



**Québec:**  
A Partner for  
Decarbonizing  
the American  
Economy

Québec

connected



Québec 

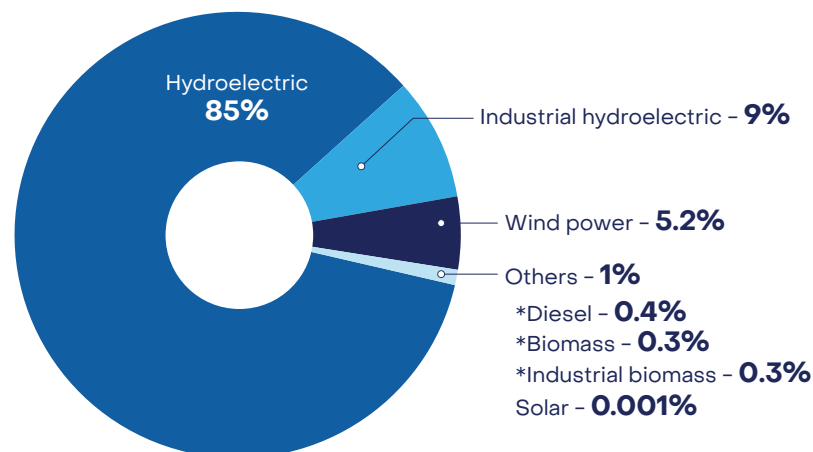
# A Wealth of Affordable Renewable Energy



- Québec is a leader in hydroelectric production, power transmission, and renewable energy integration. **As the world's fifth largest electricity producer**, Québec is equipped with a reliable power grid and world-class expertise.
- We boast some of the most competitive electricity rates in North America, which have helped several industries flourish and maintain low production costs and low carbon outputs (aluminum, pulp and paper, aerospace, mining and metals processing, data centers, etc.).
- Québec has been a source of clean, reliable, and competitively priced electricity for the United States since 1983. In 2020, Québec exported over 23 TWh of power through cross-border transmission lines. Québec is well placed to become the green battery of North America.
- The new Champlain-Hudson Power Express transmission line from Québec to Queens, New York will reduce annual carbon emissions by 3.4 million metric tons—equivalent to removing 28% of cars from New York City's streets.

## Energy Generation in Québec by Fuel Type (2020)

Total production: 207 TWh



Source: Canada Energy Regulator

Note: \*Electric power generation, monthly generation by type of electricity.

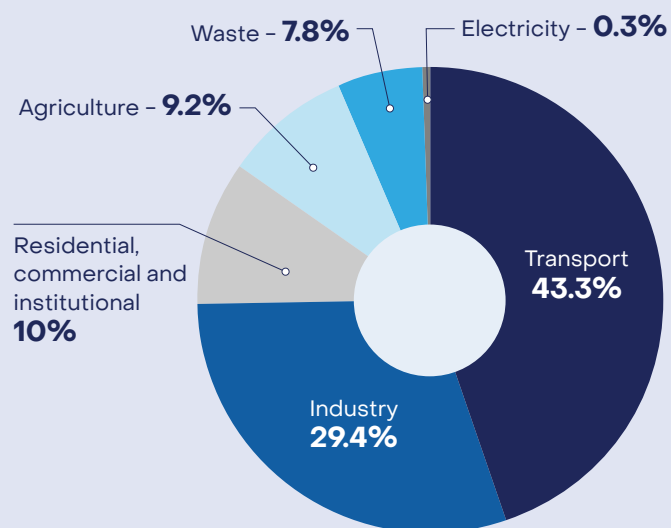
More than 99% of the electricity produced in Québec comes from clean energy sources. Wind power has developed rapidly in recent years and offers significant potential for growth.

Québec's electricity mix is one of the cleanest in the world, alongside Iceland and Norway.

➤ Québec is committed to meeting the targets set out by the 2015 Paris Agreement and is **proud to have the lowest GHG emission rate per capita among Canadian provinces and U.S. states**. Québec aims to achieve its energy transition by electrifying its entire economy, and by implementing the following strategies and action plans:

- The **2030 Plan for a Green Economy** was unveiled in November 2020 and sets out the electrification and climate change policy framework engaging Québec in an ambitious, multisectoral project. The objective is to become **carbon neutral by 2050**.
- The **2018-2023 Energy Transition, Innovation and Efficiency Master Plan** seeks to cement Québec's energy transition and to establish a clear path towards a decarbonated economy.

### GHG Emission Distribution in Québec by Industrial Sector (2019)



Source : Ministère de l'Environnement et de la Lutte contre les changements climatiques du Québec.

Québec fosters multilateral dialogues to tackle climate change and is a member of several regional climate change collaboration networks. These include:



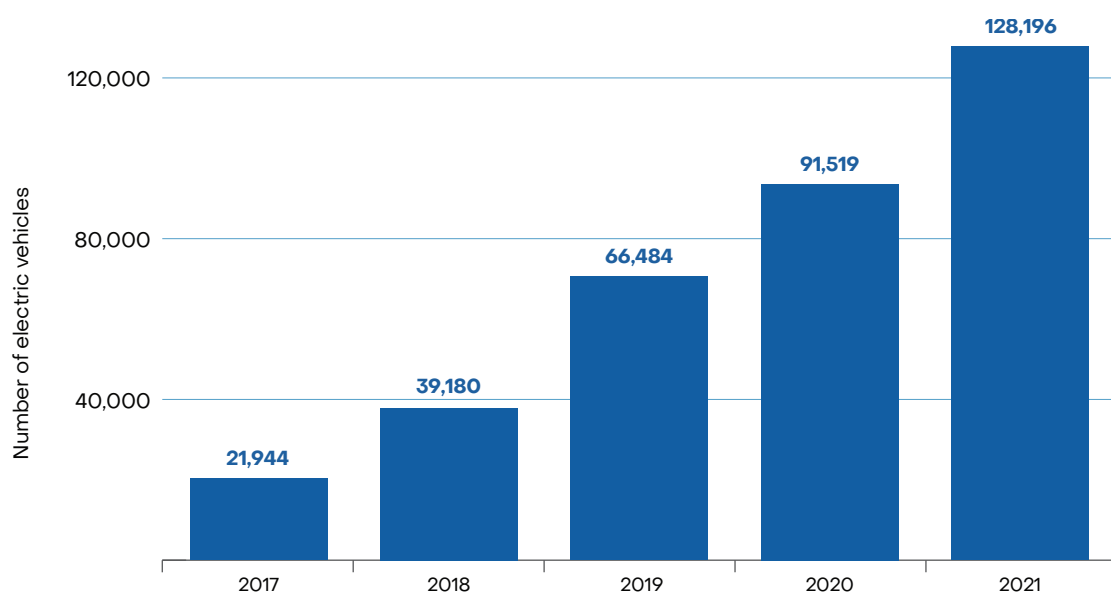
## Electromobility: Powering the Electric Revolution



Thanks to our solid clean energy capabilities, Québec has the winning conditions required to develop electric transportation. We established a **Plan for Electrification of Transportation** and banned **the sale of new gasoline-powered vehicles as of 2035**.

- Québec boasts **the second highest per-capita EV sales in North America**, trailing just behind California. In Canada, Québec is a forerunner in EV sales: almost half of all electric vehicles found on Canadian roads are in Québec.
- Over the past five years, the number of electric and hybrid vehicles registered in Québec has increased nearly sixfold.

### Electric and Hybrid Vehicles Registered in Québec



Source: Société de l'assurance automobile du Québec.

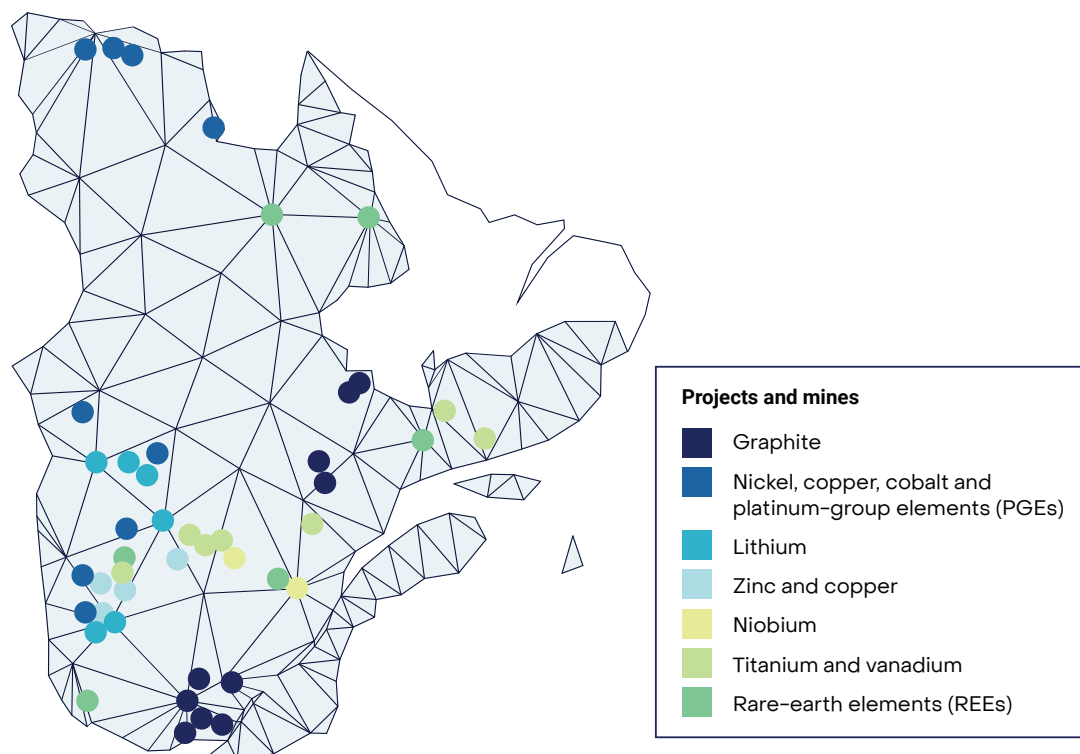
- In 2018, Québec adopted a zero-emission vehicle standard, that seeks to spur the supply of zero-emission and low-emission vehicles, to afford Québec consumers access a greater number and a broader range of plug-in motor vehicles, which are the cleanest and most technologically advanced on the market.
- Québec is one of the founding members of the American, Canadian, and European Zero-Emission Vehicle Alliance (ZEV Alliance), a collaboration of **national and subnational governments** working together to promote ZEV best practices across jurisdictions.
- The U.S.'s new *Clean Vehicle Tax Credit* incentivizes a **North American** value chain for electric vehicles and their batteries.

# A Land Rich in Critical and Strategic Minerals



- One fifth of Canada's diversified mineral resources and mining production is based in Québec. **Our subsurface harbors an incredible wealth of strategic minerals required for battery manufacturing.** These minerals include cobalt, rare-earth elements, platinum-group elements, graphite, lithium, and nickel.
- The government's goal is for Québec to become a leader in the production, transformation, and recycling of critical and strategic minerals by working in partnership with local and Indigenous communities. **The Québec Plan for the Development of Critical and Strategic Minerals 2020–2025** sets out the actions planned to actively contribute to the global technological and energy transition, and the creation of wealth in a greener economy.
- Québec is renowned for our **longstanding expertise in the development of lithium-ion batteries.** Hydro-Québec's Center of Excellence in Transportation Electrification and Energy Storage works with industrial partners from across the globe.
- Considered as domestic under the *Defense Production Act*, minerals from Québec play a key role in securing North America.

## Key Québec Critical and Strategic Minerals



Source: Ministère de l'Énergie et des Ressources naturelles du Québec.



- From mining and manufacturing EV components to their assembly and research, the Government of Québec is making significant investments to **promote the development of electric transportation** of people and goods. In fact, several visionary Québec-based companies are already developing electric-powered city and school buses, trucks, ATVs, boats, motorcycles, and charging stations, among others.
- **Québec's Battery Industry Development Strategy** promotes the growth of a full value chain—from mining to recycling—that will give rise to one of the cleanest batteries in the world and to ever more efficient energy storage technologies. Several Québec companies are making their mark in this area and are actively contributing to innovation and development in the electric transportation sector. Through their growing presence in the United States, Québec battery companies are helping to reduce greenhouse gas emissions throughout North America.
- In addition to surface transportation, **Québec is also working to reduce pollution in air and sea transport**. It is involved in multiple collaborations within the Great Lakes and St. Lawrence regional forums on sustainable and intelligent marine transportation. Aéro Montréal, Québec's aerospace cluster, also supports innovation projects for the development of new technologies to reduce GHG emissions in the aerospace sector.





## Carbon Emissions Trading



- Québec is a pioneer in North America. **Québec uses innovative, market-based tools to facilitate low-cost GHG emission reductions while encouraging the implementation of clean technologies.** Launched in 2013, Québec's Cap-and-Trade System was linked with California's in 2014, creating the largest emission trading system in North America.
- The Government of Québec uses the Québec-California Cap-and-Trade System to create a price signal, and the revenue generated accelerates our climate and energy transition.
- Québec shares its expertise with international organizations, including the Organization for Economic Co-operation and Development, the World Bank, the Carbon Pricing Leadership Coalition, the International Carbon Action Partnership, and the United Nations Framework Convention on Climate Change.





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