Participant information:

Registration is **only** possible online at www.dc-verteilnetztagung.de. The registration deadline is Tuesday, March 31, 2026. After receipt of your registration, you will receive an invoice as confirmation.

Participation Fee:

- **Registration by March 22, 2026 (early bird)**
  - €450
  - €400 for FEN Partners
- **Registration from March 23, 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

Scientific Board:

- 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

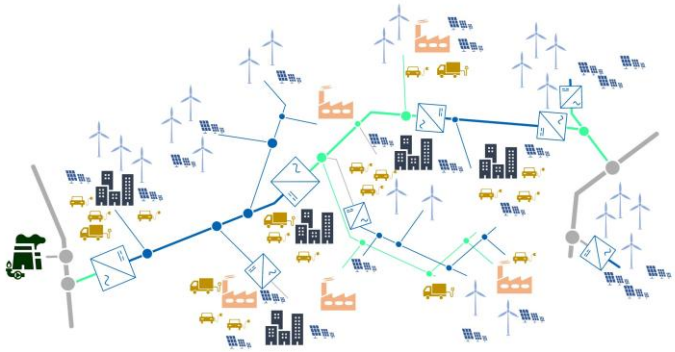
Conference Office:

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

RESEARCH CAMPUS
Public-Private Partnership for Innovation

With funding from the:
Federal Ministry of Research, Technology and Space

Invitation



3rd Conference on DC Distribution Grids

Innovations
Challenges
Perspectives

16-17 April 2026
Eurogress Aachen
Monheimsallee 48, 52062 Aachen

FLEXIBLE ELECTRICAL NETWORKS
RESEARCH CAMPUS

RWTH AACHEN UNIVERSITY

Conference on DC Distribution Grids

DC transmission technology has been successfully applied at the high-voltage level for many years. Its advantages have also been demonstrated in industrial settings, as exemplified by the DC Industry 1 and 2 projects.
The direct integration of renewable energy sources, as well as the connection of storage systems and loads to DC grids, has sparked increased discussion and a re-evaluation of the potential of DC technology for the distribution of electrical energy. Inspired by larger industrial installations, the shared use of DC infrastructure is becoming increasingly important for medium-sized enterprises. Furthermore, advancements in DC technology are opening up numerous new applications for the distribution of electrical energy at medium- and low-voltage levels.
The questions and challenges arising for components and systems in this context are presented at the conference, along with current solution approaches and ongoing developments.

Objective

The conference is aimed at research institutions, manufacturers, end-users, consulting firms, and other relevant organizations. DC distribution grids, from system-level considerations to individual components in various configurations, will be discussed in depth.
The conference provides a platform for presenting and discussing current issues in both practical applications and research. Lectures and poster presentations serve as stimuli for discussions on current and future challenges as well as potential solutions. Additionally, the event offers opportunities to exchange experiences in an open and collaborative atmosphere.

Preliminary Program

Thursday, 16. April 2026

08:00	**Registration & Welcome Coffee**
09:30	**Welcome & Introductory Kick-off**
10:00	**Keynotes**
11:30	**Session 1**
13:00	**Lunch Break**
14:00	**Session 2**
15:30	**Poster Session; Coffee break**
17:00	**End of the Formal Part of Day 1**
18.00	**City Tour**
19:30	**Conference Dinner**

Friday, 17. April 2026

08:00	**Welcome Coffee**
08:30	**Welcome Speech**
09:30	**Session 3**
10:30	**Coffee Break + Poster Session**
11:15	**Session 4**
13:15	**Lunch Break**
14:00	**Session 5**
15:00	**End of the Event**

Key Topics

1. System Characteristics of DC Distribution Grids
- System layout
- Multi-terminal system operation and power flow control
- Voltage and current quality in DC grids
- Multi-vendor DC systems
- DC currents in the ground
- Operational concepts for hybrid AC/DC systems
- Integration of renewable energy converters and storage systems
- Control and stability analysis

2. Protection Concepts for DC Distribution Grids
- Fault detection
- Personnel safety
- Fault clearing depending on grid configuration
- Reliability and resilience

3. Components of DC Distribution Grids
- Requirements and lifetime of insulation systems
- Current-carrying capacity and heating
- Monitoring and diagnostics of components

4. DC Distribution Grids in Practice
- Current standards and regulations
- Industrial applications
- Applications in power supply

5. Economic Assessment of DC Systems
- Life-cycle costs
- Cost comparison between AC and DC systems