

# ISGT 2018 – Grid Transformation

## Call for Panel Sessions

### Panel Session Proposal Submission

Panel session proposals are to be submitted using the Panel Session Proposal Submission Form below by **September 30, 2017 (no later than 11:59 pm eastern)** by emailing it to [2018isgt@ieee.org](mailto:2018isgt@ieee.org).

### Important Dates

- Panel Submission Site Opens: **July 26, 2017**
- Panel Submission Site Closes: **September 30, 2017 (at 11:59 pm EST)**
- Notification of Panel Acceptance: **October 31, 2017**

The Ninth Conference on Innovative Smart Grid Technologies (ISGT 2018), sponsored by the IEEE Power & Energy Society (PES), will be held on February 19-22, 2018 at the Washington Hilton, Washington DC.

ISGT 2018 is a forum to discuss the latest issues, trends, and emerging and innovative technologies for grid modernization given the rapidly changing environment of increased deployment of renewable and Distributed Energy Resources (DERs), and the emergence of new concepts and services such as prosumers, microgrids, aggregators, distribution markets, platforms, and third parties in the generation and management of electricity. The Conference will feature plenary sessions, panels, technical papers, and tutorials by experts on grid modernization, transmission and distribution systems planning and operations, DER integration, smart grid technologies and applications, and system integration. The conference will also feature speakers and panelists from key federal and state government agencies and discuss ongoing activities, trends and recent developments in the regulatory, policy, and technical arenas. The theme for this year will be “**Grid Transformation**” with three tracks: 1) emerging methods and approaches for transmission and distribution system planning and analysis, 2) the application of technology and supporting tools for transmission and distribution system operations, and 3) market and policy considerations associated with grid transformation.

**The Conference Organizing Committee invites practitioners and researchers worldwide to submit proposals for panel sessions for review and possible presentation. The format of panel sessions typically consists of four speakers and a moderator. Proposals including presentations of electric utility experiences and practical implementations of novel concepts and solutions are encouraged. Proposals are due on September 30, 2017 and final decision will be communicated by October 31, 2017.**

The Conference scope covers the three tracks and could include the following general topics:

### **Track 1: Emerging methods and approaches for transmission and distribution systems planning and analysis**

- Emerging practices for integrated transmission and distribution system planning considering DER and grid-edge actors, including approaches for:
  - Scenario and forecasting analysis
  - Hosting capacity analysis
  - Interconnection processes
  - Locational value analysis
  - DER sourcing
  - Transmission-distribution coordination.

- Application of “Big Data” and advanced analytics to grid planning
- Technologies and methodologies for advancing physical and cybersecurity
- Application of grid architecture to address requirements and design considerations for coordination, information management, interoperability, and communications and control systems.

## **Track 2: The application of technology and supporting tools for transmission and distribution system operations**

- Technologies and methodologies addressing grid integration of (technology-enabled system operations):
  - PV distributed generation
  - Energy storage
  - Combined distributed generation-storage
  - Smart homes and buildings
  - Electric vehicles, and other DER
- Emerging practices and methodologies for grid operation, including provision of grid services from DER.
- Microgrid and advanced technologies and operational experience
- Distributed and optimization methods, e.g., for use in DER Management Systems (DERMS)
- Advanced Distribution Management Systems (ADMS) and future grid operating systems, platforms, and applications
- Sensing, communications and control
- Next generation Advanced Metering Infrastructure (AMI)
- Next generation synchrophasors
- Advanced technology and methodologies for managing grid dynamics
- Advanced technologies and methodologies for wide area operations and awareness
- Edge computing, control and analytics
- Applications of cloud computing in electric power systems
- Application of “Big Data” and advanced analytics to grid operations

## **Track 3: Market and policy considerations associated with grid transformation**

- Methods and tools that can evaluate technological and policy options.
- Operational and regulatory coordination challenges and possibilities at the transmission and distribution seams
- Distribution markets and system platforms (DSP, DSO, etc.)
- Converged infrastructures, including Smart Cities
- Transactive Energy Systems and related topics such as emerging grid services, tradable products, and incentive-compatible market design
- Possibilities and limitations of emerging hardware/software technologies (IoT, Blockchain, etc.) in facilitating distributed transactive exchanges

**Panel Session Proposal Submission Form  
for  
2018 IEEE Innovative Smart Grid Technology Conference (ISGT 2018)**

**Name, Affiliation and Contact Information:**

*Please provide here your name, title, affiliation, and contact information (e-mail address and mailing address).*

**Title of Panel Session:**

*Please provide the title of the panel session.*

**Scope of Presentation or Panel Session:**

*Please provide here a discussion of the content and format of the panel session. The discussion on content should be sufficiently detailed to understand how it addresses one or more themes of the conference and to enable reviewers to assess the proposal's merit against the evaluation criteria noted above. Panel sessions typically range between 1.5 to 2 hours in duration and consist of 3 to 5 presentations with an opportunity for discussion (questions and answers), however, other approaches may be proposed, including those that more effectively engage the audience.*

**Please provide the names, email addresses, titles and affiliations of the session participants with descriptions of what they intend to cover.**

*The above discussion can range from 300 to 2000 words, approximately.*

**Submission of Proposals:**

Please submit proposals to ISGT 2018 Organizing Committee by **September 30, 2017** at:  
[2018isgt@ieee.org](mailto:2018isgt@ieee.org)

Members of the Organizing Committee or Technical Committee of the conference may contact those who submit proposals to gain further clarification on its scope and intent.

For more information about ISGT 2018, please visit the website: <http://sites.ieee.org/isgt-2018/>  
IEEE prohibits discrimination, harassment, and bullying. For more information, visit:  
[www.ieee.org/web/aboutus/whatis/policies/p9-26.html](http://www.ieee.org/web/aboutus/whatis/policies/p9-26.html)