



ICCEP 2025

9th International Conference on Clean Electrical Power

Special Session on Real-Time Monitoring and Predictive Maintenance for Renewable Energy Generation Systems

This session aims to explore cutting-edge innovations in real-time monitoring and predictive maintenance for renewable energy systems. By emphasizing advanced methodologies for fault detection, performance diagnostics, and lifecycle optimization, the discussion will highlight how data-driven tools and artificial intelligence can enhance the reliability, efficiency, and longevity of power generators and associated systems. By bringing together experts in the field, the session seeks to foster the exchange of ideas and practical solutions to address industry challenges and speed up the transition to sustainable energy.

Key topics include:

- Monitoring and diagnostics: Advanced methodologies for real-time monitoring, fault detection, and performance diagnostics of power generators and associated systems.
- Predictive maintenance and lifecycle optimization: Leveraging data-driven tools to enhance the longevity and reliability of renewable energy systems.

This special session is organized by:

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