

IEEE PES ISGT Asia 2025

Empowering Power System with
Digitalization and Intelligentization: Innovation and Practice

1-3 NOVEMBER 2025, GUANGZHOU, CHINA

Conference Introduction

The 14th IEEE PES Innovative Smart Grid Technologies, Asia conference is an IEEE PES flagship conference organized in Asia. The conference will be hosted by South China University of Technology, which is sponsored by IEEE and IEEE PES Guangzhou Section between 1-3 November 2025 in Guangzhou, China. The IEEE PES ISGT 2025 Asia will be a venue for stakeholders from power and energy utilities, industries, vendors and service providers, academia, and research and development organizations. The conference provides a platform to share and exchange experiences, new ideas and enabling technologies which will address the enormous challenges to be faced by the power and energy industry in response to decarbonisation and integration of high levels of renewable energy resources into future power grids. The IEEE ISGT Asia will provide IEEE members & non-members access to the best knowledge, resources & opportunities in emerging technologies, challenges faced by power and energy industry/utilities across Asia and the globe.

Experience the highlights of the 3-day ISGT Asia 2025 Conference, a global gathering where researchers, professionals, and experts from around the world came together to present cutting-edge research and share insights across diverse fields. This event was made unforgettable not only by the esteemed speakers who shared their expertise but also by the dedication of our student volunteers and organizing committee, who put in countless hours and sleepless nights to make this conference a remarkable success for all involved.

Topics

Empowering Power System with Digitalization and Intelligentization: Innovation and Practice

Research Themes:

- AI-Driven Operation Optimization and Adaptive Dispatch for Smart Grid
- Coordination of Source-Grid-Load-Storage for Planning, Operation and Control of Smart Grid
- Integration of Smart Grid and Digital Twin Technology: Challenge, Application and Trend
- Electricity Market Reform and Economic Dispatch in Smart Grid
- Distributed Situational Awareness, Optimization and Control of Smart Grid
- Application of Distributed Energy and Blockchain Technology in Energy Trading
- Disaster-causing Mechanism and Resilience Enhancement of New Type Power System Under Extreme Events
- Collaborative Development of 5G and IoT in Smart Grid
- Smart Grid Energy Efficiency Management Based on Big Data and Cloud Computing
- Cybersecurity and Privacy Protection in Smart Grid
- Other themes

Submission requirements

The submitted materials should be original achievements that have not been published or accepted by other publications or conferences. The content of the manuscript should include research ideas, principles and methods, conclusion analysis or engineering practice, etc. The writing language should be English, and the length should not exceed 6 pages.

Please follow the IEEE template requirements:
<https://www.ieee-pes.org/templates-and-sample-of-pes-technical-papers>.

Submit the complete electronic version of the paper in a single PDF file format.

Please submit the full paper online through the conference submission system:

<https://cms.amss.ac.cn/index.php>

Website

<https://ieee-isgt-asia.org/>

Important Dates

- **Deadline for submission of full paper**
August 31, 2025
- **Full paper acceptance date**
September 20, 2025
- **Final submission deadline**
September 30, 2025
- **Early Bird Registration Deadline**
September 30, 2025
- **Conference Date**
November 1-3, 2025

Contacts

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