



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

Malaviya National Institute of Technology Jaipur  
09 July - 12 July, 2025



SeFet  
2025

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## About SeFet 2025

The 5th IEEE International Conference on Sustainable Energy and Future Electric Transportation (SeFet) aims to provide a platform for Engineers, Researchers, Scientists & Academicians to present their work, share experiences and ideas in the areas of Renewable Energy, Sustainability, Electric Transportation & Charging Infrastructure, Power Electronics, Electric Drives, Control Techniques, Smart & Micro Grids, Communication Protocols and Standards. Given the changing scenario under sustainable energy & electric transportation, this conference aims to put together experts from these areas to disseminate their knowledge and experience for working in years to come. IEEE SeFet 2025 will feature Keynotes and Plenary Sessions, Technical Paper Presentations, Industry Sessions and Awards.

## Technical Tracks

**Track 1:** Power and Energy Conversions for Sustainable Energy and Transportation Systems

**Track 2:** Charging Systems and Infrastructure for Sustainable Transportations

**Track 3:** Energy Storage Technologies and Management Systems for Sustainable Transportation

**Track 4:** Renewable Energy Integration, Control and Management

**Track 5:** Demand Response Management, Stability in Microgrids/Smart Grids and Energy Trading

**Track 6:** AI, ML, Data Analytics and Cyber Security, and IoT Applications to Sustainable Energy and Electric Transportation

## Special Session

**SS 1:** Advances in Solar PV: Design, Reliability, Integration, Applications, and Sustainability.

**SS 2:** Smart management and fault diagnosis in EV battery system.

**SS 3:** Innovative and Interdisciplinary Approaches for Sustainable Electrification.

**SS 4:** Power System Monitoring, Protection and Control in the Presence of Inverter-Based Resources and E-Mobility.

**SS 5:** Empowering the Future with Hydrogen-Based Systems.

**SS 6:** Innovative Protection Strategies, Resilient Architectures, and Advanced Power Conversion for Next-Generation Energy Systems.

**SS 7:** Towards Net-Zero: Sustainable Building Energy Systems & Management.

**SS 8:** Advancing Sustainability through Hybrid Renewable Energy Systems.

**SS 9:** Cyber-Physical Innovations for a Green Energy-Transportation Future.

**SS 10:** Decarbonization Methods, Policies, and Tools for a Sustainable Energy Transition.

**SS 11:** Transformative Power Conversion Systems for Future-Ready Electric Vehicle and Energy Grids.

**SS 12:** Energy management through hierarchical control.

**SS 13:** Impact of Virtual Synchronous Machine (VSM) Based Resources and Dynamic Loads in Modern Power Systems.

**SS 14:** Cyber-Secure Energy System: Enhancing Management for Smart EV Operation and Charging Infrastructure.

**SS 15:** Integration of Digital Twin in Electric Vehicle Control Systems

**For Paper Submission:**



<https://cmt3.research.microsoft.com/SeFet2025>





# SeFet 2025



## Sponsorship Grid

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