Call for Papers

CIGRE 2027 International Symposium

The Queen Sirikit National Convention Center (QSNCC), Bangkok, Thailand • 8-12 November, 2027





Shaping the Future of Grids - Resilience, Intelligence, and Innovation for the Energy Transition

CIGRE, the world's leading non-profit association for the power sector, representing a global community of more than 20,000 experts across the utility, transmission, and distribution industries, welcomes you to the CIGRE 2027 International Symposium in Bangkok, Thailand.

This prestigious Symposium features high-level expert sharing sessions, where senior professionals exchange the latest industry knowledge, breakthrough research, and forward-looking insights shaping the future of power systems.

Unlike a traditional tradeshow, the CIGRE Symposium offers a content-driven, deeply technical, and highly selective programme. Attendees participate in rigorously reviewed technical paper presentations, hands-on tutorials, interactive workshops, and inspiring keynote sessions delivered by renowned leaders from around the world.

Building on the momentum of the CIGRE International Symposium 2025, which welcomed over 2,300 senior participants, and the legacy of the flagship CIGRE Paris Sessions, the CIGRE International Symposium 2027 in Bangkok will deliver an unparalleled platform for collaboration, knowledge exchange, and innovation for the global power and energy community.

SYMPOSIUM STEERING COMMITTEE

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Member SC C5	Yannick Phulpin
Member SC D1	Simon Sutton

KEY DATES

Call for papers	June 2026
Opening of the synopses submission portal	Sept. 7, 2026
Deadline for synopses uploading	Jan. 11, 2027
Opening of registrations	**Spring 2027**
Selection of synopses by SCs and information to authors	Feb. 14, 2027
Deadline for Full Papers uploading	July 25, 2027
Feedback to author of full papers	Sept. 12, 2027
Final papers	Sept. 26, 2027
Final papers on ConfTool	Oct. 10, 2027
Power Point presentation	Oct. 24, 2027
Bangkok symposium	Nov. 8-12, 2027

PREFERENTIAL SUBJECTS

PS1 RENEWABLE ENERGY INTEGRATION, STORAGE, AND CROSS-BORDER INTERCONNECTIONS

B3, B4, C4, C5	Grid-forming Battery Energy Storage Systems (BESS), hybrid storage solutions and other grid-enhancing technologies to improve power system strength, stability and resilience
C2, C4, C5, D2	Grid operational codes, TSO–DSO coordination, big-data based forecasting for congestion management and situational awareness. Enhanced techniques for TSO-DSO co-simulation and data exchange
C4, C5	Enhanced analysis methods and solutions to address emerging instability phenomena, system strength, flexibility and resilience challenges in future power systems
C1, C5	Planning and economics of Renewable Energy (RE) integration, including energy policy, interconnections, and cross-border power exchange
D1	Advanced materials for energy storage and enhanced operational flexibility (e.g. improved thermal, electrical, or mechanical capabilities)
C1, C4, C5	Integration of hydrogen and ammonia in power system planning, enabling cross-sector decarbonization, and their dynamic interaction with the power system

PS2 DIGITALIZATION AND SMART MONITORING FOR THE ENHANCEMENT OF POWER SYSTEMS

A2, B2, B4, C2, C4, D1, D2	Application of Artificial Intelligence and Machine Learning (AI/ML) and advanced data analytics for transmission and distribution online monitoring, predictive maintenance, fault detection, power quality and power system stability
B2, B3, B4, D1, D2	Innovative asset management and diagnostics, including Building Information Modeling (BIM), drone inspection, and Internet of Things (IoT) sensors, to extend the life cycle of transmission and distribution equipment
B4, D2	Cybersecurity and communication technologies for secure and reliable operation of transmission and distribution grids
B3, D2	Smart substations and advanced electrical installations for digitalized grid operation

PS3 GRID INFRASTRUCTURE FOR FUTURE ENERGY TRANSITION AND DECARBONIZATION

A2, B2, B4, D1	Advanced transmission technologies, materials and testing methodologies, including HVDC, multi-terminal DC, power semiconductor device and composite-core conductors
A2, B2, B3, C1, C2, C3, C4, D1	Grid resilience and adaptation to extreme climate events (wildfires, storms, floods, lightning, geomagnetic storms, etc.) including methods of analysis, design innovations, new materials, and restoration strategies
C1, C4	Electric Vehicles (EV) fast charging and smart charging, reverse power flows, and their implications for grid capacity planning. Impact of other large inverter-based loads (IBLs), such as Data Centres (DC), on planning and dynamic performance of power systems
A2, B3, C3, D1	Sustainable grid projects, including eco-design, sustainable materials, certificates of origin, and low-carbon solutions
B3	Substation modernization and integration of advanced equipment for sustainable transmission and distribution development
A2, B2, B3, B4, C1, C2, C3, C4, D1, D2	Asset management strategies under high renewable penetration, including inspection, predictive maintenance, refurbishment planning, climate stress and aging infrastructure – balancing reliability, cost, and sustainability
B2	Dynamic line rating (DLR), online measurement, and advanced overhead line innovations to support high renewable penetration

PARTICIPATING CIGRE STUDY COMMITTEES (SC)

SC A2 Power Transformers & Reactors
SC B2 Overhead Lines **(co-lead)**
SC B3 Substations & Electrical Installations
SC B4 DC Systems & Power Electronics
SC C1 Power System Development & Economics
SC C2 Power System Operation & Control
SC C3 Power System Sustainability & Environmental Performance
SC C4 Power System Technical Performance
SC C5 Electricity Markets & Regulation
SC D1 Materials & Emerging Test Techniques
SC D2 Information Systems Telecommunications & Cybersecurity **(co-lead)**



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PROGRAM

The full program will be available closer to the symposium and will include:

- CEO Events
- Keynotes, Business and CEO Panels
- Paper Presentations
- Tutorials, Workshops
- Women in Energy (WiE) Event
- Next Generation Network (NGN) Events
- A large International Technical Exhibition
- Best paper and best NGN papers awards

A Welcome reception, Banquet and other events will allow the participants to network. The symposium will end on the last day with a technical visit.

Individual meetings of **Study Committees** and **Working Groups** will take place before and in conjunction with the symposium. These are also unique opportunities for technical exchanges.

Information on activities for accompanying persons will be available before registration opens.

SUBMISSION OF SYNOPSES

The quality of the papers is initially assessed on the basis of a synopsis. To this end, the synopsis must summarize the results and advances that will be described in the paper. A synopsis that only describes the context of the research will be rejected.

Authors must clearly indicate the Preferential Subject and the Study Committee of their abstract when making a submission.

Study Committees involved in the symposium will manage the process of full Papers review with a Peer Review Panel composed by experts. Authors may be asked to make changes or adjustments to their papers. Final acceptance or non-acceptance is duly notified to authors.

Participants wishing to present and publish papers should submit synopses by following the instructions on the website, where the synopses and paper templates are also available. (Information coming soon)

All synopses, papers, and presentations must be in English.

Please note that at least one author must present the paper at the symposium.

PAPERS PUBLICATION

Papers will be available to download one month in advance of the symposium for registered participants. One month after the symposium, papers will be available on www.e-cigre.org free of charge for CIGRE members. The CIGRE Science & Engineering (CSE) journal will publish the best papers selected from the symposium. The Technical Committee of the Symposium will produce a summary report of the symposium for publication in ELECTRA.

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