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Association pour la Promotion de l'Innovation des Matériels Electriques

Groupe de Recherche en Energie Electrique de Nancy
Green

LORRAINE INP Ensem

UNIVERSITÉ DE LORRAINE

FST Faculté des Sciences et Technologies Nancy

Welcome to SATES-2025

It is our great pleasure to invite you to participate to the international **Symposium on Advanced Technologies in Electrical Systems**. It will be held the 8th and 9th April 2025 in the campus of the Faculty of Sciences and Technologies, Université de Lorraine, Vandoeuvre-les-Nancy, France.

Scope

In the general context of **sustainable development and strategic resiliency**, the conference will cover new usages of electricity and renewable energy resources, **from circular economy to safety & security** of electrical supply chain.

The objective is to **connect researchers from industry and academia** in order to encourage them to work together on common themes. All TRL levels will be addressed. Contributions on feedback from experiences will be very useful and will facilitate discussion on common issues **at all levels of maturity and development**.

Abstract Submission

Prospective authors should submit an abstract of one or two pages (A4) using the online submission system available on this link :

https://sates-2025.sciencesconf.org/

The instruction for the preparation of paper will be given on the conference web site. The manuscripts will be evaluated by reviewers.

Important Dates

15th November 2024	Abstract submission deadline
15th January 2025	Notification of acceptance
15th February 2025	Full paper submission deadline
8th & 9th April 2025	SATES-2025

Topics

1. Circular – Economy for electrical system

Systemic approach using different levers:

- Reusing, Sharing, or Leasing
- Repairing, or Refurbishing
- Recycling
- Eco-design
- Life Cycle Assessment

2. Electrical Grid Reliability & resiliency

Review the potential energy efficiency improvement:

- Digital Twin
- Energy sources and Energy storage
- Prevention and management of outages
- Superconductors

3. Re-industrialization for electrical products

Challenges and opportunities to strengthen and develop industry by:

- Redesigning products
- New processes or sourcing
- Access to strategic Materials and components
- Sustainability of the supply chain

4. Electrical Energy Efficiency

Review the potential energy efficiency improvement:

- The economic potential of loss-saving
- Barriers and incentives to minimize losses
- Considering the losses in the network design
- Sustainability

5. Security & safety of electrical supply chain

How to ensure availability and key functions of electrical supply chain:

- Cybersecurity
- Diversification of energy supply
- Natural risks (seism,..)
- Emergency management
- Quality of life vs security & safety

Mail : sates-2025@sciencesconf.org

APIME - www.apime38.com
GREEN - green.univ-lorraine.fr

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Fees

Participant	250€
Student	80€

Location

The technical program of the SATES 2025 will be held on the campus of Faculty of Sciences and Technologies - Campus Aiguillettes in Vandoeuvre Les Nancy, France

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