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# IEEE Innovative Smart Grid Technologies ISGT-Middle East

Khalifa University Main Campus,  
Abu Dhabi, UAE March 12-15, 2023



## IEEE-ISGT ME 2023

### About IEEE-ISGT ME 2023:

The first Conference on Innovative Smart Grid Technologies, Middle East (ISGT ME 2023), sponsored by the IEEE Power & Energy Society (PES) and Khalifa University, will be held in Abu Dhabi, UAE on March 12 – 15, 2023 with the theme “Secure and Resilient Smart Grids”

Electrical power and energy systems are entering a new era where renewable integration, transportation electrification, high bandwidth two-way communication and autonomous microgrids, are flourishing and transforming the way in which electrical energy is being generated, transmitted, distributed and utilized. Consequently, the power grid is being required to operate in a way that it was not originally designed for. Such changes are occurring at a rate that is outpacing the development of the power grid and its operational control strategies. The existing power grid infrastructure, operational practices, management plans and protection schemes must undergo radical developments to accommodate these new advancements and guarantee optimized, secure and seamless electrical energy production and utilization. It is mandated to shed more lights on different drivers and enabling technologies that will help arriving at seamlessly operated energy eco system. ISGT ME 2023 is a forum to discuss the latest challenges, developments, and innovative technologies for smart resilient grids of the future. The Conference will feature keynote and plenary sessions, as well as technical papers oral and poster sessions, as well as pre-conference tutorials.

### Conference Objectives

The aim of the IEEE-PES ISGT-ME Conference is to provide an international forum for experts to promote, share, and discuss innovations and developments in the field of smart grid technologies and applications. The academic and industrial community will address new challenges and share solutions at the interface of technology, information, and complex systems, and discuss future research directions



## **Conference Topics (include, but are not limited to):**

- » Renewable and distributed energy resources integration
- » Grid operation and management
- » Microgrid operation, control and protection
- » Integration of EV in smart grids
- » Cyber-physical security and grid resiliency
- » Transactive energy and Blockchain applications for smart grids.
- » Application of AI for smart grids
- » Power Electronic Devices for smart grids
- » Integrated energy systems in smart grids
- » Information and Communication Technologies (ICT)
- » IOT for smart cities
- » Advanced metering, data acquisition and analytics
- » Monitoring, diagnostics, self-healing, and reliability of smart grids

## **Local Organizing Committee**

- » Dr. Arif Al Hammadi; KU; Honorary Chair
- » Dr. Ehab Fahmy El-Sadaany; KU; Conference Chair
- » Dr. Ahmed Al Durra; KU; Conference co-chair
- » Dr. Mohamed El-Mourci; KU; Technical Conference Chair
- » Dr. Hatem Zeineldin, KU; Technical conference co-Chair
- » Dr. Salem Al Harthi, Transco; Industry Chair
- » Dr. Amer Al Hinai; SQU, Publication Chair
- » Dr. Khaled Al Jaafari; KU, Publication co-chair
- » Eng. Fatima Al Dhaheri; AADC, Publicity Chair
- » Dr. Sultan Al Kaabi, AADC, Publicity co-chair
- » Dr. Mohammed Al Badi; SQU; Conference Tutorial Chair
- » Mrs. Khulood Al Ali; KU; Conference Finance Chair

## **Technical Committee**

- » Dr. Magdy Salama; University of Waterloo
- » Dr. Ali Hooshyar; University of Toronto
- » Dr. Weidong Xiao; University of Sydney
- » Dr. Hani Farag; York University
- » Dr. Khaled Goweily; GE Australia
- » Dr. Huai Wang; Aalborg University
- » Dr. S.M. Muyeen, Qatar University
- » Dr. Amr Youssef; Concordia University

## Call For Paper

The paper should contain original results of research that are related to the theory, design, implementation, application, exploitation, maintenance or evaluation aspects of the conference main topics. The authors should prepare their manuscripts in accordance with the IEEE Conference Template. Manuscripts should be written in clear English language. The authors should prepare their manuscripts in accordance with the IEEE Conference Template.

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Registration at the conference is required for the author(s) to present accepted paper(s). Accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements.

## Call For Panels

The Conference Organizing Committee invites to submit proposals for panel sessions for review and presentation (if accepted). The format of panel sessions typically consists of three to four speakers, and a session chair who also serves as the panel moderator. Each panel session is typically expected to be 1.5 hours long. Proposals including presentations of electric utility experiences and practical implementations of novel concepts and solutions are encouraged. Please provide a title and brief description of the panel topic. It is required to include the names, email addresses, titles and affiliations of the proposed panelists along with their presentation topics. A brief abstract of what they intend to cover is optional, but highly recommended. All panel participants including the session chair and panel speakers need to register for the conference.

01 September  
2022

Full paper & panel submission opens

01 November  
2022

Full paper& panel submission closes

01 December  
2022

Notification of decision for paper & panel

01 January  
2023

Paper camera ready submission deadline

05 January  
2023

Early Bird registration Opens

31 January  
2023

Early Bird Registration Closes