



CALL FOR PAPERS

2026 International Conference on Transport
Electrification and Energy Storage
(ICTEES)



Cardiff University, 20-22 August

You are cordially invited to attend the **2026 International Conference on Transport Electrification and Energy Storage (ICTEES 2026)** at Cardiff University, UK, on 20-22 August 2026. The conference serves as a premier global platform for thought leaders, researchers, and industry pioneers to shape the future of transport electrification and energy storage technologies.

Honorary Chairs

Phil Mawby (IET Fellow, University of Warwick, UK)
Volker Pickert (Newcastle University, UK)

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Morvillier Raphaël (Alternative Energies and Atomic Energy Commission, France)
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Andrii Chub (Tallinn University of Technology, Estonia)
Tetina Serdiuk (Ukrainian State University of Science and Technologies, Ukraine)
Yanni Zhong (Siemens, UK)
Ravita Lamba (Indian Institute of Technology Roorkee, India)
Qingsong Wang (École de technologie supérieure (ÉTS), Canada)
Mohamed Dahidah (Newcastle University, UK)
Vanja Ambrozic (University of Ljubljana, Slovenia)
Binxin Zhu (China Three George University, China)
Yang Xiao (University of Leicester, UK)

Keynote Speakers

Dimosthenis Peftitsis
Eindhoven University of
Technology, Netherlands

Xiaolin Ding
National Grid, UK

Themes and Topics

Transport Electrification & Propulsion

Hybrid electric vehicles (HEVs), plug-in hybrid electric vehicles (PHEVs), electric vehicles (EVs), and range-extended EVs; Electrification of heavy-duty, off-road, and defense vehicles; Powertrain electrification for trains, rail, marine, aerospace, and space applications; Advanced vehicular power electronics, traction inverters, and motor drives; AI-driven control of propulsion and vehicle energy management; High-efficiency traction motors and their manufacturing techniques; Smart grids and smart grids; Component reliability, thermal management, electronics packaging and integration for power electronics.

Energy Storage Technologies & Systems

Electrochemical, chemical, mechanical, electrical, and thermal energy storage technologies; Battery management systems (BMS), state-of-health (SoH), and state-of-charge (SoC) optimization; Next-generation batteries: lithium-ion, solid-state, sodium-ion, and hybrid chemistries; Fuel cells and hybrid storage applications in transportation; Energy storage for grid-scale applications, off-grid systems, and portable electronics; Multi-purpose storage integration with buildings and smart grids; Recycling, reuse, and second-life applications of batteries; Digital manufacturing and smart production of EV components and systems.

Charging Infrastructure, Grid Integration & Connectivity

On-board and off-board charging, fast charging, and opportunity charging; Inductive and dynamic wireless charging in roadways; Vehicle-to-grid (V2G), vehicle-to-home (V2H), and vehicle-to-infrastructure (V2I) technologies; Smart charging, demand response, and grid flexibility solutions; Cybersecurity and data-driven energy management in transport and flexible power plants; Large-scale distributed storage management and energy dispatch; Advanced manufacturing technologies for batteries, power electronics, and electric drivetrains.

Sustainability, Manufacturing & Policy Frameworks

Environmental impact assessment and emissions reduction strategies; Standardization of transport electrification and grid interface protocols; Source-to-wheel (STW) energy analysis and life cycle assessment; Government policies, incentives, and market trends in EV adoption; Interoperability of energy storage with renewables and flexible power plants; Lessons learned from real-world EV and grid integration pilot projects; Supply chain challenges and opportunities for sustainable electrification.

Special Sessions

Special Session 1 - Digitalization and Innovation in Energy Storage and Power Infrastructure

Session Chairs:

Qinwei He (Global Energy Interconnection Research Institute Europe GmbH, Germany)
Xiaopeng Yuan (RWTH Aachen University, Germany)

Special Session 2 - Advanced Protection and Solid-State Circuit Breakers for Next-Generation Energy Storage Systems

Session Chairs:

Yu Xiao (Xi'an Jiaotong University, China)
Zhong Chen (The Hong Kong Polytechnic University)

Important Dates

Abstract Submission Deadline: 31 May 2026

Manuscript Submission Deadline: 21 Jun. 2026

Final Paper Submission: 19 Jul. 2026

Early-Registration Deadline: 14 Jul. 2026

Registration Deadline: 20 Aug. 2026

Submission

<https://paper.ictees.org/login/ICTEES.html>



Publication Information

All presented papers will be included in IET Conference Proceedings, and indexed by EI Compendex, Scopus etc.