business Developer  
and Project Manager  
European Space Agency

## SESSION - 8: NEW REVENUE OPPORTUNITIES FOR UTILITIES 04 March 2021 | 16:00 - 18:00 (IST)



**RP Singh**  
Chairman, UP Electricity  
Regulatory Commission  
(Chair)



**Reji Kumar Pillai**  
President, ISGF  
Chairman, GSEF  
(Moderator and Theme Presenter)



**Marc Boillot**  
Ambassador  
Global Smart Energy  
Federation



**Amit Mathur**  
Chief Risk Officer  
Indraprastha Gas Limited



**Ganesh Das**  
Head Innovation & R&D  
TATA Power Delhi Distribution Limited



**Rammohan Rayaprole**  
National Manager - EMS  
CMS Computers Ltd



**Abhishek Ranjan**  
VP System Operations,  
BSES Rajdhani Power Ltd



## SESSION 9: Disruptive Technologies And Innovations For Utilities (PART: B)

05 March 2021 | 11:30 - 13:30 (IST)



**Prabir Neogi**

Chief Advisor, Corporate Affairs, CESC Limited  
(Chair & Moderator)



**Greg Kushnir**  
CEO  
EMROD



**Adarsh Nagarajan**  
National Renewable  
Energy Laboratory



**Shishir Shekhar**  
MathWorks



**Jitendra Nalwaya**

Vice President  
BSES Yamuna Power Ltd



**Amitava Ghosh**  
Vice President  
Bidgely



**Akilur Rahman**  
Chief Technology Officer  
Hitachi ABB Power Grids



**Sumit Gupta**  
CEO  
AssetPlus Consulting

## SPECIAL PLENARY 1: CUSTOMER RIGHTS PROTECTION ORDER BY MINISTRY OF POWER - ACTION BY UTILITIES AND REGULATORS

02 March 2021 | 19:00 - 21:00 (IST)



**Ravi Seethapathy**

Chair of ISGF Working Group on RE and  
Microgrid; and Chairman, Biosirus, Inc, Canada  
(Moderator)



**Neil Chatterjee**

Commissioner  
Federal Energy Regulatory  
Commission, USA



**Mohan Gupta**

Vice President -  
Regional Industry -  
Utilities, SAP



**Anjali Chandra**

Member  
Punjab Electricity Regulatory  
Commission



**MS Kele**

Managing Director, Tripura State  
Electricity Corporation Ltd



**Anand Kumar**

Chairman, Gujarat Electricity  
Regulatory Commission



**Timothy Dean Self**

Vice President  
Altec



**Sanjay Banga**

President, T&D  
The Tata Power  
Company Limited



## SPECIAL PLENARY 2: GRID INTEGRATED VEHICLES (GIV) AND STANDARDS FOR GIVs

04 March 2021 | 19:00 - 21:00 (IST)



**K R Jyothishil**  
Principal Secretary  
Transport, Kerala  
(Chair)



**Ravi Sheethapathi**  
Chair of ISGF Working Group  
on RE and Microgrid; and  
Chairman Biosirus, Inc, Canada  
(Moderator)



**Rodney McGee**  
Chief Engineer, University of  
Delaware, USA and Committee Chair  
Society for Automotive Engineers  
(Theme Presenter)



**Rajith Gadh**  
Director- Smart Energy  
Research Centre  
UCLA, USA



**Shashi Verma**  
Chief Technology  
Officer, Transport for  
London, UK



**Marc Petit**  
Professor  
Centrale Supélec, France



**Lonneke Driessen-Mutters**  
Executive Director  
Open Charge Alliance



**Makoto Dave Yoshida**  
Secretary General  
CHAdEMO Association



**Sanjay Bangia**  
Head, EV and Home  
Automation Division,  
The Tata Power Company Limited



**Ashok Sarkar**  
Senior Energy Specialist  
World Bank

## ROUNDTABLE - 1: INTERCONNECTION OF REGIONAL GRIDS IN ASIA

02 March 2021 | 15.00 - 18.00 (IST)



**Reji Kumar Pillai**  
President, ISGF  
Chairman, GSEF  
(Welcome Address)



**SL Narasimhan**  
Director General, Centre for Contemporary  
Chinese Studies (CCCCS) and Member,  
National Security Advisory Board, GoI  
(Special Address)



**Mrityunjay Kumar Narayan**  
Joint Secretary  
Ministry of Power (MoP)  
(Special Address)



**Upendra Tripathy**  
Director General  
International Solar Alliance  
(Special Address)

### PANEL 1: RECAP OF THE IDENTIFIED INTERCONNECTIONS BETWEEN GCC GRID - SAARC GRID - ASEAN GRID



**Pankaj Batra**  
Project Director - IRADe,  
Former Chairman - Central Electricity Authority  
(CEA) (Theme Presentation)



**Abhishek Shivakumar**  
Senior Researcher,  
Climate Parliament, UK

### PANEL 2: EUROPEAN EXPERIENCE OF INTERCONNECTION OF REGIONAL GRIDS



**Arnold Weiss**  
Head of Vienna Office  
EPEX SPOT



**Matthieu Craye**  
Senior Officer  
Directorate General Energy,  
European Union



**Thomas Bregeon**  
Team Lead  
Directorate General  
Energy, European Union



**Elaine O'Connell**  
Policy Expert – Electricity  
Markets,  
Directorate General Energy,  
European Union

### PANEL 3: ACTION PLAN FOR FEASIBILITY STUDY OF IDENTIFIED INTERCONNECTIONS AND MARKET DESIGN FOR INTERCONNECTED POWER MARKETS



**Pankaj Batra**  
Project Director - IRADe,  
Former Chairman - Central  
Electricity Authority (CEA)  
(Moderator)



**KVS Baba**  
Chairman and MD  
POSOCO



**Akilur Rahman**  
CTO  
Hitachi ABB Power  
Grids



**Beni Suryadi**  
Manager  
Policy Research and  
Analytics, ASEAN Center for Energy



**Wissarut Yuttachai**  
Chief of Telecommunication and  
Transmission System Business  
Development,  
Electricity Generating Authority of  
Thailand



**Matthew David Wittenstein**  
Chief - Energy Connectivity  
Section  
Energy Division  
UNESCAP



**SK Soonee**  
Advisor  
POSOCO



**Yoshiro Kaku**  
Director – METI, Japan;  
Chief Representative -  
NEDO, India

### ROUNDTABLE - 2: ELECTRIC COOKING 03 March 2021 | 11:30 - 13:30 (IST)



**Reji Kumar Pillai**  
President, ISGF  
Chairman, GSEF  
(Welcome Address)



**Simon Batchelor**  
Modern Energy Cooking  
Services  
(Theme Presentation)



**Mohua Mukherjee**  
Ex-World Bank and Advisor  
– ISGF  
(Moderator)



**Pareekshit Bharadwaj**  
Head-Operations  
BSES Yamuna Power Ltd



**Sameer Pandita**  
Director, Bureau of Energy  
Efficiency



**Vimal Kumar**  
Modern Energy Cooking Services



**Depanwita Ray**  
AGM, Commercial - CEM  
TATA Power Delhi Distribution Limited

### ROUNDTABLE - 3: DIGITAL ARCHITECTURE AND SYSTEM INTERACTION FOR SMART METERING 03 MARCH 2021 | 14:00 - 17:00 (IST)



**Sainath Bandhakavi**  
Senior Solutions Architect – Utilities  
Amazon Web Services  
(Theme Presentation)



**Deepti Dutt**  
Head Strategic Initiatives – Public Sector  
Amazon Web Services  
(Moderator)





**Arun Mishra**  
Director  
National Smart Grid  
Mission



**Santhosh Nair**  
Director of Energy  
Segment-Asia,  
Nokia



**Sanjeev Rana**  
AGM - IT Infra &  
Data Communication  
TATA Power Delhi  
Distribution Limited



**Vikas Kashyap**  
Advisor  
ISGF



**AP Singh**  
CISO  
Uttar Pradesh Power  
Corporation Ltd



**Gautam Kumar**  
Chief Technology  
Officer  
IntelliSmart  
Infrastructure Pvt Ltd



**SL Karwadiya**  
Executive Director  
MP Pachim Kshetra  
Vidyut Vitran Co Ltd



**Antoine Trobois**  
Smart Grid Project  
Manager, ENEDIS



**Anil D'souza**  
General Manager  
(ICT&MIS)  
BESCOM



**Muralishankar  
Gopalakrishnan**  
VP-Solutions &  
Product Engg.  
Fluentgrid



**Ajay Devnath**  
IT Project Director  
L&T



**Abhishek Sarkar**  
Manager  
KPMG

## ROUNDTABLE 4: URABAN AIR MOBILITY SYSTEMS (UAM) 04 March 2021 | 11:30 - 13.30 (IST)



**John CAVOLOWSKY**  
Director, Transformation Aeronautics  
Concepts Program (TACP), NASA  
Aeronautics Research Mission  
Directorate (ARMD), USA  
(Chair)



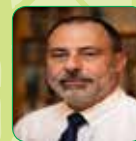
**Reji Kumar Pillai**  
President, ISGF  
Chairman, GSEF



**Christian Eschmann**  
Acting Head of Lab  
German Aerospace  
Center



**OD Naidu**  
Global R&D -  
APTSPLU  
Hitachi ABB Power  
Grids



**Andrew Hatley**  
U-space ConOps  
Development,  
EUROCONTROL



**Kanika Tekriwal**  
Chief Executive  
Officer and Co-  
Founder  
JetSetGo



**Kanishka Agiwal**  
Head - Service Lines,  
India/South Asia,  
WWPS  
Amazon Internet  
Services Private  
Limited



**Mehmet Emre  
YAZICI**  
Independent  
Consultant



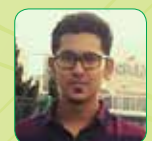
**Rohan Verma**  
Chief Executive  
Officer and  
Executive Director,  
MapMyIndia



**Kanika Kalra**  
Urban Transport  
Expert & Acting  
Director - KMC  
Institute of Urban  
Transport



**Anil Chandaliya**  
CEO  
Passenger Drone  
Research Pvt Ltd



**Kowtham Raj**  
Young Professional  
NITI Aayog, GoI

## ROUNDTABLE - 5: BLOCKCHAIN APPLICATIONS IN ENERGY SECTOR

04 MARCH 2021 | 14:00 - 17:30 (IST)



**RP Singh**  
Chairman  
UPERC  
(Chair)



**Reena Suri**  
Executive Director  
India Smart Grid Forum  
(Moderator)



**Jitendra Nalwaya**  
Head - System  
Operation &  
Sustainability,  
BSES Yamuna Power  
Limited



**Ravi Chandrasekaran**  
Practice Partner  
Blockchain  
Wipro



**Ana Trbovich**  
Co-Founder  
Grid Singularity &  
Energy Web Foundation



**Lalit Kumar Wasan**  
Head – Power System  
Control  
Tata Power Delhi  
Distribution Limited



**Vinod Tiwari**  
Global Head of BD and  
Sales  
Power Ledger



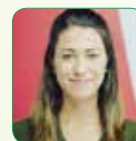
**Amanda Ahl**  
Digital Industry  
Analyst  
BloombergNEF



**Oriol Pujaldevall**  
Head of Business  
Development  
Energy Web Foundation



**Mohua Mukherjee**  
Ex – World Bank and  
Advisor - ISGF



**Vaska Dimitrova**  
Energy Manager –  
TSO Markets  
Austrian Power  
Grid

## 10<sup>th</sup> EU - INDIA SMART GRID WORKSHOP (PART A)

02 MARCH 2021 | 13:30 - 15:00 (IST)



**Reji Kumar Pillai**  
President, ISGF  
Chairman, GSEF  
(Welcome Address)



**PK Pujari**  
Chairman  
CERC  
(Inaugural Address)



**HE Ugo Astuto**  
European Union  
Ambassador to India  
(Inaugural Address)



**RP Singh**  
Chairman  
UPERC



**Swetha Bhagwat**  
Head of FSR Global,  
Florence School of  
Regulation



**Jean-Michel Glachant**  
Director  
Florence School of  
Regulation



**Matthieu Craye**  
Senior Officer,  
Directorate General  
Energy,  
European Union



**Pradyumna Bhagwat**  
Global Advisor  
Florence School of  
Regulation  
(Moderator)



**Rajesh K Mediratta**  
Director-Strategy and  
Regulatory Affairs  
Indian Energy  
Exchange (IEX)



**Elaine O'Connell**  
Policy Expert –  
Electricity Markets,  
Directorate General  
Energy, European  
Union



**Matthis Brinkhaus**  
Energy Brainpool



**Markus Benjamin  
Janitzek**  
Advisor  
Danish Energy  
Agency



## 10<sup>th</sup> EU - INDIA SMART GRID WORKSHOP (PART B)

03 MARCH 2021 | 14:00 - 17:00 (IST)



**Edwin Koekkoek**  
Counsellor, Energy and  
Climate Action  
Delegation of European  
Union to India  
(Welcome Address)



**Reji Kumar Pillai**  
President, ISGF  
Chairman, GSEF  
(Welcome  
Address)



**Swetha Bhagwat**  
Head of FSR Global,  
Florence School of  
Regulation  
(Theme  
Presentation)



**Donal Cannon**  
Representative  
in South Asia,  
European  
Investment Bank



**Pierre-Jacques  
LE QUELLEC**  
Project  
Coordinator  
Enedis



**Pradyumna  
Bhagwat**  
Global Advisor  
Florence School  
of Regulation



**Anoop Singh**  
Professor  
IIT, Kanpur



**Thomas N  
Mikkelsen**  
CEO & Founder  
GECO Global



**Matthieu Craye**  
Senior Officer,  
Directorate  
General Energy,  
European Union



**Vikram  
Gandotra**  
Head of Mktg &  
Strategy, Energy  
Siemens



**Tomas Gomez**  
Professor  
Universidad  
Pontificia  
Comillas, Spain



**Nikos  
Hatzigiorgiou**  
Professor  
National Technical  
University of  
Athens and Re-  
Empower



**Mayank Sharma**  
CEN - CENELEC



**Shivani Sharma**  
Principal  
Technical  
Consultant Power  
Consulting,  
Hitachi ABB  
Power Grids



**Croce  
Vincenzoe**  
Dreams



**Bonnie Murphy**  
Behavioural  
Science  
Strategist,  
Geco Global and  
Benefice

## 7<sup>th</sup> US - INDIA SMART GRID WORKSHOP

03 March 2021 | 18:30 - 21:30 (IST)

### PANEL 1: DIGITALISATION OF UTILITY INFRASTRUCTURE



**Aileen Nandi**  
Minister Counsellor for  
Commercial Affairs  
Embassy of USA, India



**Alexander Slater**  
Deputy MD for India  
The US - India  
Business Council



**Arun Mishra**  
Director  
National Smart  
Grid Mission



**Ghanshyam Prasad**  
Joint Secretary  
Ministry of Power, GoI



**Anant  
Venkateswaran**  
Director-Master  
Classes  
ISGF



**Vinay Jammu**  
VP Physical-Digital  
Technologies  
GE Digital



**Ashish Aneja**  
Digital Leader  
Suez Water Technologies



**Anand Sirohi**  
Director - Key Accounts  
& Large Projects  
Trimble India



**Rishi Goyal**  
General Manager  
BSES Rajdhani  
Power Ltd



**Hasit Kaji**  
Chief- Digital and  
Information Officer  
The Tata Power  
Company Limited

## PANEL 2: SMART TECHNOLOGIES FOR A CLEAN ENERGY TRANSITION



**Andrew Light**

Acting Assistant Secretary  
International Affairs, DOE,  
USA



**David Palchak**

National Renewable Energy  
Laboratory



**Reshma Singh**

Lawrence Berkeley National  
Laboratory



**Nikit Abhyankar**

Lawrence Berkeley National  
Laboratory



**Noel Schulz**

Washington State  
University



**Anurag Srivastava**

Washington State  
University



**Suresh Srivastava**

IIT Kanpur



**Elena Thomas-Kerr**

Sr Advisor International Affairs  
DOE, USA



**Grish Ghatikar**

Lead, ICT Program  
EPRI



**OP Agarwal**

CEO  
WRI, India

## WORKSHOP ON 5G FOR SMART UTILITIES AND SMART CITIES

03 March 2021 | 11:00 - 13:00 (IST)



**Reji Kumar Pillai**  
President, ISGF  
Chairman, GSEF



**Satish Jamadagni**  
Chairman - TSDSI;  
Vice President -  
Reliance JIO



**Sachin Chaudhari**  
Asst Professor  
IIIT Hyderabad



**Sharad Arora**  
Vice Chairman  
TSDSI



**Kiran Kuchi**  
Professor  
IIT Hyderabad



**Subhas Mandal**  
Governing Council  
Member - TSDSI



**Amarjeet Kumr**  
CEO  
Shrama  
Technologies  
Pvt Ltd



**Hem Thukral**  
Smart Grid Expert  
Ernst & Young (EY)

## WORKSHOP ON DISTRICT COOLING SYSTEM

04 March 2021 | 11:00 - 13:30 (IST)

## PANEL 1: POLICY AND REGULATIONS AND IMPLEMENTATION PLAN



**Abhay Bakre**  
Director  
General  
Bureau  
of Energy  
Efficiency  
(Inaugural  
Address)



**Martin Scheffler**  
Co-Founder  
Auroville  
Consulting  
(Moderator)



**Laxmi Rao**  
Senior  
Director  
International  
District  
Energy  
Association,  
USA



**Girja Shankar  
Charan**  
General  
Manager  
EESL



**Dimitry  
Bochkalov**  
Senior  
Director- Global  
Business  
Development,  
Danfoss



**Sudheer Perla**  
Country Head  
Tabreed



**Mikael  
Jakobsson**  
Executive  
Director  
APUEA



**Rahul Agnihotri**  
Coordinator,  
District Energy  
Initiatives South  
Asia, UNEP



**Philippe Hamilton  
Reid**  
Global Business  
Development  
Manager for District  
Heating & Cooling  
Systems, Tractebel  
Engineering SA



## PANEL 2: TECHNOLOGY AND BUSINESS MODELS



**Rajeev Sharma**  
Vice President  
GIFT City  
(Chair)



**Peter Lundberg**  
Head of  
Operations  
APUEA  
(Moderator)



**Teruhisa Oi**  
Principal  
Energy  
Specialist  
ADB



**Ganesh Das**  
Head Innovation  
& R&D  
TATA Power  
Delhi Distribution  
Limited



**Dhiraj Wadhwa**  
Director  
Carrier India



**Laxmi Rao**  
Senior  
Director,  
International  
District Energy  
Association,  
USA



**Jakob Bjerregaard**  
Partner  
Devcco



**Shubhasish Dey**  
Director  
Climate Policy  
Shakti  
Foundation



**Prameet Gupta**  
BD - Associate  
Tabreed

## JOINT WORKSHOP OF DEPARTMENT OF SCIENCE & TECHNOLOGY, GOVT OF INDIA AND SWEDISH ENERGY AGENCY 04 March 2021 | 14:30 - 17:30 (IST)



**Reji Kumar Pillai**  
President, ISGF  
Chairman, GSEF



**Ashutosh Shrama**  
Secretary  
Department  
of Science &  
Technology



**Gautam S Bhattacharya**  
Deputy Head of  
Mission  
Embassy of  
Sweden



**Robert Andren**  
Director General  
Swedish Energy  
Agency



**Sivaji Chadaram**  
Scientist  
F-International  
Cooperation  
Department  
of Science &  
Technology



**Sanjai Kumar**  
Scientist - 'D'  
Department  
of Science &  
Technology



**Fredrik Brändström**  
Research  
Program  
Manager  
Swedish Energy  
Agency



**Pawan Tahlani**  
Head of  
Sustainability  
and Climate  
Change  
Business  
Sweden, South  
Asia



**Ludvig Lindström**  
Country  
Manager - India,  
Swedish Energy  
Agency

## WORKSHOP ON LIVE LINE MAINTAENANCE IN UTILITIES 05 March 2021 | 10:00 - 12:30 (IST)



**Reji Kumar Pillai**  
President, ISGF  
Chairman, GSEF  
(Chair &  
Moderator)



**Naresh Sardana**  
Member  
Haryana Electricity  
Regulatory Commission



**Timothy Dean Self**  
Vice President  
Altec



**Hare Ram Panday**  
Director Project  
BSTCL, Bihar



**B B Mehta**  
Director (SLDC)  
OPTCL, Odisha



**Venu Babu**  
Director, Hot Line  
Training Center  
NPTI, Bangalore



**Santanu Sen**  
General Manager  
(Planning)  
CESC Limited



**Pradeep Lohani**  
Vice President  
BSES Yamuna  
Power Ltd



**Krishnamurthy**  
BESCOM  
Bangalore



**Maneesh Arora**  
BSES Rajdhani  
Power Ltd

## SEMINAR ON SMART WATER DISTRIBUTION

03 March 2021 | 11:30 - 14:30 (IST)



**Reji Kumar Pillai**  
President, ISGF  
Chairman, GSEF



**A Murlidharan**  
Deputy Adviser Department of  
Drinking Water and Sanitation  
Ministry of Jal Shakti



**Jagdish Kumar  
Arora**  
OSD and Nodal  
Officer (Water)  
Delhi Jal Board



**SK Goyal**  
Sr. Principal Scientist  
& Head  
NEERI



**Neville Bhasin**  
Business Development  
Manager  
Forbes Marshall



**Ajay Pradhan**  
President & CEO  
Cetus Consulting  
Solution Services



**P Ladkat**  
Joint City Engineer  
Pimpri-Chinchwad  
Municipal Corporation



**Vaibhav Chaturvedi**  
Fellow  
CEEW



**Sourav Daspatnaik**  
Managing Director  
Swach Environment  
Pvt Ltd.



**George Hunt**  
Chief Strategy  
Officer (CSO)  
Smart Energy  
Water



**Dherminder Mohan**  
Regional Manager- North,  
Forbes Marshall



**Sanjoy Roy**  
Chief Executive  
Officer  
Orange City Water  
Nagpur

## IEC – IEEE WORLD SMART ENERGY STANDARDIZATION COORDINATION WORKSHOP

03 MARCH 2021 | 14:00 - 17:30 (IST)

### PANEL 1: RENEWABLE ENERGY INTEGRATION



**Reji Kumar Pillai**  
President, ISGF  
Chairman, GSEF



**Kishore Narang**  
Founder  
Narnix



**Sri Chandra**  
Sr Director, IEEE



**Jason Allnutt**  
IEEE SA



**Richard Schomberg**  
IEC Ambassador and  
Chairman, IEC SES  
Committee and Vice  
President, EDF

### PANEL 2: SMART ENERGY INTERFACE MANAGEMENT



**Richard Schomberg**  
IEC Ambassador and  
Chairman, IEC SES  
Committee and Vice  
President, EDF



**Robby Simpson**  
GE Grid Solutions



**Laurent Guise**  
IEC



**Mayank Sharma**  
CEN/CENELEC



## SEMINAR ON SMART CITY GAS DISTRIBUTION AND GREEN HYDROGEN

04 March 2021 | 14:00 - 19:00 (IST)



**Reji Kumar Pillai**  
President, ISGF  
Chairman, GSEF  
(Welcome Address)



**Tarun Kapoor**  
Secretary  
MoPNG, Govt of India  
(Inaugural Address)



**Vivek Joshi**  
Executive Director  
Natural Gas Society  
(Vote of Thanks)



**G Chakraborty**  
Executive Director (CGD)  
GAIL India Ltd



**M V Ravi Someswarudu**  
Chief Executive Officer  
GAIL Gas Limited



**Suresh Mangalani**  
Chief Executive Officer  
Adani Gas Limited



**AK Jana**  
Managing Director  
Indraprastha Gas Limited



**Suresh Mangalani**  
Chief Executive Officer  
Adani Gas Limited

### PANEL 1: POST COVID TRANSFORMATION IN CGD BUSINESS



**Rajiv Sikka**  
Chief Executive Officer  
Indian Oil - Adani Gas Pvt Ltd  
(Chair)



**Manjeet Singh**  
Sr Vice President  
Indraprastha Gas Limited



**Murali Srinivasan**  
Sr Vice President  
Mahanagar Gas Limited



**Sumit Gupta**  
Chief Executive Officer  
AssetPlus Consulting



**Rajesh K Mediratta**  
Director-Strategy and  
Regulatory Affairs  
Indian Energy Exchange (IEX)

### PANEL 2: EFFICIENT OPERATION, MAINTENANCE AND DIGITALIZATION



**G Chakraborty**  
Executive Director (CGD)  
GAIL India Limited  
(Chair)



**Tulika Pradhan**  
Cloud Advisor  
Public Sector  
Amazon Web Services India



**Raman Srivastava**  
Chief General Manager  
Indraprastha Gas Limited

### PANEL 3: GREEN HYDROGEN ROADMAP FOR INDIA



**PC Maithani**  
Advisor  
Ministry of New and Renewable Energy  
(Chair)



**Gauri Singh**  
Deputy Director-General  
International Renewable Energy Agency



**KR Jyotilal**  
Principal Secretary  
Transport, Kerala



**Anand Vasudevan**  
Founder & CEO  
Spotimyz Energy, USA



**Sanjeev Gupta**  
Chairman, Energy Committee (RE&AE)  
PHD Chamber of Commerce

## SUPPORTING MINISTRIES



विद्युत विभाग  
Ministry of Power  
Government of India



नवीन एवं  
विविध ऊर्जा विभाग  
Ministry of New & Renewable Energy  
Government of India



पर्यावरण, वन  
और जल विभाग  
Ministry of Environment  
Forest and Climate Change  
Government of India



जल शक्ति विभाग  
Ministry of Jal Shakti  
Government of India



आवास और  
नगरीय मामलों  
विभाग  
Ministry of Housing and  
Urban Affairs  
Government of India



विज्ञान और  
प्रौद्योगिकी विभाग  
Ministry of Science  
& Technology  
Government of India



नीति आयोग  
National Institution for  
Transforming India

## ISUW 2021: KEY PARTNERS

### Powered by



### Host Utilities



### Co-Host Utilities



### Partner Utilities

### Platinum Partners

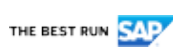


### ISGF Innovation Awards Partner

### Gold Partner



### Session Partner



### Technology Partner



### Silver Partners



### Country Partners



### Bronze Partners



## ISUW 2021: EXHIBITORS





## ISUW 2021: SUPPORTING ORGANISATIONS



## ISUW 2021: MEDIA & MARKETING PARTNER



## ISUW 2021: SUPPORTING MEDIA PARTNERS



## ISUW 2021: THEME AND SESSION PARTNERS



# GLIMPSES OF 3D ISUW CONFERENCE AND EXHIBITION



Main Entrance



Main Lobby



Conference Halls Lobby



Networking Lounge



Speakers Lounge



Media Center



Workshop Hall



Seminar Hall





Plenary Hall



Bird's Eye View of Exhibition Hall



Bird's Eye View of EU Pavilion



Roundtable Hall

## Exhibition Booths





# GLIMPSES OF ISGF INNOVATION AWARDS 2021

## Best Smart Grid Project in India by Utility



BSES Yamuna Power Limited  
**Diamond Award**



BSES Rajdhani Power Limited  
**Gold Award**

## Best Smart Grid Project in India by Industry



Vidrona Limited  
**Diamond Award**



CMS Computers Limited  
**Certificate of Merit**

## Supporting Measures for Rooftop by DISCOM



Paschim Gujarat Viji Company Limited  
**Gold Award**



BSES Rajdhani Power Limited  
**Gold Award**

## Innovative EV & EVSE Rollout



The Tata Power Company Limited  
**Gold Award**



## Adoption of Emerging Technology by a Utility



Uttar Pradesh Power Corporation Limited  
**Diamond Award**



Assam Power Distribution Company Limited  
**Platinum Award**



BSES Rajdhani Power Limited  
**Gold Award**

## Smart Start-up of the Year



BycyShare Technologies Pvt Ltd  
**Diamond Award**



Sustain Impact  
**Platinum Award**

## Smart Incubator of the Year



VJTI Technology Business Incubator  
**Diamond Award**

## Best Survival Effort, Business Continuity and Innovation during Crisis Periods (COVID-19/ Natural Calamity) – Utility



Power System Operation Corporation Ltd  
**Diamond Award**



Tripura State Electricity Corporation Limited  
**Gold Award**



## Best Business Growth and Innovation amongst previous years ISGF Innovation Award Winners



Tata Power Delhi Distribution Limited  
**Certificate of Merit**



The Tata Power Company Limited  
**Platinum Award**

## Smart Technology: Electricity - Distribution



BluWave-ai  
**Diamond Award**



BSES Yamuna Power Limited  
**Gold Award**



Tata Power Delhi Distribution Limited  
**Certificate of Merit**



Tata Power Delhi Distribution Limited  
**Certificate of Merit**



Tata Power Delhi Distribution Limited  
**Diamond Award**

## Smart Technology: Electricity - RE Integration



Bangalore Electricity Supply Company Limited  
**Diamond Award**



Climate Connect  
**Gold Award**



## Smart Technology: Gas Distribution



Smart Energy Water  
**Diamond Award**



AssetPlus Consulting  
**Platinum Award**

## ISGF President's Award



Energy Efficiency Services Limited



Indraprastha Gas Limited

## VALEDICTORY SESSION



## REJUVENATION SESSIONS

Virtual Yoga Sessions  
03, 04 & 05 March 2021



Talk by Devdutt Pattanaik  
04 March 2021



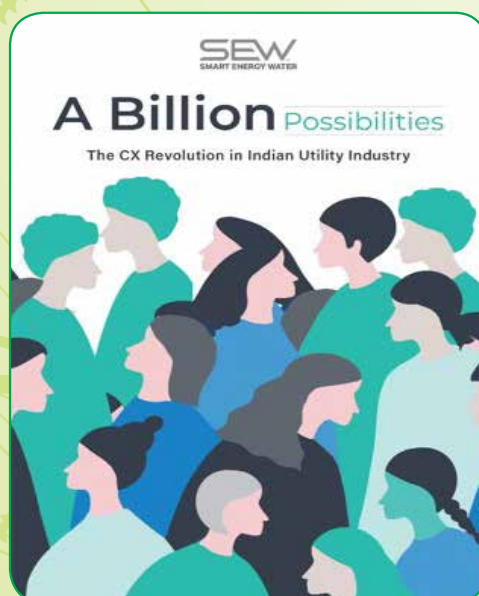
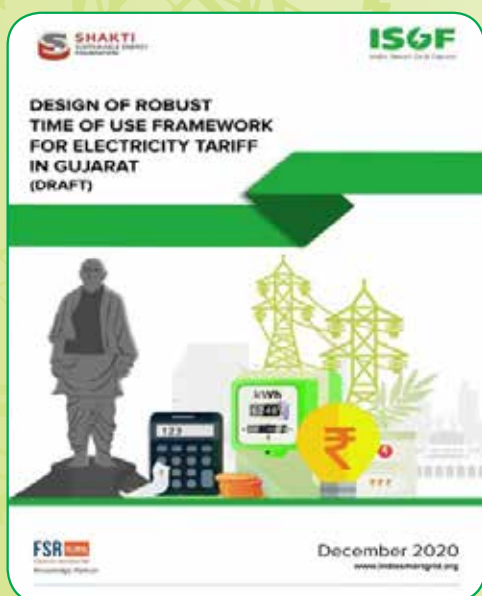
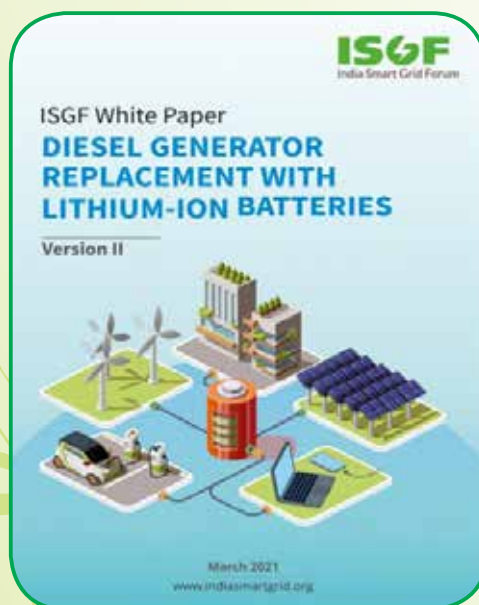
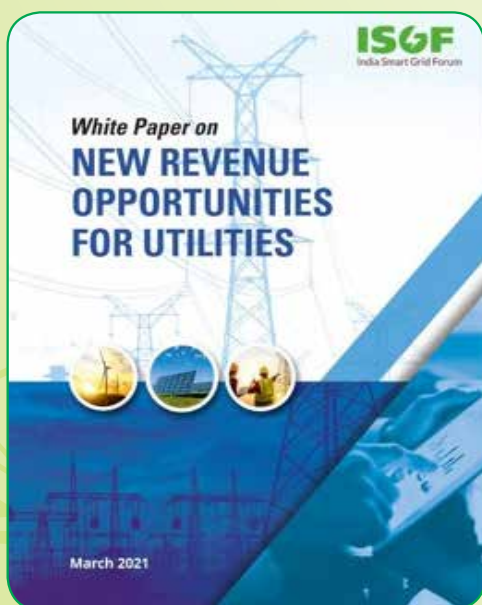
Live Band  
05 March 2021



## Live Performances | 02 March 2021



## REPORTS RELEASED AT ISUW 2021





## ISUW 2021 Technical Paper Presentations - Top 25

### SELECTED FOR PRESENTATION AND PUBLICATION IN SPRINGER JOURNAL

S. No*	Title	Name	Organization
3	Real Time Monitoring of OT Devices through INMS	Aamir Hussain Khan	Tata Power Delhi Distribution Ltd
4	Combined Billing and Customer Care Systems for all Utilities in a Smart City	Amit Jindal	PwC India Pvt Ltd
9	Demystifying Digitally Empowered Prosumer Transformation Opportunities for Utilities in Energy Value Ecosystem	Anindya Pradhan	Tata Consultancy Services
11	Smart Solutions based on Smart Metering Data to Improve Distribution Network Operations and Customer Management in France	Antoine Trobois	ENEDIS
14	Energy Storage	BB Mehta	Odisha Power Transmission Corporation Ltd
21	Vehicle to Grid Integration and Strategies for Managed EV charging	Chandana Sasidharan	Alliance for an Energy Efficient Economy
25	Development of Smart Data Analytics Module enabling access to Electric Vehicle Usage in Smart City	Surekha Deshmukh	PVG COET
26	Market Clearing Price (MCP) in Microgrid Power generation Scenario	Arup Sinha	Virtuoso Consulting
28	Hosting Capacity Analysis and Managed Charging Solutions for Electric Vehicle Grid Integration	Shivani Sharma	Hitachi ABB Power Grids
33	Feasibility analysis to integrate EVs and RTPV at distribution voltage level	Harikrishna KV	Center for Study of Science Technology and Policy
34	Cyber Threat Protection Mechanism for Smart Microgrids	Himanshu Nayyar	Tata Power Delhi Distribution Ltd
36	Communicable and Remotely Operable 11KV Air Brake Switch with Earth Blade and FPI Facility A Smart Switch Operation	Jignesh Borisgar	GPRD CELL, GUVNL, IIT Gandhinagar
38	Implementation of Robotics & Drones in Power Distribution	Kaushal Pandya	The Tata Power Company Ltd
43	Cyber Physical Security of the Critical Infrastructure	ML Sachdeva NS Sodha	Powergrid
58	Experience of Battery Energy Storage System by TATA Power DDL	Nilesh Kane	Tata Power Delhi Distribution Ltd
60	Paperless & Contactless Operations in Distribution Services	Parmanand P Tendulkar	The Tata Power Company Ltd
62	IElectrix Project System integration tests	Pierre-Jacques Le Quellec	ENEDIS
74	Enabling Smart Energy Communities through PEER Strategies	S R Sanjay Kumar	GBCI India Pvt Ltd
76	Distributed Ledger Technology based Common GIS Map for all Domains in a Smart City	Sanjay Dhonde	Orange Current Technologies Pvt Ltd
83	Extremely Severe Cyclonic Storm Fani: Impact on Power System Operation in Indian Sub-Continent	Shiban Kanti Bala	Odisha Power Transmission Corporation Ltd
89	Flexibility from Hydro Energy with case study on 9PM9Minute event	Surendra Kumar Mishra	NHPC Ltd
91	Artificial Intelligence (AI) Powered Customer Care	Tanmay Dalal	Accenture Technology Ltd
94	Optimizing Electric Vehicle Charging with Charging Data Analytics	Tayyibah Khanam	Aligarh Muslim University
96	Smart LT Network Equipment: Introduction of Smart, Compact & Aesthetic LT Feeder Pillars	Vikas Kaul	The Tata Power Company Ltd
99	Asset Performance Management using Machine learning	Vinit Mishra	Ernst & Young LLP

\* As per serial number allotted during abstract shortlisting (in alphabetical order)

Another 25 Technical Papers were selected for Publication (only) in Springer Journal. List of selected papers can be viewed at following link: <https://www.isgw.in/technical-paper-isuw-2021/>

## ANNOUNCING ISUW 2022



India  
**SMART UTILITY**  
Week 2022

**01 - 05 March 2022**

📍 New Delhi

**ISUW 2022**  
International  
Conference and  
Exhibition on Smart  
Energy and Smart  
Mobility for Smart Cities

1<sup>st</sup> March 2022  
Tuesday

Master Classes

2<sup>nd</sup> March 2022  
Wednesday

Conference &  
Exhibition

3<sup>rd</sup> March 2022  
Thursday

Conference &  
Exhibition

4<sup>th</sup> March 2022  
Friday

Conference &  
Exhibition

5<sup>th</sup> March 2022  
Saturday

Technical  
Tours

ISGF INNOVATION AWARDS: 4<sup>th</sup> March 2022

[www.isuw.in](http://www.isuw.in)

Organiser

**ISGF**  
India Smart Grid Forum

## TEAM ISGF

