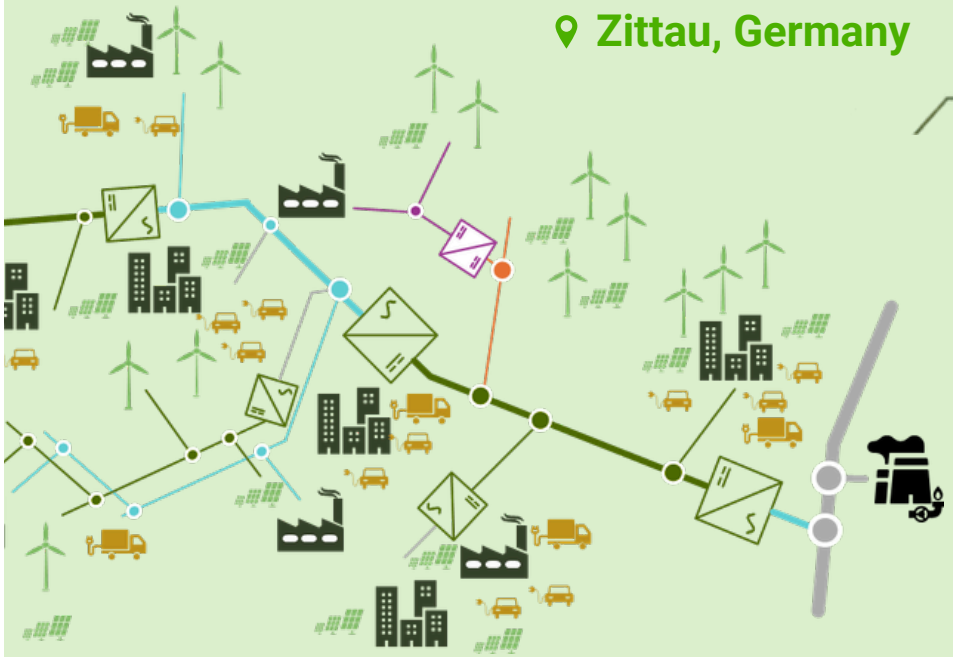
CALL FOR ABSTRACTS

4th Conference on DC Distribution Grids

22.-23. April 2027

Zittau, Germany



SUBMISSION TIMELINE

Deadline submission:
15.12.2026
approx. 500 words, DOCX or PDF to
info@dc-verteilnetztagung.de

Notification acceptance:
05.01.2027

Submission manuscripts:
12.02.2027

We invite you to submit your abstracts and contribute to the discussion on technologies, applications, challenges, and solutions shaping the future of DC distribution.

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DC CAMPUS

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KEY TOPICS

System Characteristics of DC Distribution Networks

- Multi-vendor DC systems
- Multi-terminal system operation and power flow control
- Operational concepts for hybrid AC/DC systems
- Voltage and current quality in DC networks
- Integration of renewable energy converters and storage systems

Protection Concepts for DC Distribution Networks

- Fault detection
- Health and safety aspects
- Fault clearing principles and strategies
- Reliability and resilience

Components of DC Distribution Networks

- Requirements for insulation systems
- Load capacity and thermal behavior
- Principles and industrial solutions for components
- Aging and lifetime of components
- Monitoring and diagnostics of components

DC Distribution Networks in Practice

- Current standards and regulations
- Industrial applications
- Applications in power supply

Economic Assessment of DC Systems

- Life-cycle costs
- Cost comparison between AC and DC systems

ABOUT THE CONFERENCE

DC technology is gaining momentum beyond traditional electrical energy transmission and distribution. The growing integration of renewable energy sources, energy storage, power electronics, and DC loads is creating new opportunities also for efficient and flexible electricity distribution at medium- and low-voltage levels. From industrial DC networks and shared infrastructure to emerging applications and innovative system concepts, DC distribution is becoming an increasingly relevant building block for future energy systems. At the same time, new challenges arise for grid architectures, components, protection, control, interoperability, and system integration.

The DC Distribution Grids Conference brings together researchers, manufacturers, system operators, end-users, consultants, and other experts to exchange experiences, present latest developments, and discuss practical solutions for today's and tomorrow's DC distribution systems.

Conference Venue: Zittau
Conference Language: English

General Notice:
The event is planned to take place in person.
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.

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