

Decarbonization

Chair in Decarbonization



The fight against climate change is one of the defining challenges of our time. Global GHG emissions must be cut by more than half by 2030 in order to avoid the most dangerous impacts of climate change. The magnitude of this challenge has been brought into stark relief by the Covid-19 pandemic, which only led to a 7% reduction in global emissions in 2020. In order to achieve global decarbonization, an interdisciplinary approach is necessary. Decarbonization consists of reconfiguring socio-economic and technical systems centered on fossil fuels and unsustainable land-use patterns in order to reduce GHG emissions.



INSPIRING RESEARCH

The Chair aims to improve understanding of the social, economic and political conditions favoring decarbonization, both in developed and developing countries, in order to catalyze global cooperation on climate change. Its research axes are: (1) Evaluation of the effectiveness of decarbonization initiatives in the energy, transport and land-use sectors; (2) Comparative political economy of decarbonization; and (3) Measuring progress in regional and international cooperation on climate change.



BENEFITS FOR SOCIETY

- Develop tools such as techno-economic models to evaluate the effectiveness of decarbonization efforts in the energy, transport and land-use sectors.
- Generate knowledge on social, economic and political aspects influencing the effectiveness of decarbonization efforts, both in developed and developing countries.
- Bridge analytical approaches for decarbonization between the social sciences, natural sciences as well as engineering.
- Measure the evolution of regional and international cooperation on decarbonization.
- Co-produce and disseminate knowledge by bringing together experts from different research traditions, government, the private sector and civil society.



EXAMPLE PROJECTS

Joint Clean Climate Transport Research Partnership (JCCTRP)

The JCCTRP is an interdisciplinary research partnership focused on climate and transportation policy issues in Quebec, California and other jurisdictions, with an emphasis on modeling and comparative policy analysis. More information is available at jcctrp.org

Measuring the evolution of climate change cooperation

This project aims to improve understanding of climate change cooperation through a combination of technical policy analysis and public opinion research.

Energy transitions in East Africa

This project combines traditions of energy systems modeling, sustainability transitions and comparative political economy in order to better understand the decision-making process for energy transitions in East Africa.

Effectiveness of climate finance instruments

Drawing on empirical field research, this project aims to understand the effectiveness of climate finance instruments for the transition to low-carbon development.

United Nations Conference

The Chair will support the organization of UQAM's delegation to the annual Conference of Parties (COP) to the United Nations Framework Convention on Climate Change (UNFCCC).

PARTNERSHIPS

Knowledge produced through the Chair is based on the engagement of partners at all stages of the research process, including partners in both developed and developing countries. The Chair brings together partners from the social sciences, natural sciences, engineering as well as members of government, the private sector and civil society in the co-production of knowledge.

KEYWORDS

Decarbonization | Energy transitions | Low-carbon development | International and regional cooperation | Comparative politics | Techno-economic modeling

TO FIND OUT MORE

UQAM Strategic Research Chair
Chair in Decarbonization

École des sciences de la gestion (ESG)
Université du Québec à Montréal (UQAM)
Québec, Canada

Chair holder
Mark Purdon, professor
Department of Strategy, Social and Environmental
Responsibility

☎ 514-987-3000 poste 2594
✉ decarbonisation@uqam.ca
🌐 decarbonisation.uqam.ca

recherche.uqam.ca

🐦 [mdc_uqam](https://twitter.com/mdc_uqam)