

# CIGRE UK Study Committee C1 Power System Development and Economics

## Summary and Outlook



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For power system expertise



**cigre**  
Next Generation  
Network

# Activities for 2025



Next Technical Panel Meeting	10/02/25 – 14/02/25	
UK C1/NGN Webinar	✓ 22 Jan 2025	Webinar
UK C1 Liaison Meeting	✓ 03 Apr 2025	TBC Hybrid
UK C1/Other Liaison Meeting	Q3 2025	TBC Hybrid
Factory/Site Visit C1	Q2 2025	In-Person

## CIGRE 2025 International Symposium In Canada 2025



**Grid Enhancement, Strategic Planning, Technological Innovation  
and Climatic Adaptation for Resilient Future Energy Systems**

- A1** Power generation and electromechanical energy conversion
- A2** Power Transformers & Reactors
- A3** Transmission & Distribution Equipment
- B2** Overhead Lines
- B3** Substations & Electrical Installations
- B4** DC Systems & Power Electronics
- C1** Power System Development & Economics
- C3** Power system sustainability and environmental performance
- C4** Power System Technical Performance
- C5** Electricity Markets & Regulation
- C6** Active Distribution Systems & Distributed Energy Resources

## PREFERENTIAL SUBJECTS



# C1

## Power system development & economics

### PS2: Strategic investment decisions in the context of the energy transition

- › Optimal portfolio mix of transmission, generation, storage and non-wire solutions for ensuring adequacy, resilience and flexibility, and relevant governance framework.
- › Investment economics and risk analysis in the new energy landscape.
- › Sustainable asset management practices, especially for aging infrastructures.



### PS1: Holistic planning of an integrated energy system for the energy transition

- › Sustainable scenarios encompassing gases, heat, mobility, IT (data centres) as loads and as flexibility sources.
- › Planning methodologies and modelling targeting net zero while ensuring adequacy of resources and increased resilience .
- › Prioritisation of asset management plan and allocation of capital, including role of private investments in transmission networks .

### PS3: Planning the cyber-physical system

- › Impact of digitalisation on power system planning: role of AI, digital twins, big data.
- › Integration of physical, cyber and electrical security with asset management techniques.
- › Case studies of successful applications of modelling and digital tools in power system planning.



## CALL FOR PAPERS SESSION 2026

### KEY DATES

JULY 7, 2025	OCTOBER 20, 2025	JANUARY 12, 2026	APRIL 10, 2026	MAY 11, 2026	JUNE 29, 2026	AUGUST 7, 2026
DEADLINE TO SEND SYNOPSES TO NATIONAL COMMITTEES	SYNOPSES NOTIFICATION OF ACCEPTANCE	DEADLINE TO SEND FULL PAPERS TO NATIONAL COMMITTEES	DEADLINE TO SEND REVISED VERSION OF FULL PAPERS	FULL PAPERS NOTIFICATION OF ACCEPTANCE	DEADLINE FOR POSTER PRESENTATIONS	DEADLINE FOR CONTRIBUTIONS AT GROUP DISCUSSION MEETINGS

# PARIS

FRANCE

# SESSION 2026

PALAIS  
DES  
CONGRÈS

## 23-28 AUGUST



GROUP DISCUSSION MEETINGS

POSTER SESSIONS



# End – Refreshments & Networking

60 minutes



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