

CALL FOR PAPERS



On behalf of the International Steering Committee and the Local Organizing Committee, we cordially invite you to attend in Kiel, Germany, the 16th IEEE PowerTech 2025, co-sponsored by IEEE Power & Energy Society (PES) and Kiel University.

The PowerTech 2025 conference, themed 'Powering the Energy System Transformation', aims to address the pressing challenges and opportunities associated with the global shift towards more sustainable and resilient energy systems. As the world increasingly turns to renewable energy sources, smart grids and innovative storage solutions, this conference will serve as a central platform for researchers, industry experts and policy makers to exchange ideas and foster collaboration. Through a mix of technical sessions, panel discussions and networking opportunities, PowerTech 2025 will explore the transformative potential of emerging technologies and innovative practices to drive the energy sector towards a greener and more sustainable future.

LOCATION:

Kiel, Germany

CONFERENCE DATE:

June 29th – July 3rd, 2025

PowerTech is the flagship conference of the IEEE PES in Europe, providing a premier forum for researchers and engineers involved in electric power and energy engineering to share ideas and results. Both industry and academia are welcome to strengthen their collaboration and lead the innovation in the energy world. We welcome participants from both industry and academia to strengthen collaboration and lead innovation in the energy world.

ENERGY SYSTEMS

- Energy Supply Security and Resilience
- Energy Economics and Policy
- Energy Efficiency and Conservation
- Grid Flexibility and Infrastructure Planning
- Forecasting, modeling, and management of smart grids
- Electricity market, policy, and regulatory aspects

TECHNOLOGIES FOR THE ENERGY TRANSITION

- Molecules-based Energy Storage Systems: Power-to-X, Hydrogen, Ammonia
- Energy Storage Technologies and Applications
- New Battery Technologies and Materials
- Electric Vehicles and Charging Infrastructures
- Optimization, Modeling, and Control of Distributed Assets
- Business cases for New Technologies Integration

DIGITALIZATION

- Artificial Intelligence (AI) and Big-Data Analytics
- Internet of Things (IoT) in Power Systems
- Digital Twins for Power Systems
- Power Hardware In the Loop
- Cyber and physical security systems
- Co-simulation of electric energy systems and ICT systems

ELECTRONIC GRID SYSTEMS

- DC grids modeling and control: from LV to HV DC grids
- Microgrids and AC/DC Hybrid Grids
- Flexible power electronics-based grids: Smart Transformer, FACTS
- Low Inertia Power Systems Dynamics, Stability and Control
- On-board systems for ships, airplanes, off-road applications
- Standardization of Electronic Grid Systems

TRANSACTION PAPERS

Authors of recently accepted relevant IEEE PES Transactions Papers, covering one of the conference themes, are invited to submit their papers to PowerTech2025 (please see the list of eligible Transactions below). The papers should be submitted through the paper submission form, with the note that the paper is accepted for publication in the IEEE PES Transaction journal. These papers will be directly accepted without further review and allocated to an oral presentation session. Only abstracts will appear in the proceedings of the conference.

- IEEE Transactions on Power Systems
- IEEE Transactions on Power Delivery
- IEEE Transactions on Energy Conversion
- IEEE Transactions on Smart Grid
- IEEE Transactions on Sustainable Energy
- IEEE Transactions on Energy Markets, Policy, and Regulation

PES Transactions papers will only be eligible for presentation if they are available on IEEE Xplore (Early Access included) and have an acceptance date no earlier than **1st of January 2024**.

IMPORTANT DATES

- Opening Call for Paper:
22/07/2024
- Full paper submission Deadline:
10/01/2025
- Notification of Acceptance:
31/03/2025
- Final paper submission Deadline:
28/04/2025

We look forward to your contributions and welcoming you to Kiel for PowerTech 2025. Together, let's power the energy system transformation!

SUBMISSION PORTAL:

Please submit your papers via the online submission system at **to be announced**.

CONTACT INFORMATION:

For more information, please visit the conference website at **2025.ieee-powertech.org**

or contact the conference organizers at email **info@powertech2025.uni-kiel.de**.



SCAN QR CODE

And come directly to the PowerTech2025 website