

# ICSMARTGRID 2025

13<sup>TH</sup> INTERNATIONAL CONFERENCE ON SMART GRID

May 27-29, 2025, Glasgow/United Kingdom

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#### SPECIAL SESSION

#### Title: Smart Energy storage management and trends

##### Short Description

The aim is to explore innovative approaches and emerging trends in smart energy storage systems, which are critical for renewable energy integration, grid reliability, and energy efficiency. The SS will focus on advancements in energy storage technologies, intelligent management, and their applications in green mobility, zero-energy buildings, and decentralized energy systems. Challenges such as scalability, integration, efficiency, predictive management, environmental impacts and cybersecurity still persist regarding electrical energy storage.

##### Topics of interest for this special session include, but are not limited to:

- Advancements in Energy Storage Technologies, Materials, Challenges and Opportunities
- Smart Energy Management Systems
- Integration of Energy Storage with Microgrids and Smart Grids
- Energy Storage Solutions for Electric Vehicles and Green Mobility
- Role of Storage in Zero-Energy and Smart Buildings
- Vehicle-to-Grid (V2G) Systems and Challenges
- Renewable Energy Storage for Decarbonized Urban Infrastructure
- Cost Reduction Strategies for Emerging Energy Storage Technologies
- Grid-Scale Energy Storage Innovations for Renewable Integration
- AI-Driven Optimization of Energy Storage Systems
- Blockchain and Peer-to-Peer Energy Storage Transactions
- IoT and Edge Computing for Real-Time Monitoring and Control

##### Deadlines

Call For Papers Website URL	<a href="http://www.icsmartgrid.org">www.icsmartgrid.org</a>
3 to 5 Pages Long Digest Submission Deadline	April 20, 2025
Notification of acceptance	May 10, 2025
Final submissions due	May 20, 2025
Conference	May 27-29, 2025

##### Chairs of the Special Session

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