



Call for Papers: Special Session

SS10: Eco Rating and Lifecycle Intelligence for Electrotechnical Products

About the Session

This special session addresses the urgent need for scientifically grounded sustainability assessment of electrotechnical products across their entire life cycle. It focuses on eco-rating frameworks, ISO 14040/44-based life cycle assessment, and emerging digital enablers such as AI-driven LCA, IoT monitoring, blockchain traceability, and digital twins. Moving beyond checklist-based compliance, the session integrates design, manufacturing, policy, and end-of-life perspectives. Through global standards, India-centric regulations, and real-world case studies, it aims to foster data-driven, transparent, and actionable sustainability intelligence for next-generation electrotechnical systems.

Organizers



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Topics of the Session include but are not limited to

- ✓ Unified Eco-Rating Frameworks for Electrotechnical Products
- ✓ ISO 14040/44–Aligned Life Cycle Assessment for Electrical and Electronic Devices
- ✓ Carbon, Water, and Energy Footprint Modelling of Electrotechnical Systems
- ✓ Circular Economy and Eco-Design Strategies
- ✓ Hazardous Substance Mapping and Regulatory Compliance
- ✓ AI-Driven and Automated LCA Tools
- ✓ Digital Twins and IoT for Lifecycle Intelligence
- ✓ Blockchain-Based Traceability and Transparency in Electronics Supply Chains
- ✓ Eco-Labeling Schemes and Global Benchmarks
- ✓ Policy Roadmaps for National Eco-Rating Systems



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Paper Submission Deadline: 31st Jan 2026

Submission

<https://cmt3.research.microsoft.com/SEFET2026/Submission/Index>

Conference Website: <https://vnit.ac.in/sefet26/index.html>

*** All presented papers will be considered for further review and publication in IEEE Transactions on Industry Applications and IEEE Industry Applications Magazine.**