

Participant information:

Registration is **only** possible online at www.dc-verteilnetztagung.de. After registration, you will receive an invoice for payment.

Registration Deadline: April 6, 2026

Conference dinner registration deadline: March 31, 2026

Participation Fee:

- **Registration by March 24, 2026 (early bird)**
 - €450
 - €400 for FEN Partners
- **Registration from March 25, 2026**
 - €500
 - €450 for FEN Partners

Registration under:



Link: <https://gstoo.de/dc-verteilnetztagung>

Cancellation:

In case of written cancellation by March 27, 2026, the participation fee will be refunded. After March 27, 2026, the full participation fee will be charged.

Accommodation:

Recommendations for possible accommodation options can be found at: www.dc-verteilnetztagung.de

Reservation of Right to Modify:

The organizer strives to conduct the program as announced. However, in the event of unforeseen circumstances, the organizer reserves the right to modify the program or schedule. The organizer cannot be held liable for any loss or consequences arising from such changes.

Scientific Board:

- Prof. Stefan Kornhuber, Zittau / Görlitz University of Applied Sciences
- Prof. Rik W. De Doncker, RWTH Aachen University

Program Committee:

- Prof. Cezary Dzienis, Zittau / Görlitz University of Applied Sciences
- M.Sc Benjamin Jacobsen, Chemnitz University of Technology
- Prof. Maria Kosse, Dresden University of Technology
- Dipl.-Ing. Mark Richter, Fraunhofer IWU
- Prof. Peter Schegner, Dresden University of Technology
- PD Dr. habil. Stephan Schlegel, Dresden University of Technology
- Prof. Uwe Schmidt, Zittau / Görlitz University of Applied Sciences

Contact:

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Conference Venue: Aachen

Conference Language: English

Conference Office:

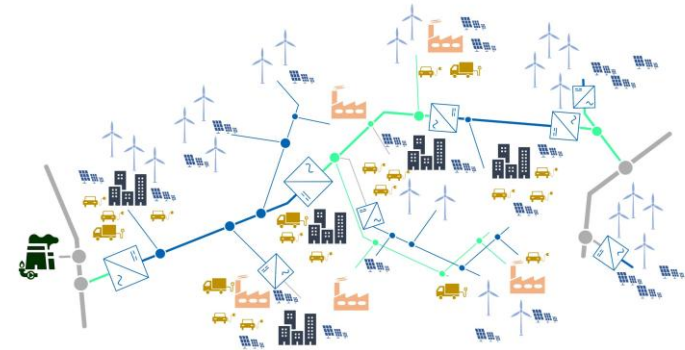
Until 15 April 2026:

Flexible Electrical Networks FEN GmbH
Campus-Boulevard 79
52074 Aachen

On 16 and 17 April 2026:

From 9:00 a.m. at the conference venue

Invitation



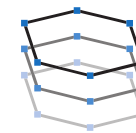
3rd Conference on DC Distribution Grids

Innovations
Challenges
Perspectives

16-17 April 2026

Eurogress Aachen

Monheimsallee 48, 52062 Aachen



**FLEXIBLE
ELECTRICAL
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RESEARCH CAMPUS

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UNIVERSITY**

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Federal Ministry
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and Space

Thursday, 16. April 2026

- 08:00 Registration & Welcome Coffee
- 09:15 Welcome & Introductory Kick-off
- 09:45 Keynote: The end of AC grids as we know them – Gradual deployment of decoupled DC grids
A. Monti, RWTH Aachen University
- 10:30 Practical Case Example: DC-Network for residential areas
W. Möll, Eugebau mbH
- 11:00 Invited Talk: DC Microgrids Applications of the Open DC Alliance ODCA
H. Stammberger, ODCA
- 11:30 Coffee break
- 11:50 Beyond Technical Feasibility: Distribution System Operators' Perspectives on the Implementation of DC Technology in Public Distribution Grids
Ilmenau University of Technology
- 12:10 MVDC, will niche fixing be the case of use?
Hitachi Energy
- 12:30 A structured review of the economic assessment of MVDC grids
Fraunhofer IPA
- 12:50 Subsidy Design and Household Adoption of Hybrid AC/DC Homes: Evidence from a Discrete Choice Experiment
RWTH Aachen University
- 13:10 Lunch Break
- 14:20 A KPI-Driven Framework for the Strategic Siting and Sizing of MVDC Links in Established MVAC Distribution
University of Applied Sciences Mittelhessen
- 14:40 Alternating Direction Method of Multipliers based Scheduling Approach for DC-Interconnectors between HVAC-Sub-Transmission Grids
Ilmenau University of Technology
- 15:00 State-of-Grid-Based Control Concept for Communication-Free Coordination in Hybrid AC/DC Microgrids
Karlsruhe Institute of Technology

- 15:20 Design and Simulation of MVDC grids based on DC-INDUSTRY in the DC-POWER project for MW pilot plants
Ostwestfalen-Lippe University of Applied Sciences
- 15:40 From Harmonics to DC Ripple- Break-even Ripple Levels for MV hybrid AC/DC Distribution Grids
B. Jacobsen, Chemnitz University of Technology
- 16:00 Poster Session; Coffee break
- 18:00 City Tour / Cathedral Tour (optional)
- 19:00 Conference Dinner (optional)

Friday, 17. April 2026

- 08:00 Welcome Coffee
- 08:30 Keynote: Integrating DC into existing AC Networks: More Control, More Complexity, New Responsibilities
Dr. Klatt, SachsenNetze HS. HD GmbH
- 09:15 Invited Talk: Direct Current Technologies, a Game-Changer for the Energy Transition
Prof. D. Van Hertem, KU Leuven
- 09:45 Coffee Break + Poster Session
- 10:45 Demonstrator for Scalable Solid-State Transformer based LVDC Microgrids
Maschinenfabrik Reinhausen
- 11:05 DC Distribution Grids
University of Applied Sciences Technikum Vienna
- 11:25 Short-circuit fault characteristics considering travelling wave propagation in DC distribution networks
Dresden University of Technology
- 11:45 Experimental Investigation of a Low-Voltage DC Distribution Network Using a Power Hardware-in-the-Loop Test Bench
Ilmenau University of Technology
- 12:05 Planning and Setup of a PHIL Testbench for LVDC Converter Compatibility
RWTH Aachen University
- 12:25 DC-LabSaxony – Challenges in Operational Design and Construction of a MV/LV-DC Laboratory in the Megawatt-Scale
Dresden University of Technology

- 12:45 Lunch Break
- 13:45 Interconnection of MVDC and MVAC grids through multi-port converter
Hitachi Energy
- 14:05 Medium voltage cable ageing phenomena under DC and AC stress
Nexans
- 14:25 DC-Side Emission Characteristics of Commercial 48 V Inverters up to 150 kHz
Dresden University of Technology
- 14:45 Conference Closing/ End of the Event

Posters

- The War of Currents – how DC technology lost the battle 150 years ago, but may win the war exploiting its full potential in a volatile, liberalized energy world | RWTH Aachen University
- From Lab to Field: Leveraging Real-World Experimentability of LVDC Systems | RWTH Aachen University
- From Grids to Landscapes: DC Living Labs as Spatial Transformative Infrastructure for System Integration, Efficiency Gains and Applications in Buildings and Quarters | RWTH Aachen University
- Optimal Converter Dimensioning and Placement in MVDC Grid | Ilmenau University of Technology
- Towards Multivendor Multiterminal DC Distribution Grids: A Literature Review | RWTH Aachen University
- Investigation of power- and current-based droop voltage control with regard to the stability of the linearized system using a minimal example | Ilmenau University of Technology
- Load flow control and reactive power management with HVDC in the 110 kV distribution network | Zittau/Görlitz University of Applied Sciences
- Protecting bipolar LVDC-grids in TN-S grid form | Maschinenfabrik Reinhausen
- Battery-Buffered Triple-Active Bridge for Isolated AC-DC Grid Connection | RWTH Aachen University
- Characterization of Low-Voltage Insulated Wires for the Selection of Suitable Insulation Materials for LVDC Cables | Nexans
- Potential of DC-lines in medium-voltage networks with a simulation example from the MITNETZ Strom grid | Mitteldeutsche Netzgesellschaft Strom mbH
- Hierarchical Control and Dynamic Performance Analysis of a Hybrid Wind-Photovoltaic DC Microgrid with Battery Energy Storage under Transient and Blackout Conditions | Roma Tre University, Italy