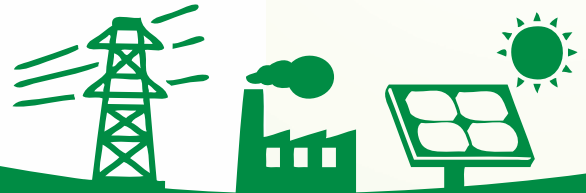




SMART GRID Bulletin

March 2020



India Smart Utility Week 2020 One More Successful Edition

The 6th edition of India Smart Utility Week, the international Conference and Exhibition held in New Delhi had 1570 participants and 269 Eminent Speakers from 23 Countries



ISGF's flagship annual event, the India Smart Utility Week (ISUW), an International Conference and Exhibition on Smart Energy and Smart Mobility for Smart Cities, was held from 03 – 07 March 2020 in New Delhi. ISUW 2020 was attended by 1570 participants from 23 countries. Key themes of ISUW 2020 were: (i) Towards a Net Zero Energy Power Sector and (ii) Towards a Carbon Neutral Transport Sector. The event had 13 Thematic Sessions, 4 Special Plenaries, 5 Bi-lateral Workshops, 7 Parallel Events, 4 Tracks of Master Classes and 2 Technical Tours. In total 269 eminent experts spoke in the event.

ISUW 2020 Conference and Exhibition was inaugurated on 4th March 2020. The Dignitaries present at the inaugural ceremony were Sanjeev Nandan Sahai, Secretary, Ministry of Power, Government of India (GoI); Ashutosh Sharma, Secretary, Department of Science and Technology, GoI; Ugo Astuto, EU Ambassador to India; Barry Gardiner, Member of Parliament for Brent North, House of Commons and Shadow Secretary of State for International Trade and Climate Change, UK Neil Chatterjee, Chairman, Federal Energy Regulatory Commission, USA; Debasish U Banerjee, Managing Director, CESC Kolkata; Stephen Dutnall, Technical Officer and SyC SE Secretary, IEC; N Venu, Managing Director, ABB POWERGRID India; Praveer Sinha, CEO and Managing Director, Tata Power Company Ltd; and Reji Kumar Pillai, President, ISGF and Chairman, GSGF.

Honourable Minister for Power, New and Renewable Energy and Skill Development and Entrepreneurship Raj Kumar Singh delivered a special address at ISUW 2020

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on March 04, 2020 at the plenary session on Regulations Enabling Energy Transition along with PK Pujari, Chairman, Central Electricity Regulatory Commission (CERC), India; Neil Chatterjee, Chairman, Federal Energy Regulatory Commission (FERC), USA; Barry Gardiner, Member of Parliament for Brent North, House of Commons and Shadow Secretary of State for International Trade and Climate Change, UK; and Eija-Riitta Korhola, Former MP, European Parliament.

ISUW 2020 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. The event was supported by Ministries of Power; New and Renewable Energy; Science and Technology; Housing and Urban Affairs; Commerce and Industry; Environment, Forest and Climate Change; Jal Shakti; Niti Aayog; Smart Cities Mission; and institutions such as Ease of Doing Business, IESA, IEEE, GSGF, MacArthur Foundation, CIGRE, CBIP, ISB, AHEM, ISGAN, VJTI, IEC, CEN, CENLEC, TERI, CEEW, NCIIPC, CII, WWF, APUEA, GBCI, TIE DELHI-NCR, IGEF, ICLEI, FSR, AEEE, DER LABS, Brookings India, IEEE, PHD Chamber of Commerce, Bus World Academy, Natural Gas Society, National Water Mission, Think SmartGrid, France, Central Water Mission, Agnii, JSCA, ACMA, NEERI and GERMI. ISUW 2020 witnessed deliberations on the key issues and trends in Power, Water, Gas, and Electric Mobility domains. Over 264 senior officers from Indian utilities, regulatory commissions and government departments participated to discuss on the latest developments, trends and technologies.

ISUW 2020 witnessed launches of (i) Sweden – India Joint Call on Smart Grids; (ii) European Union - India Joint Call on Integrated Local Energy Systems; and (iii) SEW Innovation Fund. ISUW 2020 had four Special Plenary sessions on: (i) Regulations Enabling Energy Transition, (ii) Power Systems Security in the Era of Cyber Wars, (iii) Women in Energy and Energy Transition; and (iv) Future Skills for the Jobs in 2030s. Parallel workshops on variety of topics were organised at ISUW 2020 such as (i) Global Perspectives on Energy Transition and Smart Grids – in collaboration with Global Smart Grid Federation; (ii) Interconnection of Regional Grids in Asia: SAARC Grid - GCC Grid - ASEAN Grid; (iii) Optimizing Electricity Grids by District Energy System Integration in partnership with APUEA; (iv) 4th edition of



Special Address by R. K Singh, Minister of (Minister of State (I/C) for Power and New & Renewable Energy)

IEC – IEEE World Smart Energy Standardization Coordination Workshop. There were full-day sessions on City Gas Distribution and Water Distribution. In addition to these workshops and sessions, 5 Bilateral Smart Grid workshops were held with USA, European Commission, Sweden, France and Switzerland to facilitate joint research, project partnerships and collaborations, experience sharing and knowledge dissemination.

As part of ISUW 2020, an exhibition was also organised to showcase latest technology and projects on various domains of Smart Grid from India and around the world. There were 31 exhibitors who exhibited at the event. European Union brought 15 successful Smart Grid Projects executed in Europe that are relevant to India as part of the European Pavilion at ISUW 2020.

The Master Class Themes at ISUW 2020 were: (i) Digitalization (ii) E - Mobility (iii) Advanced Cyber Security; and (iv) Energy Storage Systems. Two Technical Tours were also arranged on the last day which took participants to (i) Smart Grid

Lab and 10 MWh Battery Energy Storage System (BESS) at Tata Power DDL, New Delhi and (ii) Renewable Energy Management Centre (REMC) and National Power Systems Control Centre, New Delhi. The Valedictory Session of ISUW 2020 was chaired by PR Kumar, CEO BSES Yamuna Power Ltd and Reji Pillai, President, ISGF and Chairman, GSGF.

The 4th edition of ISGF Innovation Awards Ceremony was held on 6th March 2020 along with ISUW 2020 Gala Dinner. These awards are given to recognize and promote some of the outstanding innovations by utilities, technology providers and start-ups. This year ISGF received 127 nominations from 84 organisations for 8 award categories. 27 winners were felicitated at the awards ceremony. Overall, ISUW 2020 was an enriching experience for all stakeholders.

KEY CONTACTS

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ISUW 2020: PROGRAMME STRUCTURE

3 rd March 2020 Tuesday	4 th March 2020 Wednesday	5 th March 2020 Thursday	6 th March 2020 Friday	7 th March 2020 Saturday
Master Classes Parallel Events Cultural Tours (Optional)	Conference & Exhibition Welcome Reception	Conference & Exhibition	Conference & Exhibition ISGF Innovation Awards 2021 & Gala Dinner	Technical Tours Cultural Tours (Optional)

SUPPORTING MINISTRIES

Ministry of Power Government of India
 Ministry of New & Renewable Energy Government of India
 Department of Commerce Ministry of Commerce and Industry Government of India
 Ministry of Housing and Urban Affairs Government of India
 Ministry of Environment Forest and Climate Change Government of India
 Ministry of Jal Shakti Government of India
 नीति आयोग National Institution for Transforming India
 Ministry of Science & Technology Government of India
 SMART CITIES MISSION
 Ministry of Urban Affairs, Government of India

**ISUW
2020
KEY
HIGHLIGHTS**



- 08 Award Categories
- 127 Award Nominations from 84 Organisations
- 27 Winners of ISGF Innovation Awards
- 16 Certificate of Merit
- 12,110 Social Media Votes for Finalists

ISUW 2020: Key Partners

POWERED BY



HOST UTILITIES



CO-HOST UTILITIES



HOST UTILITIES (GAS)



PLATINUM PARTNER



GOLD PARTNERS



SILVER PARTNERS



COUNTRY PARTNERS



INNOVATION AWARDS PARTNER



WELCOME RECEPTION PARTNER



TECHNOLOGY PARTNERS



BRONZE PARTNERS



KNOWLEDGE PARTNER



EV THEME PARTNER



ISUW 2020 : Exhibitors



ISUW 2020 : Supporting Utilities



ISUW 2020: Theme and Session Partners



ISUW 2020: Supporting Organisations



ISUW 2020: Media Partners



GLIMPSES OF MASTER CLASSES AT ISUW 2020



TRACK-1: Technologies Enabling Energy Transition: DIGITALIZATION
Tutors*: Daniel Nordell, Andrew Ginter, Anant Venkateswaran, Ajoy Rajani



TRACK-2: Technologies Enabling Energy Transition: E-MOBILITY
Tutors : Lonneke Driessen-Mutters, Girish Ghatikar



TRACK-3: Advanced Cyber Security
Tutor: Andrew Ginter



TRACK-4: Technologies Enabling Energy Transition: ENERGY STORAGE SYSTEMS (ESS)
Tutors: Rahul Walawalkar, Ravi Seethapathy, Arumugam Manthiram



GLIMPSES OF PLENARIES & THEMATIC SESSIONS AT ISUW 2020

04 MARCH 2020

THEME-A: Towards A Net Zero Energy Power Sector – Mainstreaming Renewables



(i) ROADMAP FOR 450 GW RE BY 2030
Speakers (L-R): Shalabh Srivastava, Jean-Christophe Füeg, RP Gupta, Ravi Seethapathy, Christine Falken-Grosser, AK Verma



(ii) FORECASTING, SCHEDULING & DISPATCHING OF RE
Speakers (L-R): V Kesavadas, Lalit Wasan, Anil Thomas, Remy Garadue-Verdier, KVS Baba, Vijayan SR, Sanand Sule

THEME B: Towards A Carbon Neutral Transport Sector



i) EV POLICIES AND PROGRAMS IN INDIA VIS-A-VIS INTERNATIONAL SCENARIOS
Speakers (L-R): Manoj Gupta, Vedantha Kumar, Depinder Singh, Dheshi, Shantanu Jaiswal, Daniel Bradley, Ashish Kulkarni



(ii) ELECTRIFICATION OF PUBLIC TRANSPORTATION: EXPERIENCES & CHALLENGES
Speakers (L-R): Toru Sano, Girish Ghatikar, Prasanna Patwardhan, Lonneke Driessen-Mutters, Anish Mandal

THEME-C: Technologies Enabling Energy Transition



Energy Storage Technologies For Grid Support & Evs
Speakers (L-R): Satish Singh, Rakesh Trakur, Mukesh Dadhich, Nilesh Kane, RP Singh, Rahul Walawalkar

THEME-D: Advance and Disruptive Tehnology Trends



(i) VOICE OF THE CUSTOMER IN THE DIGITAL ERA
Speakers (L-R): Stefan Engelhardt, KK Mishra, Hasit Kaji, Anant Venkateswaran, Nick Birrell, RP Singh, Shweta Kulkarni

SPECIAL PLENARY 1: Regulations Enabling Energy Transition



Speakers (L-R): Neil Chatterjee, PK Pujari, Raj Kumar Singh, Barry Gardiner



Speakers (L-R): Reji Pillai, Neil Chatterjee, PK Pujari, Barry Gardiner, Eija-Riitta Korhola

*Tutors name not in the same order of image

05 MARCH 2020

SPECIAL PLENARY 2: Power Systems Security in the Era of Cyber Wars



Speakers (L-R): Muktesh Chander, Kishore Narang, Ajeet Bajpai, Andrew Ginter, Faruk Kazi

SPECIAL PLENARY 3: Women in Energy and the Energy



Speakers (L-R): Chandha Neupane, Kavita Saraswat, Reihana Mohideen, Reena Suri, Reji Pillai, Eija-Riitta Korhola, Kiran Gupta, Shivani Kumar

THEME-A: Towards A Net Zero Energy Power Sector- MAINSTREAMING RENEWABLES



(iii) POWER SYSTEM FLEXIBILITY

Speakers (L-R): Winfried Damm, Raymond Kaiser, Ravi Seethapathy, N Venu, Shishir Shekhar

THEME-B: Towards A Carbon Neutral Transport Sector



(iii) EVs AND EV CHARGING STATIONS – TECHNOLOGY TRENDS AND STANDARDS

Speakers (L-R): PM Singh, Madhan Mohan, Ajoy Rajani, Sandeep Bangia

THEME-C: Technologies Enabling Energy Transition – Digitalization (ii) 250 Million Smart Meters in India by 2024



PART 1: ROLLOUT CHALLENGES

Speakers (L-R): Chandha Neupane, Leon Vergeer, Phil Beecher, Daniel E Nordell, Vishal Kapoor, Reji Pillai, MB Rajesh Gowda



Speakers (L-R): Mritunjay Kumar Narayan, Chandha Neupane, Leon Vergeer, Phil Beecher, Daniel E Nordell, Ajoy Rajani, MB Rajesh Gowda, Vinit Mishra, D Basak



PART 2: ADVANCED APPLICATIONS & ANALYTICS

Speakers (L-R): Indrajit Das, Nick Birrell, Reena Suri, Anant Venkateswaran, Laurent Karsenti, Martin Hauske, Ketan N Shah

06 MARCH 2020

SPECIAL PLENARY 4: Future Skills for the Jobs in 2030



Speakers (L-R): Sreedhar Venkat, Christian Schaffner, Rakesh Kumar Upadhyay, Raman Roy, Reihana Mohideen, Chandan Chowdhury, Amit Kumar Pandey

THEME-A: Towards A Net Zero Energy Power Sector – Mainstreaming Renewables

THEME-B: Towards A Carbon Neutral Transport Sector



(iv) UNLEASHING A SOLAR ROOFTOP REVOLUTION

Speakers (L-R): Ashok K. Das, Sreedhar Venkat, Jagdish Acharya, BP Singh, TC Gupta, Girish Ghatikar, Reji Pillai, RN Sen, IA Khan, Abhishek Ranjan



(iv) BUSINESS MODELS FOR EV FLEETS & CHARGING STATIONS

Speakers (L-R): MB Rajesh Gowda, Anil Srivastava, Pradeep Agarwal, Indradip Mitra, GS Patra, Rahul Tongia, Abhijeet Sinha, N. Mohan

THEME-D: Advanced And Disruptive Technology Trends



(ii) BLOCKCHAIN APPLICATIONS IN THE ENERGY SECTOR

Speakers (L-R): Gianluca Corbellini, Vinod Tiwari, Jitendra Nalwaya, Reena Suri, PK Agarwal, Nitin Gavhane, Rene Schumann, Hazril Izan Bahari, Anshumali Bhushan



(iii) ARTIFICIAL INTELLIGENCE & ROBOTICS

Speakers (L-R): Ashutosh Natraj, Sanand Sule, Tanvi Srivastava, S Samanta, Remy Garadue-Verdier, Amit Kumar Pandey, Anamika Bhargava, Kishore Narang, Sumit Gupta, Nikhil Kurele

GLIMPSES OF BILATERAL WORKSHOPS AT ISUW 2020

6th US - INDIA Smart Grid WORKSHOP– in collaboration with US Department of Commerce and USAID



Speakers (L-R): Renie Subin, Dinah McDougall, Vish Ganti, Larisa Dobriansky, Rahul Tongia, Neil Chatterjee, Gaurav Bhatiani



Speakers (L-R): Mukesh Khuller, G Ganesh Das, UN Behera, Mukesh Dadhich, Sabyasachi Pattanaik

3rd FRANCE - INDIA Smart Grid Workshop - in collaboration with THINK SMART GRIDS



Speakers* of the Session: Christophe Feuillard, Stéphane Jamet, MK Gupta, Ashok Das, Manish Kumar, Deepak Pandey, Philippe Serres, Kedar Sawant, Anant Venkateswaran, Aurélien Sostaponti, Paul Da Cruz, Muralidharan Ramachandran, Anil Kadam, Rakesh Pandey, Valerie Anne Lencznar, AK Verma



*Speakers name not in the same order of image

9th EU - INDIA Smart Grid Workshop – in collaboration with Delegation of the European Union to India and the Directorate General Energy, European Commission



Speakers (L-R): Subir Sen, Patrick Clerens, Matthieu Craye, Christophe Arnoult, Luis Migual Costa, Pradyumna Bhagwat, Naveen Nagpal, Amit Kumar



Speakers (L-R): Jitendra Nalwaya, Edwin Koekkoek, Sebastian Marx, Reji Pillai, Christophe Arnoult, Rémy Garaude-Verdier, Álvaro Nofuentes Prieto, Rupam Raja, Matthieu Craye

1st INDO - SWISS Smart Grid Roundtable - in collaboration with Swissnex



Speakers* of the Session: Christian Schaffner, Patrick Favre-Perrod, Philippe Bieri, René Schumann, Jitendra Nalwaya, Sabyasachi Pattanaik, OD Naidu, Faruk Kazi, Girish Ghatikar, Pankaj Batra, G Ganesh Das, Veronica Garcia, Jagdish Achara, Gianluca Corbellini, Sumit Gupta, PK Agarwal, JBV Reddy, Sebastien Hug

4th SWEDEN - INDIA Smart Grid Workshop - in collaboration with Business Sweden and Swedish Energy Agency



Speakers* of the Session: Ludvig Lindstrom, Anant Venkateswaran, Anders Tofte, Sandip Sinha, Abhishek Ranjan, Ashok Das, Andreas Winter, Amrish Kubavat, Awadhesh Jha, Anil Arora

GLIMPSES OF PARALLEL EVENTS AT ISUW 2020

Global Perspectives on Energy Transition and Smart Grids



Speakers* of the Session: Arindam Ghosh, Pankaj Batra, Rahul Tongia, Eddie Widiono, Gopal Saxena, Martin Hauske, IA Khan, Ravi Seethapathy, SR Narasimhan, BP Singh, Rohan Seneviratne, Rahul Walawalkar

Roundtable on Interconnection of Regional Grids in Asia: SAARC Grid - GCC Grid - ASEAN Grid -In collaboration with USAID India and SARI/EI



Speakers (L-R): Rajiv Ratna Panda, BB Mehta, Ghanshyam Prasad, Pankaj Batra, SR Narasimhan, Rohan Seneviratne, Vinod Kumar Agarwal, Ravi Arora

*Speakers name not in the same order of image

Smart City Gas Distribution



Speakers* of the Session: Ravi Agarwal, Manjeet Singh, Raman Srivastava, Sushil Kumar, Vinay Dixit, Dharmendra Tomar, Balu Ramaswamy, Jiledar, SandepTrehan, Anshumali Bhushan, Tarun Katiyar, Vipin Chittoda, Ranjan Dwivedi, Piyush Tripathi, Amitabh Ranjan, PK Banerjee, Raghav Mathur

Smart Water Distribution - in collaboration with CBIP



Speakers* of the Session: Gaurang Rathi, Ajay Pradhan, Sunil Kumar, Dherminder Mohan, G Asok Kumar, Neville Bhasin, Abha Sargaonkar, RD Yogi, RP Singh, Ali Hosseini, VK Kanjlia



Workshop on Optimizing Electricity Grids by District Energy System Integration – in collaboration with APUEA



Speakers* of the Session: RR Mehta, Sanjay Dube, Teruhisa O, Disha Sharma, Prameet Gupta, Peter Lundberg, Akshay Mangal, Harshul Khanna, Rahul Tongia, Jignesh Rawat, Anant Joshi, Markus Wypier, Rajeev Sharma

4th IEC – IEEE World Smart Energy Standardization Coordination Workshop



Speakers* of the Session: Chandan Roy Chowdhury, Rajeev Sharma, Abhishek Ranjan, PV Mathew, PK Agarwal, Abhishek Ranjan, Rajesh Kunnath, Vimal Mahendru, Kishor Narang, Amarjeet Kumar, Arun Kumar Mishra, Tulika Pandey, G Ganesh Das, Deepak Pandey, Ashish Tandon

GLIMPSES OF EXHIBITION AT ISUW 2020



*Speakers name not in the same order of image



GLIMPSES OF VALEDICTORY SESSION, DISTRIBUTION OF CERTIFICATES, PLAQUES & PRIZES AT ISUW2020



Valedictory Session Chaired by PR Kumar, BSES Yamuna Power Ltd and Reji Pillai, ISGF



Thank You Plaques handed over to all Partners



Certificate of Merit was given to the finalists of ISGF Innovation Awards 2020



Winners of Lucky Draw at ISUW 2020

WELCOME RECEPTION HOSTED BY SAP



Welcome Reception was held on 4th March 2020 and provided an excellent networking opportunity for ISUW 2020 delegates

CULTURAL PROGRAMMES AT ISUW 2020



Padma Shri Shobna Narayan and Troupe, performed at the Welcome Reception of ISUW 2020



Band Astrid performed at the Gala Dinner of ISUW 2020



GLIMPSES OF ISGF INNOVATION AWARDS 2020

Best Smart Grid Project in India by Utility



Power System Operation Corporation Ltd (POSOCO)
Diamond Award



BSES Yamuna Power Limited
Platinum Award



TATA Power Delhi Distribution Limited
Gold Award

Best Smart Grid Project in India by Technology Company



SunMoksha Power Private Limited
Diamond Award



Fluentgrid Limited
Platinum Award



Larsen & Toubro Construction Limited
Gold Award

Most Reliable Supply of Electricity by Utility in India



BSES Rajdhani Power Limited
Diamond Award



Tata Power Company Limited, Mumbai
Platinum Award



Adani Electricity Mumbai Limited
Gold Award

Smart Technology



Kreate Energy (I) Pvt Ltd
Diamond Award



TATA Power Delhi Distribution Limited
Diamond Award



GPS Renewables Private Limited
Platinum Award



Solinas Integrity Private Limited
Platinum Award



Larsen & Toubro Construction Limited
Gold Award



TATA Power Delhi Distribution Limited
Gold Award

Smart Technology

Innovative EV of the year - EV and EVSE Rollouts

Innovative EV of the Year – Two Wheeler



Adani Gas Limited
Gold Award



Bangalore Electricity Supply Company Limited (BESCOM)
Diamond Award



Liger Mobility Private Limited
Diamond Award

Innovative EV of the Year – Three Wheeler

Innovative EV Design and EV/EVSE Rollouts of the Year



Strom Motors (E14 Technologies Pvt. Ltd.)
Platinum Award



Energy Efficiency Services Limited
Platinum Award

Smart Start-up of the Year



Nocca Robotics Private Limited
Diamond Award



Glyd – A Mahindra Initiative (Mahindra & Mahindra Ltd.)
Platinum Award



Greenovative Energy Pvt. Ltd.
Gold Award

Smart Incubator of the Year



Maker Village, Kochi, Kerala
Platinum Award



Indigrams Labs Foundation, Delhi
Platinum Award

ISGF PRESIDENT'S AWARD



Directorate General (DG) - Energy, European Commission



United States Agency for International Development (USAID), India

GLIMPSES OF TECHNICAL TOUR AT ISUW 2020

**Tata Power DDL Smart
Grid Lab, New Delhi**

**10 MWh Battery Energy
Storage System (BESS)
at Tata Power DDL,
New Delhi**

**Renewable Energy
Management Centre
(REMC), New Delhi**

**National Power Systems
Control Centre,
New Delhi**





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ANNOUNCING ISUW 2021



India
SMART UTILITY
Week 2021

02 - 06 March 2021

New Delhi, India

Organiser

ISGF
India Smart Grid Forum

www.isuw.in

ISUW 2021

International Conference and Exhibition
on Smart Energy and Smart
Mobility for Smart Cities

2 nd March 2021 Tuesday	3 rd March 2021 Wednesday	4 th March 2021 Thursday	5 th March 2021 Friday	6 th March 2021 Saturday
Master Classes Parallel Events Cultural Tours (Optional)	Conference & Exhibition Welcome Reception	Conference & Exhibition	Conference & Exhibition ISGF Innovation Awards 2021 & Gala Dinner	Technical Tours Cultural Tours (Optional)

TEAM ISGF

