

Participant information:

Registration is **only** possible online at www.dc-verteilnetztagung.de. The registration deadline is Tuesday, March 31, 2026.

The payment is only possible by invoice.

Participation Fee:

- ~~Registration by March 22, 2026 (early bird)~~
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

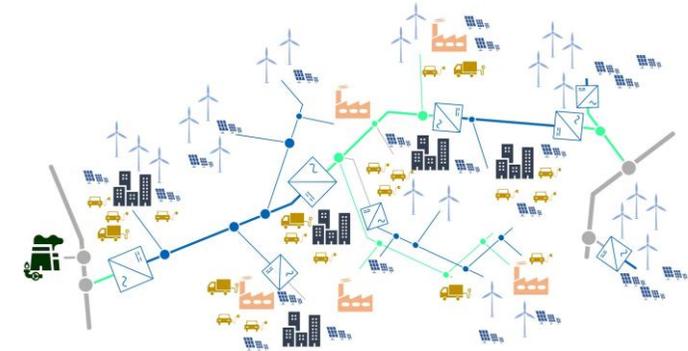
Conference Language: English

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
NETWORKS**
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UNIVERSITY**

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the:
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 Beyond Technical Feasibility: Distribution System Operators' Perspectives on the Implementation of DC Technology in Public Distribution Grids
TU Ilmenau
- 11:50 MVDC, will niche fixing be the case of use?
Hitachi Energy
- 12:10 A structured review of the economic assessment of MVDC grids
Fraunhofer IPA
- 12:30 Subsidy Design and Household Adoption of Hybrid AC/DC Homes: Evidence from a Discrete Choice Experiment
E.ON Research Energy Center
- 12:50 Lunch Break
- 14:00 A KPI-Driven Framework for the Strategic Siting and Sizing of MVDC Links in Established MVAC Distribution
TH Mittelhessen
- 14:20 Alternating Direction Method of Multipliers based Scheduling Approach for DC-Interconnectors between HVAC-Sub-Transmission Grids
TU Ilmenau
- 14:40 State-of-Grid-Based Control Concept for Communication-Free Coordination in Hybrid AC/DC Microgrids
Karlsruhe Institute of Technology
- 15:00 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

- 15:20 Design and Simulation of MVDC grids based on DC-INDUSTRY in the DC-POWER project for MW pilot plants
TH Ostwestfalen-Lippe
- 15:40 From Harmonics to DC Ripple- Break-even Ripple Levels for MV hybrid AC/DC Distribution Grids
TU Chemnitz
- 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
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
Technikum Vienná
- 11:25 Short-circuit fault characteristics considering travelling wave propagation in DC distribution networks
Dresden University of Technology
- 11:45 Experimentelle Untersuchung eines Niedervolt-DC- Verteilnetzes mit Hilfe eines Power-Hard-In-The-Loop Versuchstandes
TU Ilmenau
- 12:05 Planning and Setup of a PHIL Testbench for LVDC Converter Compatibility
ISEA, 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 | *ISEA, RWTH Aachen University*
- From Lab to Field: Leveraging Real-World Experimentability of LVDC Systems | *HumTec, 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 | *Institute of Landscape Architecture, RWTH Aachen University*
- Optimal Converter Dimensioning and Placement in MVDC Grid | *TU Ilmenau*
- Towards Multivendor Multiterminal DC Distribution Grids: A Literature Review | *E.ON Research Energy Center*
- Investigation of power- and current-based droop voltage control with regard to the stability of the linearized system using a minimal example | *TU Ilmenau*
- Load flow control and reactive power management with HVDC in the 110 kV distribution network | *Hochschule Zittau/Görlitz*
- Protecting bipolar LVDC-grids in TN-S grid form | *Maschinenfabrik Reinhausen*
- Battery-Buffered Triple-Active Bridge for Isolated AC-DC Grid Connection | *E.ON Research Energy Center*
- 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*