



## India SMART GRID Week 2016

International Conference  
and Exhibition on Smart Grids  
and Smart Cities

15 - 19 March, 2016  
Manekshaw Center, Dhaula Kuan  
New Delhi, India

[www.isgw.in](http://www.isgw.in) /@isgw2016

### DETAILED AGENDA – DRAFT

#### Day 1 (Tuesday, 15 March 2016): Smart Grid Tutorials and Technical Tours

##### A) Smart Grid Tutorials

###### Track-1: (Venue: Taber, Manekshaw Center, Dhaula Kuan, New Delhi)

10:00 – 13:00 : Case Studies on Smart Grid Project Planning and Successful Implementation:

**Rahul Tongia, Terry Mohn, Pradeep Yemula**

14:00 – 17:00 : A Primer on Big Data Analytics, Visualization, Cloud Computing and its Applications in the Utility Industry:

**Anant Venkateswaran, Alex Li, Mauro Colombo, Kishor Narang**

###### Track -2: (Venue: Shamsher, Manekshaw Center, Dhaula Kuan, New Delhi)

10:00 – 13:00: A Primer on the next generation in Integrated Demand Side Management:

**Anant Venkateswaran, Girish Ghatikar, Nihar Raj, B.A Madhusudhan**

14:00 – 17:00: A Primer on Clean Air and Clean Transportation (EVs and EVSE):

**Girish Ghatikar, EVSE Expert from Netherlands**

##### B) Technical Tour:

Smart Grid Lab at Tata Power Delhi Distribution and National Load Dispatch Centre in Delhi

#### Day 2 (Wednesday, 16 March 2016): Conference and Exhibition, Manekshaw Center

<p>09.30 – 11.15</p> <p>ZORAWAR AUDITORIUM</p>	<p><b>Inaugural Session</b></p> <ol style="list-style-type: none"> <li>Welcome Address: <b>Reji Pillai</b>, ISGF</li> <li>Brief on ISGW 2016: ISGW Technical Committee Chair <b>Richard Schomberg</b>, EDF &amp; IEC</li> <li>Special Address: Platinum Sponsor <b>Chris Hickman</b>, Innovari, Inc</li> <li>Special Address: <b>Henri Steingass</b>, USTDA</li> <li>Special Addresses: Ambassador of Finland <b>H.E.Aapo Polho</b></li> <li>Special address: Ambassador of Sweden <b>H.E.Harald Sandberg</b></li> <li>Special Address: <b>Sir David King</b>, Special Advisor to U.K. Government on Climate Change</li> <li>Special Address: <b>Amory Lovins</b>, Cofounder and Chief Scientist, Rocky Mountain Institute</li> <li>Special Address: <b>Alok Joshi</b>, Chairman, NTRO, Govt of India</li> <li>Special Address: <b>Upendra Tripathy</b>, Secretary, MNRE</li> <li>Special Address: <b>P.K.Pujari</b>, Secretary, Ministry of Power</li> <li><b>Inaugural Address by Chief Guest</b></li> <li>Vote of Thanks: <b>Praveer Sinha</b>, Tata Power Delhi Distribution</li> </ol>
<p>11.15 – 11.30</p> <p>ZORAWAR AUDITORIUM</p>	<p><b>Signing Ceremony for select technology projects between Utilities and Technology Companies</b></p> <p><b>Inauguration of EXHIBITION &amp; POSTER SESSION</b></p>

<p>11.30 – 13.15 ZORAWAR AUDITORIUM</p>	<p><b>Theme-A: Role of Smart Grids in the New Programs of Government of India</b></p> <ul style="list-style-type: none"> <li>• Plan for 24x7 Power Supply to All Citizens in India</li> <li>• Renewable Energy Target of 175 GW by 2022</li> <li>• 100 Smart Cities Mission</li> <li>• National Mission on Electric Mobility</li> <li>• Amendments to Electricity Act</li> <li>• Renewable Energy Act</li> </ul> <p><b>Session Chair: P.K.Pujari, Secretary, Ministry of Power</b></p> <ol style="list-style-type: none"> <li>1. <b>Theme Presentation: Shalabh Srivastava</b>, Accenture (ISGW Knowledge Partner)</li> <li>2. <b>Making India’s Electricity System Secure, Clean, and Affordable – Special Talk by Amory Lovins</b>, Cofounder and Chief Scientist, Rocky Mountain Institute</li> <li>3. <b>Energy Policy for India – Highlights: Kirit S.Parikh</b>, Chairman – IRDAe and Former Member-Planning Commission</li> <li>4. <b>Invitation to Lunch by Lunch Partner – Ericsson</b></li> </ol>
<p>13.15 – 14.00 BANQUET DINING</p>	<p><b>Lunch hosted by ERICSSON</b></p>
<p>14.00-16.00 ZORAWAR AUDITORIUM</p>	<p><b>Theme-B: 21<sup>st</sup> Century Electric Grids – (i) Evolving Trends</b> <b>Session Chair cum Moderator: Richard Schomberg, EDF, France</b></p> <ol style="list-style-type: none"> <li>1. Demand Flexibility: <b>Chris Hickman</b>, Founder &amp; CEO, Innovari, Inc</li> <li>2. Digital Utility: <b>Stefan Engelhardt</b>, SAP</li> <li>3. Smart Microgrids: <b>Terry Mohn</b>, OATI</li> <li>4. V2G Technologies: <b>Girish Ghatikar</b>, ISGF &amp; Greenlots, USA</li> <li>5. Grid Modernization-Technology Choices for India: <b>N.Venu</b>, President and Head, Power Grids Division, South Asia, ABB</li> <li>6. Customer Engagement Strategies: <b>Alex Laskey</b>, Chairman, Founder and President, Opower</li> <li>7. The role and interaction of microgrids and centralized grids in developing modern power systems: <b>Jonas Tjader</b>, STRI AB, Sweden</li> <li>8. Energy Storage Technologies: <b>Rahul Walawalkar</b>, Executive Director, Indian Energy Storage Alliance &amp; Vice Chair, Global Energy Storage Alliance</li> </ol>
<p>16.00 - 18.00 ZORAWAR AUDITORIUM</p>	<p><b>Special Plenary Session-1: Recap of REINVEST &amp; Theme-E: Emerging Era of 100% Renewables &amp; Challenges</b> <b>Session Chair: Upendra Tripathy, Secretary, MNRE</b> <b>Moderator: Ravi Seethapathy, ISGF &amp; Biosirus, Canada</b></p> <ol style="list-style-type: none"> <li>1. Recap of REINVEST – 175 GW of RE by 2022: <b>MNRE Presentation</b></li> <li>2. COP21 Commitment of 40% Energy from Renewables by 2030 and new programs: <b>Ajay Mathur</b>, Director General, TERI</li> <li>3. Towards very high shares of Renewables: Flexibility Indicators and Roadmaps: <b>Christian Nabe</b>, Ecofys</li> <li>4. New Operating Rules – Grid Code and Market Mechanisms: <b>S.K.Sonee</b>, CEO, POSOCO</li> <li>5. Challenges in Financing Renewable Energy: <b>K.S.Popli</b>, CMD, IREDA*</li> <li>6. Challenges in Financing Renewable Energy: <b>Harry Dhaul</b>, DG, IPPAI</li> <li>7. Challenges to Project Developers: <b>S.Prakash</b>, CEO, Saurya Urja Company of Rajasthan Limited*</li> <li>8. HVDC, and in particular VSC technology, an enabler for integration of</li> </ol>

	<p>renewables in the North Europe/ Scandinavian Energy System: <b>Olof Heyman</b>, Senior Advisor, ABB</p> <p>9. Distributed PV Integration Challenges to Discoms: <b>Pankaj Pandey</b>, Managing Director, BESCO</p> <p>10. Off-Grid Solar Development Challenges: <b>A.K.Jain</b>, Managing Director, Rajasthan Electronics and Instruments Ltd</p>
18.00-19.00 ZORAWAR AUDITORIUM	<p><b>Special Plenary Session-2: (1) Climate Change &amp; Impact on Utilities (2) Future of Utilities and the Utility of the Future</b></p> <p><b>Chair: B.N.Sharma</b>, Additional Secretary, Ministry of Finance</p> <ul style="list-style-type: none"> <li>• <b>Sir David King</b>, Special Advisor to UK Government on Climate Change</li> <li>• <b>Martin Ford</b>, Author of Best Seller “Rise of Robots”</li> <li>• <b>Jayant Sathaye</b>, Visiting Professor, UC-Berkely</li> </ul>
19.30 – 22.00	<p>Networking Reception: Cultural Program (Army Band @Foyer of ZORAWAR; Indian Classical Dance Show @ZORAWAR) &amp; Dinner (@BANQUET DINING)</p>
<p><b>Day 3 (Thursday, 17 March 2016): Conference and Exhibition, Manekshaw Center</b></p>	
9.30 – 11.30 ZORAWAR AUDITORIUM	<p><b>Theme-C: Smart Grid Project Outcomes: Experiences and Lessons Learned – UTILITY PRESPECTIVES: Global and Indian Case Studies</b></p> <p><b>Session Chair: Arun K Verma</b>, Joint Secretary, Ministry of Power</p> <p><b>Co-Chair: Prabhu N Singh</b>, Director, National Smart Grid Mission</p> <p><b>Moderator: Ravi Seethapathy</b>, ISGF &amp; Biosirus, Canada</p> <ul style="list-style-type: none"> <li>• Project Deployment Experiences</li> <li>• Key Decision Processes – What went right and what went wrong</li> <li>• Key Questions of Decision Makers and Regulators</li> <li>• Key Questions and View Points of Project Owners and Investors</li> </ul> <p><b>Speakers:</b></p> <ol style="list-style-type: none"> <li>1. <b>ISGAN: Russel Conklin</b>, ISGAN</li> <li>2. <b>Europe: Remy GARAUDE-VERDIER</b>, ERDF, France</li> <li>3. <b>Europe: Bo Normark</b>, Sweden</li> <li>4. <b>Japan: Takashi Ohara</b>, Tokyo Electric Power Company</li> <li>5. <b>UK: Kelly Butler</b>, BEAMA</li> <li>6. <b>Australia: Mark Patterson</b>, CSIRO, Australia</li> <li>7. <b>India: Raghavendra Mehta</b>, Reliance Infrastructure, Mumbai</li> <li>8. <b>India: Praveer Sinha</b>, Tata Power Delhi Distribution</li> <li>9. <b>India: Aniruddha Basu</b>, CESC, Kolkata</li> </ol>
11.30 - 13.30 ZORAWAR AUDITORIUM	<p><b>Theme-C: Smart Grid Project Outcomes: Experiences and Lessons Learned – INDUSTRY PERSPECTIVES: Global and India</b></p> <p><b>Session Chair: R.K.Verma</b>, Chief Engineer, Central Electricity Authority, Govt of India</p> <p><b>Moderator: Dr.Rahul Tongia</b>, ISGF &amp; Brookings India</p> <ul style="list-style-type: none"> <li>• Framework and Characteristics of Successful Projects</li> <li>• Business Cases</li> <li>• How to Rollout Smart Grid Projects? – Key considerations in project formulation, implementation and operation</li> <li>• Customer Engagements Programs – Customer’s View Points and Cooperation</li> <li>• Standards, Architecture and Regulations: Industry expectations</li> </ul> <p><b>Speakers:</b></p>

	<ol style="list-style-type: none"> <li>1. <b>Laurent Schmitt</b>, GE Alstom, France</li> <li>2. <b>Swapnil Pandit</b>, Accenture</li> <li>3. <b>Eric Dresselhuys</b>, Silver Spring Networks</li> <li>4. <b>S.R.Vijayan</b>, ABB</li> <li>5. <b>Phil Stone</b>, Sensus</li> <li>6. <b>Stuart Shaw</b>, Oracle</li> <li>7. <b>Kurt Sweetser</b>, Smart Utility Systems</li> <li>8. <b>Pablo Betancur</b>, Huawei</li> <li>9. <b>Deepak Naik</b>, Sensus</li> </ol>
13.00 – 14.00 BANQUET DINING	Lunch
14.00 - 16.00 ZORAWAR AUDITORIUM	<p><b>Theme –G: Cross Cutting Themes – (1) CYBER SECURITY, (2) Advanced Analytics, (3) Security for IoT Devices</b></p> <p><b>Session Chair: Dr.Gulshan Rai, National Coordinator for Cyber Security, Govt of India</b></p> <p><b>Moderator: Sachin Burman, Director, National Critical Information Infrastructure Protection Centre (NCIIPC), Govt of India</b></p> <p><b>Speakers:</b></p> <ol style="list-style-type: none"> <li>1. <b>Arvind Gupta</b>, National Technology Head, Bharatiya Janata Party</li> <li>2. <b>Justin Searle</b>, UtiliSec – on VIDEO</li> <li>3. <b>Aseem Jakhar</b>, Nullcon</li> <li>4. <b>Inan Ali</b>, EFR, Germany</li> <li>5. <b>Balu Ramasamy</b>, Oracle</li> <li>6. <b>Manish Tiwari</b>, Microsoft</li> </ol> <p><b>Release of Draft Manual on “Cyber Security for Power Systems”</b></p>
16.00-18.30 ZORAWAR AUDITORIUM	<p><b>Special Plenary Session-3: 21<sup>st</sup> Century Electric Grids: Disruptive Innovations and its Applications for Utilities (Theme-B)</b></p> <p><b>Chair: Narendra Taneja, National Convenor, Energy Cell, Bharatiya Janata Party</b></p> <p><b>Moderator: ISGF</b></p> <ol style="list-style-type: none"> <li>1. <b>Machine Learning for Utilities: Prof.Narendra Ahuja</b>, University of Illinois &amp; Director- Information Technology Research Academy, Govt of India</li> <li>2. <b>Wearable Devices: Sangeet Dutta</b>, Apex CoVantage</li> <li>3. <b>3-D Printing for Utilities: Srinivas Shastry</b>, ALTEM Technologies</li> <li>4. <b>AI, Robotics, Drones for Utilities: Marin Ford</b>, Author of “Rise of Robots”</li> <li>5. <b>Deploying IoT technology for the Smart Grid: Thierry Godart</b>, Intel</li> <li>6. <b>Futuristic Design Concepts: Abhishek Roy</b>, Chief/Craftsman, Lunatic Koncepts</li> </ol>
17.00 – 17.30 ZORAWAR AUDITAURIUM	<b>Special Address by: Shri.Piyush Goyal, Hon’ble Minister (I/C) for Power, Coal and MNRE</b>
19.30 Onwards	<b>Cultural Program and Dinner &amp; Prize Distribution to Winners of HACKATHON, INNO-THON and APP-ATHON (@ Hotel Le Meridien, Janpath, New Delhi)</b>
<b>Day 4 (Friday, 18 March 2016): Conference and Exhibition, Manekshaw Center</b>	
10.00 – 11.00 ZORAWAR AUDITORIUM	<p><b>Special Plenary Session-4: IEC Systems Committee on Smart Energy &amp; Theme-G: Cross Cutting Themes – Standards</b></p> <p><b>Session Chair: Alka Panda, Director General, Bureau of Indian Standards</b></p>

	<p><b>Moderator: Girish Ghatikar, ISGF &amp; Greenlots, USA</b></p> <ul style="list-style-type: none"> <li>• BIS vision for development of standards for smart energy and smart cities</li> <li>• Partnerships with Global Standardization Agencies</li> <li>• Roadmap for accelerated development of standards for smart energy and smart cities</li> </ul> <p><b>Speakers:</b></p> <ol style="list-style-type: none"> <li>1. <b>Jack Sheldon</b>, IEC</li> <li>2. <b>Richard Schomberg</b>, IEC &amp; EDF, France</li> <li>3. <b>D.K.Nayyar</b>, DDG (Standardization), Bureau of Indian Standards, Govt of India</li> <li>4. <b>Kishor Narang</b>, Narnix</li> </ol>
<p>11.00 - 13.30 ZORAWAR AUDITORIUM</p>	<p><b>Special Workshop- 7: Smart Grids as Anchor Infrastructure for Smart Cities – Workshop with City Commissioners from Smart Cities</b>  <b>Session Chair: Sameer Sharma, Additional Secretary, MoUD*</b>  <b>Moderator: Karuna Gopal, President, Foundation for Futuristic Cities</b>  <b>Panellists:</b></p> <ol style="list-style-type: none"> <li>1. <b>Jagan Shah</b>, Director, National Institute for Urban Affairs</li> <li>2. <b>Kunal Kumar</b>, Commissioner, Smart City Pune</li> <li>3. <b>City Commissioner – Kochi*</b></li> <li>4. <b>Narendra Singh</b>, Head, LITD, Bureau of Indian Standards</li> <li>5. <b>Chandan Chowdhury</b>, Managing Director, Dassault Systemes</li> <li>6. <b>Vishal Sharma</b>, Accenture</li> <li>7. <b>Ken Roberts</b>, Smart Utility Systems</li> <li>8. <b>Ralph Dsouza</b>, Bentley</li> <li>9. <b>Pablo Betancur</b>, Huawei</li> </ol>
<p>13.00 – 14.00 BANQUET DINING</p>	<p>Lunch</p>
<p>14.30-17.00 ZORAWAR AUDITORIUM</p>	<p><b>Special Workshop -8: Regulations for Smart Grids (Sponsored by European Commission, Asian Development Bank and Shakti Foundation)</b>  <b>Theme-D: Regulatory Support for Smart Grid Rollouts &amp; Amendments to Electricity Act – Separation of Carriage and Content</b></p> <p><b>Electricity Regulators from India and other Asian Countries are invited to participate</b></p> <p><b>Session Chair: Gireesh B. Pradhan, Chairperson, Central Electricity Regulatory Commission, India</b>  <b>Moderator: Rahul Tongia, ISGF &amp; Brookings India</b>  <b>Speakers:</b></p> <ol style="list-style-type: none"> <li>1. Regulatory Support for Smart Grid Projects: <b>Suedeem Kelly</b>, Former FERC Commissioner</li> <li>2. Evolution of Smart Grid Regulations in Europe: <b>Jorge Vasconcelos</b> , Co-founder and first chairman of the Council of European Energy Regulators (CEER) – <b>On Video</b></li> <li>3. Regulatory Innovations – Spurring New Parameters, Players and Structures in the Electricity Sector: <b>Larisa Dobriansky</b>, General Microgids</li> <li>4. Model Smart Grid Regulations in India - <b>Vijay Sonavane</b>, Former Member, MERC</li> <li>5. Retail Competition – the Dutch Experience &amp; Changes in Business Processes and Grid Codes: <b>Bram Reinders</b>, Alliander, Netherlands – <b>on</b></li> </ol>



	<p><b>Video</b></p> <p>6. Challenges in India -1: <b>I.A.Khan</b>, Chairperson Telangana Electricity Regulatory Commission</p> <p>7. Challenges in India -2: <b>R.N.Sen</b>, Chairperson, West Bengal Electricity Regulatory Commission</p> <p>8. Challenges in India -3: <b>Gopal Saxena</b>, Reliance Infrastructure</p> <p>9. Energy Efficiency and Demand Side Management: <b>David More</b>, Opower</p>
17.00-17.30 ZORAWAR AUDITORIUM	CLOSING CEREMONY

## PARALLEL EVENTS/SPECIAL WORKSHOPS/ROUNDTABLES

Day-2 (16 <sup>th</sup> March 2016)	
14.00 – 17.00  TABER HALL	<p><b>Special Workshop-1: Theme-G: Cross Cutting Themes – Communications, Standards and Interoperability - Sponsored by Wi-SUN</b></p> <p><b>Session Chair: D.P.De, Senior DDG, Telecom Engineering Centre, Ministry of Communications, Govt of India</b></p> <p><b>Moderator: Phil Beecher, Wi-SUN</b></p> <p><b>Speakers:</b></p> <ol style="list-style-type: none"> <li>1. <b>Raj Vaswani</b>, CTO, Silver Spring Networks</li> <li>2. <b>Bhupender Virk</b>, President &amp; CEO, Procubed Inc</li> <li>3. <b>D.K.Nayyar</b>, DDG (Standardization), Bureau of Indian Standards, Govt of India</li> <li>4. <b>Amarjeet Kumar</b>, CTO &amp; MD, Procubed Inc; India Regional Coordinator, Wi-SUN Alliance</li> <li>5. <b>Emmanuel Robert Riou</b>, CTO &amp; COO, GridBee Communications</li> <li>6. <b>Terumi Sata</b>, Product Strategy Dept, Rohm</li> <li>7. <b>Ajoy Rajani</b>, Senior Executive VP, Reliance Infrastructure</li> <li>8. <b>Sanjeev Rana</b>, Tata Power Delhi Distribution Ltd</li> <li>9. <b>Sushil Kumar</b>, Telecom Engineering Centre, Ministry of Communications, Govt of India</li> <li>10. <b>Mauro Colombo</b>, ST Microelectronics</li> </ol>
Day-3 (17 March 2016)	
11.30 – 13.30 TABER HALL	<p><b>Special Workshop - 2: Smart Meter to Smart Hubs – AMI Rollout Strategies for India</b></p> <p><b>Session Chair: Arvind Gupta, National Technology Head, Bharatiya Janata Party</b></p> <ul style="list-style-type: none"> <li>• Smart Meters to Smart Hubs - Rollout Plan and Strategies</li> <li>• Preparedness of State Govts, Utilities, Regulators and the Industry</li> <li>• Business Models for Self-Funded and Sustainable Smart Metering Projects</li> <li>• Challenges to the Industry</li> </ul> <p><b>Speakers:</b></p> <ol style="list-style-type: none"> <li>1. <b>Pankaj Pandey</b>, Managing Director, BESCO</li> <li>2. <b>Raj Vaswani</b>, Silver Spring Networks</li> <li>3. <b>Paul Topfer</b>, Ericsson</li> <li>4. <b>Surendra Acharya</b>, Cyan Technologies</li> <li>5. <b>N.S Sodha</b>, Chairman, ETDC – BIS and Ex ED - PGCIL</li> </ol>

	6. <b>Industry Experts</b>
14.00 – 16.00 TABER HALL	<b>Special Workshop-3: India – Sweden Smart Grid Workshop (14.00 – 16.00)</b> <b>Chair: Tarun Kapoor, Joint Secretary, MNRE</b> <b>Moderator: Bo Normark, Sweden</b> <b>Speakers:</b> <ol style="list-style-type: none"> <li>1. STRI AB</li> <li>2. SP-Technical</li> <li>3. MAKSUS</li> <li>4. ABB</li> <li>5. Ericsson</li> <li>6. Utilities/Regulators/Industry Experts from India</li> </ol>
14.30 – 16.30 TALWAR HALL	<b>Special Workshop -4: Electric Mobility – Way Forward for India</b> <b>Chair: R.K.Singh, Joint Secretary, Ministry of Heavy Industries, Govt of India*</b> <b>Moderator: Sajid Mubashir, Dept of Science and Technology</b> <b>Speakers:</b> <ol style="list-style-type: none"> <li>1. Perspectives for Electric Mobility in India: <b>R.K.Singh</b>, Joint Secretary, Ministry of Heavy Industries*</li> <li>2. Energy Storage Systems/ Materials Research in India: <b>Dr.Sundararajan</b>, Distinguished Emeritus Scientist and Professor, IIT-Chennai</li> <li>3. Charging Station Networks &amp; Voltage Levels in EVs: <b>Girish Ghatikar</b>, ISGF &amp; Greenlots</li> <li>4. Short history (15 years) of Reva EV and Lessons for nation-wide deployment of EV fleets: <b>Pavan Sachdeva</b>, Mahindra Reva</li> <li>5. EV &amp; EVSE Research Initiatives in India: <b>Dr. M. Saad Alam</b>, Associate Professor, AMU</li> <li>6. EV Rollout Challenges – Industry Perspectives: <b>Saurabh Rohilla</b>, Deputy Director, Society of Indian Automobile Manufacturers (SIAM)</li> <li>7. The Market Potential of Light Electric Vehicles in India - what has bottled the genie?: <b>Sohinder Gill</b>, Director, SMEV &amp; Global CEO, Hero Electric</li> </ol>
<b>Day-4 (18 March 2016)</b>	
11.00 – 13.00 TABER HALL	<b>Special Workshop-5: Active Demand and Energy Storage for RE Integration</b> <b>Session Chair: Varsha Joshi, Joint Secretary, MNRE</b> <b>Moderator: Panellists: Rahul Walawalkar, India Energy Storage Alliance</b> <ol style="list-style-type: none"> <li>1. <b>Bram Reinders</b>, Alliander, Netherlands – <b>On Video</b></li> <li>2. <b>Remy GARAUDE-VERDIER</b>, ERDF, France</li> <li>3. <b>Manu Puri</b>, Accenture</li> <li>4. <b>Rajesh Bansal</b>, Reliance Infrastructure</li> <li>5. <b>Nayyara Hossain</b>, Global Energy</li> <li>6. <b>Christian Nabe</b>, Ecofys, Germany</li> </ol>
14.00 -16.00 TABER HALL	<b>Special Workshop-6: India – Canada Smart Grid Workshop</b> <b>Chair: Ravi Seethapathy</b> <b>Speakers:</b> <ol style="list-style-type: none"> <li>1. <b>B.Y.Babu</b>, Vizimax, Canada</li> <li>2. <b>Mischa Steiner</b>, Awesense, Canada</li> <li>3. <b>Jason Aspin</b>, Aspin Kemp &amp; Associates, Canada</li> <li>4. <b>Subhasis Ojha</b>, Agnitio Technologies, Canada</li> <li>5. <b>Ganesh Das</b>, Tata Power Delhi Distribution Ltd</li> </ol>

Day-3 (17 March 2016) Technical Paper Presentation	
10:00 – 11:00 SHAMSHER HALL	<b>Technical Session 1: Session Chair: Girish Ghatikar, Greenlots</b> <ul style="list-style-type: none"> <li>Girish Ghatikar, <b>Greenlots</b></li> <li>Debi Prasad Dash, Dr. Rahul Walawalker, <b>IESA</b></li> <li>Nithin S, Sasi K. Kottayil, <b>Amrita Vishwa Vidyapeetham</b></li> <li>Ishaq Sulthan, Jamie Statter and Dr Vatsal Bhatt, <b>USGBC</b></li> <li>Akshat Kulkarni, Mitchell Curtis, <b>KiWi Power</b></li> <li>Sarangapani Goswami, Manu Arora, <b>TPDDL</b></li> </ul>
11:15 – 12:15 SHAMSHER HALL	<b>Technical Session 2: Session Chair: Narang N. Kishor, Narnix</b> <ul style="list-style-type: none"> <li>Jaimala Gambhir, Dr. Tilak Thakur, Rohit Gupta, <b>PEC University of Technology</b></li> <li>Anjan Mitra, Arka Ghosh, <b>CESC Limited</b></li> <li>Shailendra Singh, Dr. S.P Singh, <b>Indian Institute of Technology (BHU)</b></li> <li>Indar-Prakash Singhal, Prashant PANDEY, Raunaque Mujeeb Quaiser, <b>STMicroelectronics</b></li> <li>Anupam Chakraborty, <b>TCS</b></li> </ul>
12:30 – 13:30 SHAMSHER HALL	<b>Technical Session 3: Session Chair: Narang N. Kishor, Narnix</b> <ul style="list-style-type: none"> <li>Samir Chaudhary, <b>Ex-PGCIL</b></li> <li>Pradeep Yamula, Charan Teja, <b>IIT-Hyderabad</b></li> <li>Pulkit Goyal, <b>MNIT, Jaipur</b></li> <li>Rakesh Kumar Goyal, R.P. Agarwal, <b>Tetra Tech</b></li> <li>Mr. S C Dhapare, Mr. Christopher Selvin, <b>Tata Power Company Ltd.</b></li> <li>Rémy Garaude Verdier, <b>ERDF</b></li> </ul>
14:30 – 15:30 SHAMSHER HALL	<b>Technical Session 4: Session Chair: Ramchandran Pillai, Tata Power Company Ltd.*</b> <ul style="list-style-type: none"> <li>Sandeep Pathak, <b>Schneider Electric</b></li> <li>Sheeba Babu, Dr. Ashok Kumar, Prof. Anitha J., <b>PSG College of Technology, Coimbatore</b></li> <li>Jonas Tjäder, Susanne Aceby, Caroline Bastholm, <b>STRI AB</b></li> <li>Shuvomay Halder, Arka Ghosh, <b>CESC Limited</b></li> <li>Mr. Ramchandran Pillai, C. K. Chitnis, F. N. Havaladar, S. B. Kundargi, V. A. Adkar, <b>Tata Power Company Limited</b></li> <li>Ramchandran Pillai, Firoz Havaladar, Sandeep Kundargi, <b>Tata Power Company Limited</b></li> </ul>
15:45 – 16:45 SHAMSHER HALL	<b>Technical Session 5: Session Chair: Prof. Kazi, VJTI</b> <ul style="list-style-type: none"> <li>Vishal Kumar, <b>Landis+Gyr</b></li> <li>Anupam Chakraborty, Anindya Kundu, Sumit Kumar Ray, Anindya Pradhan, <b>TCS</b></li> <li>Deepak Naik, <b>Sensus</b></li> <li>Ramchandran Pillai, S B Modak, A.V. Deo, R.V. Kadu, A. Khare, <b>Tata Power Company Ltd.</b></li> <li>M. Ananta Rao, Alok Maharana, Shibani Kanti Bala, <b>OPTCL</b></li> <li>Sameer Tiku, <b>Bentley Systems</b></li> </ul>

### ISGW 2016: TECHNICAL TOURS AND CULTURAL TOURS (Optional)

Technical Tour on 15	Tour to the Smart Grid Lab and Control Centre of Tata Power Delhi Distribution; and National Load Dispatch Centre of POSOCO in Delhi	For Participation please write to:
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March 2016		sneha@indiasmartgrid.org
Cultural Tours on 19 March 2016	Tour -1: <b>Visit to Taj Mahal</b> in Agra (7 am to 8pm)	
	Tour-2: <b>Visit to historical places in Delhi</b> - Qutab Minar, Red Fort, Jama Masjid, Lotus Temple, Humayun Tomb, India Gate, Connaught Place, Raj Ghat and Shanti Vana, Indira Gandhi Memorial etc. ( 9am to 5pm)	
<b>All Tours in Air-Conditioned Luxury Buses (Volvo Coaches)</b>		

### ISGW 2016: COMPETITIONS

<b>INNO-THON: INNOVATING THE GRID</b>	Organized in association with Tata Power Delhi Distribution and Netaji Subhas Institute (NSIT) of Technology; the challenge is to showcase an innovative and ground-breaking idea/concept through a hardware model, concept note, a software tool etc	11 – 13 March 2016 at NSIT, DWARAKA, New Delhi
<b>APPA-THON: APPS DEVELOPMENT FOR SMART GRIDS AND SMART CITIES</b>	Organized in association with Tata Power Delhi Distribution and Netaji Subhas Institute (NSIT) of Technology; the challenge is to create a smart phone App that can be useful for electric, water and gas utilities and their customers, smart city administration, transport, security, health, sanitation, education etc	11 – 13 March 2016 at NSIT, DWARAKA, New Delhi
<b>HACKATHON: SECURING THE GRID</b>	Organized in association with NCIIPC & VJTI, Mumbai; the challenge is to Capture The Flag (CTF) which involves hacking into a SCADA system, toggle a switch and exit the system	16 – 17 March 2016 at NSIT, DWARAKA
Prize Distribution and Felicitation of Winners of all 3 competitions will be held on 17 <sup>th</sup> March 2016 at Hotel Le Meridien, Janpath, New Delhi 110001 <b>For Participation in the Competitions, please write to: competitions@isgw.in</b>		

### CULTURAL PROGRAMS at ISGW 2016

Date	Time	Program	Venue
16 March 2016	19.00 – 19.15	<b>Band from Indian Army</b>	Foyer outside Zorawar, Manekshaw Center
	19.15 – 20.00	Stand-up Comedy: <b>Amit Tandon</b> ( <a href="http://www.tandonamit.com">www.tandonamit.com</a> )	Zorawar, Manekshaw Center
	20.00 – 21.15	Indian Classic Dance Show: <b>Padmabhushan Drs.Raja &amp; Radha Reddy</b> ( <a href="http://www.rajaradhareddy.com">www.rajaradhareddy.com</a> )	Zorawar, Manekshaw Center
	<b>Cocktails: 19.00 onwards</b> <b>Dinner: 21.15 onwards</b>		
17 March 2016	19.30 -20.00	Prize Distribution and Felicitation of Winners of all 3 Competitions – Innothon, Appathon and Hackathon	Hotel Le Meridien, Janpath, New Delhi
	20.30-23.00	<b>Musical Night with Bandish Band</b> ( <a href="http://www.facebook.com/mybandish/">www.facebook.com/mybandish/</a> )	
	<b>Cocktails: 20.00 onwards</b> <b>Dinner: 21.00 onwards</b>		
<b>For more information on Cultural Programs, please contact: alakh.sahgal@indiasmartgrid.org</b>			

### ISGW 2016 – AT A GLANCE

15 <sup>TH</sup> MARCH 2016 (TUESDAY) - SMART GRID TUTORIALS AND TECHNICAL TOURS (Optional)					
TIME	ZORAWAR	TABER	TALWAR	EXHIBITION FLOORS	SHAMSHER

10.00 to 17.00	Tutorials at Manekshaw Center (Track 1 & 3 @Taber & Track 2 & 4 @Shamsher)				
10.00 to 17.00	Technical Tour to the Smart Grid Lab and Control Centre of Tata Power Delhi Distribution; and National Load Dispatch Centre of POSOCO				
<b>16<sup>TH</sup> MARCH 2016 (WEDNESDAY) – CONFERENCE AND EXHIBITION</b>					
9.30 to 11.30	Inauguration of Conference, Contract Signing Ceremony & Inauguration of Exhibition			EXHIBITION & POSTER SESSION	
11.30 to 13.00	Theme-A: Role of Smart Grids in the New Programs of Government of India				
13.00 to 14.00	LUNCH hosted by Ericsson @ Banquet Hall				
14.00 to 16.00	Theme-B: Part (i) 21st Century Grids – Evolving Trends	14.00 to 17.30 Workshop-1: Theme-G: Part (i) Cross Cutting Themes Workshop: Communications, Standards and Interoperability		EXHIBITION & POSTER SESSION	
16.00 to 18.00	Special Plenary 1: Recap of REINVEST –Emerging Era 100% since challenges				
18.00 to 19.00	Special Plenary -2: Climate Change & Future of the Utility and Utility of the Future				
19.30 onwards	NETWORKING RECEPTION Cultural Program (Army Band, Stand-up Comedian, Indian Classical Dance Show) @ Zorawar Dinner @ Banquet Hall				
<b>17<sup>TH</sup> MARCH 2016 (THURSDAY) – CONFERENCE AND EXHIBITION</b>					
9.30 to 11.30	Theme-C: Part (i) UTILITY PRESPECTIVES: Smart Grid Project Outcomes, Experiences and Lessons Learned (Global and Indian Case Studies)			EXHIBITION & POSTER SESSION	9.30 to 16.00 Technical Paper Presentation by Authors (Select 28 Technical Papers)
11.30 to 13.30	Theme-C: Part (ii) INDUSTRY PERSEPTIVES: Smart Grid Project Outcomes, Experiences and lessons learned (Global & India)	Smart Meter to Smart Hubs – AMI Rollout Strategies for India			
13.00 to 14.00	Lunch @ Banquet Hall				
14.00 to 16.00	Theme-G: Cross Cutting Themes Workshop: - Cyber Security - Advanced Analytics - Security for IoT Devices	INDIA - SWEDEN SMART GRID – ROUND TABLE	14: 30 to 16.30 Special Workshop on Electric Transportation	EXHIBITION & POSTER SESSION	9.30 to 16.00 Technical Paper Presentation by Authors (Select 28 Technical Papers)
16.00 to 18.30	Special Plenary 3 & Theme-B: Part (ii) Disruptive Innovations				
17.00 to 17:30	Special Address by Shri Piyush Goyal				
19.30 onwards	NETWORKING RECEPTION Award Ceremony for winners of Hackathon, Inno-Thon & App-athon; Cultural Program, Dinner (@ HOTEL LE MERIDIEN, JANPATH , NEW DELHI NETWORKING RECEPTION)				
<b>18<sup>TH</sup> MARCH 2016 (FRIDAY) – CONFERENCE AND EXHIBITION</b>					
10.00 to 11.00	Special Plenary 4 & Theme-G: IEC Session	11.00 to 13.00 Workshop-4: Active Demand and Energy Storage for RE Integration		EXHIBITION & POSTER SESSION	
11.00 to 13.30	Special Workshop-7: Smart Grids for Smart Cities				
13.00 to 14.00	Lunch @ Banquet Hall				
14.00 to 16.30	Special Workshop- 8 and Theme-D: Regulations for Smart Grids	14.00 to 16.00 Workshop-6: India – Canada Smart Grid Workshop		EXHIBITION & POSTER SESSION	
16.30 to 17.30	ISGW 2016 CLOSING CEREMONY				
<b>19<sup>TH</sup> MARCH 2016 (SATURDAY) – CULTURAL TOURS (Optional)</b>					
Cultural Tours	Tour-1: Agra and Taj Mahal (7.00am to 19.00pm)				
	Tour-2: Places of Tourist Attraction in Delhi (9.30am to 17.30pm)				