

# Call for Papers

## One Grid – Technological Innovations for Integrated Power Systems



# CIGRE Symposium 2027

Heidelberg, Germany · April 27–30, 2027

## Symposium Theme

CIGRE's 105-year experience of integrated grid complexity will be showcased with technical and practical applications for System Operators, Experts, and Manufacturers to engage actively in CIGRE's Symposium in Heidelberg – **Distribution and Transmission, working together, as One Grid.**

Distribution and Transmission are blurred without boundary for today's One Grid. Power flows are becoming more dynamic and less predictable, while system inertia, fault levels, and voltage control characteristics are changing across all voltage levels. This unprecedented transformation puts Distribution at the core of the Energy Transition, intertwining the challenges of Transmission, Supply, and the Grid Edge.

**Join us at the CIGRE international symposium on the Energy Transition in Heidelberg!**

## Programme

The **tutorials** and **symposium sessions** will take place from *Tuesday, April 27* to *Thursday, April 29, 2027.*

The accompanying **exhibition** will be open during the main symposium, on *Wednesday, April 28* and *Thursday, April 29, 2027.*

A **technical tour** is scheduled for *Friday, April 30, 2027.*

Detailed information on the programme, the working group sessions, the technical tours and the accompanying tours can be found at [www.cigresymposium2027.de](http://www.cigresymposium2027.de).

The CIGRE Symposium is held in cooperation with the German Conference on Power Systems "ETG Kongress", which will take place at the same venue on *April 26–27, 2027.* For more information, please visit [www.etg-kongress.com/de](http://www.etg-kongress.com/de).

## Symposium Venue

Heidelberg is one of Germany's most enchanting cities, famous for its historic Old Town, romantic castle, and vibrant university atmosphere.

As a hub for science, culture, and global collaboration, it also offers the perfect blend of tradition and cutting-edge innovation.

Also known for its riverside views of the picturesque Neckar River, Heidelberg is conveniently located south of Frankfurt, making it reachable in less than an hour by car or train from Frankfurt International Airport and many national and international destinations.

All technical sessions and the exhibition will be held at the Heidelberg Congress Center, which is characterised by its visionary architecture, and located just steps from the main station.



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## Paper Publication

Papers will be available to download one month in advance of the symposium for registered participants as described in [www.cigresymposium2027.de](http://www.cigresymposium2027.de). One month after the symposium, papers can be purchased on [www.e-cigre.org](http://www.e-cigre.org). CIGRE Science & Engineering [CSE] journal will publish the best papers selected from the symposium. The Symposium Technical Committee will produce a summary report of the symposium for publication in Electra.

## Submission of Synopses

Participants wishing to present and publish papers must submit synopses by following instructions on [www.cigresymposium2027.de](http://www.cigresymposium2027.de) where the synopses and paper templates are also available. All synopses, papers, and presentations must be in English. Please note that at least one author should present the paper at the symposium.

## Deadlines

Deadline for Synopses in ConfTool . . . . . **November 02, 2026**  
Selection of synopses by SCs  
& information to authors . . . . . **November 30, 2026**  
Deadline for full papers . . . . . **February 7, 2027**  
Feedback to authors of full papers . . . . . **March 7, 2027**  
Final papers to ConfTool . . . . . **March 29, 2027**

## Registration

Information for registration will be available at [www.cigresymposium2027.de](http://www.cigresymposium2027.de)

## Preferential Subjects

The Preferential Subjects below indicate the focus of the expected contributions (Study committees involved in brackets):

### PS1 – One Grid

- Planning and Operation of Distribution Systems (C5, C6, D2)
- Power Quality and Safety (C6)
- Protection, Automation and Control for High Penetration of Distributed Energy Resources (B3, B5, C6, D2)
- Customers, Regulation, Market Design and Risk Management (C5, C6)

### PS2 – Grid Equipment

- Impact of Bidirectional Power Flow and Overload (A2, A3, B2, B3, B5, C6)
- Substations as Hubs for Power and Information between Transmission and Distribution (A3, B3, B5, C5, C6, D2)
- Evolutions of Asset Management, Monitoring and Environmental Requirements (A2, A3, B2, B3, B5, C6, D2)

### PS3 – System Management

- Flexibility, System Stability, Coordinated Voltage and Congestion Management (A2, A3, B2, B3, B5, C6)
- Interfaces, Data Models and Communication Network Architecture (B3, B5, C5, C6, D2)
- Physical Resilience and Cybersecurity (A2, A3, B2, B3, B5, D2)

## Study Committees

The following CIGRE Study Committees will participate in the symposium:

- A2 Power Transformers and Reactors
- A3 Transmission and Distribution Equipment
- B2 Overhead Lines
- B3 Substations and Electrical Installations
- B5 Protection and Automation
- C5 Electricity Markets and Regulation
- C6 Active Distribution Systems and Distributed Energy Resources
- D2 Information Systems Telecommunications and Cybersecurity



### Deutsches Komitee der CIGRE beim VDE

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