



CALL FOR PAPERS

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IMPORTANT DATES

February 27, 2026

Deadline for submission of Synopsis
(via website) / Registration Opens

April 10, 2026

Notification of acceptance

June 30, 2026

Deadline for submission
of final papers

August 31, 2026

Deadline for submission
of final presentations

Papers are invited on all topics of interest falling within the conference theme and especially papers with the following focus:

Group A – Equipment

- A1** Power generation and electromechanical energy conversion
- A2** Power transformers and reactors
- A3** Transmission and distribution equipment

Group B – Technologies

- B1** Insulated cables
- B2** Overhead lines
- B3** Substations and electrical installations
- B4** DC systems and power electronics
- B5** Protection and automation

Group C – Systems

- C1** Power system development and economics
- C2** Power system operation and control
- C3** Power system sustainability and environmental performance
- C4** Power system technical performance
- C5** Electricity markets and regulation
- C6** Active distribution systems and distributed energy resources

Group D – New Materials and IT

- D1** Materials and emerging test techniques
- D2** Information systems telecommunications and cybersecurity

Grid Modernization: Enabling Large Loads, Advanced Storage and Smart Technologies for a Secure and Resilient Energy Future

The **2026 XXIst Annual CIGRE Conference & Exhibition on Power Systems** will bring together the key players in the electric power systems sector: business leaders, system operators, manufacturers, engineers, policy makers, regulators and academics. The conference is a unique forum to share exciting new research, to raise issues and awareness, to discuss future directions, and to network with leading professionals.

4 Innovative Panels

CEO – Business Leaders – Next Generation – Women In Energy

5 Topics of Special Interest

1. Interconnection of Large Loads

- a. Modeling, load-profile, forecasting and real-time monitoring
- b. Interconnection standards and regulatory frameworks
- c. Impacts on power grid stability and power quality
- d. Grid control techniques for managing large loads
- e. Optimal sizing and location of large loads in the power grid

2. Grid-Enhancing Techniques and Technologies

- a. Application of grid enhancing technologies (GETs) to optimize system capacity (e.g. DLR, advanced conductors)
- b. Artificial intelligence (AI), machine learning (ML) and advanced analytics applications in power industry
- c. Substation protection and control digitization, centralization and virtualization
- d. Wide area protection & control technologies including Remedial Action Schemes (RAS)
- e. Voltage and Frequency management techniques and technologies
[e.g. SVCs, STATCOM, E STATCOM, Synchronous condenser]

3. Advanced Storage

- a. Grid forming controls and applications
- b. Optimal placement and sizing of BESS for transmission grid support
- c. BESS technical requirements for interconnection, operation, maintenance and safety
- d. System effective grounding and protection with BESS facilities
- e. Power quality impacts and solutions

4. Secure and Resilient Future

- a. Strategies and technologies to extend the service life of existing assets and reduce costs
- b. Managing increased stress and loading on aging assets
- c. Disaster response for rapid restoration
- d. Wildfire mitigation technologies and programs
- e. Physical and cyber security for substations and control centers
- f. Automated techniques for line inspection and condition assessment

5. Distribution Management

- a. Integrated Transmission and Distribution planning
- b. DER interconnection standards and regulatory framework
- c. DER modeling and forecasting
- d. Advanced voltage control methods for distribution systems with high DER penetration
- e. Microgrid design and operation for distribution systems

Submissions

The submission is now open! Authors should submit a one-page Synopsis through the online system on www.cigre.ca. The submitted Synopsis will go through a peer review process. Upon Synopsis acceptance, a 6 to 8 page paper in CIGRE format must be submitted for the final contribution. Accepted final contributions will be included in the conference proceedings and papers will be published in the online CIGRE library (www.e-cigre.org), provided the contributions are fully registered by at least one author and presented in person at the conference. See the web site www.cigre.ca for the submission instructions.

-  **Best Student Paper Award**
-  **NGN Best Paper Award**
(young professional up to 35 years old)
-  **Best Paper Overall Award**

For more information, please contact the Technical Committee Co-Chairs
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