



**CALL FOR NOMINATION FOR
CANADIAN REPRESENTATIVE FOR CIGRE STUDY COMMITTEE C5
ELECTRICITY MARKETS AND REGULATION
FOR THE TERM 2024-2026**

This document describes the criteria for nomination of a CIGRE Canada representative for Study Committee C5 – *Electricity Markets and Regulation*.

BACKGROUND

The current SC representative for C5 will end his mandate after the 2024 CIGRE Paris Session. To continue Canadian participation and representation in this key CIGRE Study Committee, we are soliciting interested members provide their resume and a cover letter describing their interest and ability to commit to representing Canada for the term required.

Responses are required by January 22, 2024, with selection to be completed by January 29, 2024.

MISSION

Study Committee C5 bridges the gap between engineering, economics, and regulation. It analyses the impacts of different approaches to markets, regulation, and differing market structures (Institutions, participants, and stakeholders) on the planning, operation, and regulation of electric power systems. Examining the role of competition and regulation in the electricity industry is important for the orderly transition of the power system as well as improvements to its end-to-end efficiency.

STUDY COMMITTEE C5 CURRENT ACTIVITIES

Changes in regulatory roles and jurisdictional regulation related to the interaction between the transmission system and the distribution system.

The role of markets and regulation regarding:

- integration and coordination of distributed energy resources and new technologies;
- wholesale market price formation, including emissions pricing and the impact of non-wholesale market participants;
- sector integration between gas (including renewable gases) and electricity;
- validation of low emission technologies;
- impact of emerging technologies on market (and system) operations;
- market clearing procedures, techniques and principles used to take advantage of the flexibility of aggregating large numbers of end-users;
- potential Market rule changes to address changes in traditional ancillary service products to cater for the changes in the supply and demand for electricity;
- generation and demand flexibility to manage intermittent supply;
- incentivizing system strength and inertia in energy systems.



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MAIN AREAS OF ATTENTION

- Market structures and products such as physical and financial markets and the interaction between them, contracts, internationally integrated markets. Emerging technologies, including renewable gases, and sector coupling.
- Techniques and tools to support market actors such as demand and price forecasting profit estimation, financial risk management etc.
- Regulation and legislation such as regulation objectives, extension and limits, price regulation of transmission, and ancillary services, transmission/distribution coordination and interactions, international harmonization, environmental and regulatory objectives etc.
- Evolution of markets and regulation from wholesale transmission focus to include retail distribution. The increasing interaction between regulation and markets throughout the electric power system value chain and the ability of markets and regulation to cater to rapid evolutions in dynamic / variable generation, demand and storage technologies and behaviour.
- Coordination of regulation, funding and trading arrangements for new assets and technologies expansion in new market structures, including the trend of decentralization of operations with distributed applications; the remaining assets coexisting with the retirement of other in utilities; the consideration of legacy trading arrangements in the new market arena.

RESPONSIBILITIES OF THE CANADIAN REPRESENTATIVE

Responsibilities are:

- To participate and bring to the Study Committee the experience that need to be considered when establishing Working Groups.
- To participate in the review of the reports produced by the Working Groups. However, this task is a coordination of collecting comments from Canadian experts in the subject matter and presenting them to the Working Group convenors.
- To participate in the Study Committee meeting (once per year). It is important to attend the meeting to be able to provide our Canadian experience and get first-hand information from the members of the Study Committee.
- To disseminate the information from the Study Committee to the Canadian members of CIGRE who are interested in the field of SC C5. The names of the members will be provided by CIGRE Canada in addition to the candidate's knowledge of the Canadian experts in the industry.



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- To approve Canadian members to the Study Committee Working Groups.
- To participate in Working Groups activities.
- Responsible for succession planning, which includes making recommendations for the next SC Representative to the Canadian National Committee.

The role of the Canadian representative is an important role, and it provides the candidate with the first-hand access to the latest technical information at an international level. It also allows the candidate to influence the decisions to be taken by the Study Committee internationally. It also provides the candidate and their organization with international exposure.

TERM OF OFFICE

The term of office of members is two (2) years, to be renewed no more than twice in the same Study Committee.

This term limitation applies also when a member has changed status: the total membership term (Regular and Observer) within a given Study Committee cannot be more than six (6) years.