



# 5th IEEE International Conference on Sustainable Energy and Future Electric Transportation (IEEE SeFet 2025)

09 July - 12 July, 2025, Jaipur, Rajasthan INDIA



## SPECIAL SESSION ON

# Impact of Virtual Synchronous Machine (VSM)-Based Resources and Dynamic Loads in Modern Power Systems

### TOPICS

- Resilient Grid Operations with Renewable and Inverter-Based Resources
- Dynamic Reconfiguration and Energy Dispatch for Critical Infrastructure
- Integration of Battery Energy Storage for Renewable Energy Optimization
- Data-Driven Grid Management: Leveraging Sensors and Smart Systems
- Cyber-Physical Resilience in Modern Power Systems
- Distributed and Decentralized Control Strategies for Grid Stability
- Advanced Voltage and Frequency Control in Renewable-Rich Grids
- Modernizing Grid Management with Artificial Intelligence and Advanced Distribution Systems

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