

# *Hydro-Québec at a glance*

*Who we are and our Action Plan 2035*

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MAY 2024



# Hydro-Québec at a glance

Total assets  
**\$92.7B**

Workforce  
**22,051**  
Permanent and  
temporary  
employees

Net income  
**\$3.3B**

Generates over  
**\$4.7B**  
contribution to  
Québec revenue

Electricity sales  
**200.3 TWh**  
Including 23 TWh  
in exports

Investment in  
Québec  
**\$4.9B**



**37,436 MW\***  
of installed capacity



**34,922 km**  
of transmission lines



**228,568 km**  
of distribution lines

**62**  
hydroelectric generating stations

**536**  
transmission substations

**4,5 millions**  
customers

**29**  
large hydroelectric  
réservoirs

**15**  
interconnections with  
neighboring systems

**42,601 MW**  
historic  
winter peak

**...AND the lowest  
residential price in  
North America :**

**7.81 cents/kWh**

\$=CAD. Source: Hydro-Québec Annual Report 2023

\*Does not include the production that Hydro-Québec purchases from Churchill Falls (5,428 MW), wind farms (3,933 MW), small hydroelectric generating stations (706 MW), biomass or biogas cogeneration plants (419 MW) and others (525 MW).

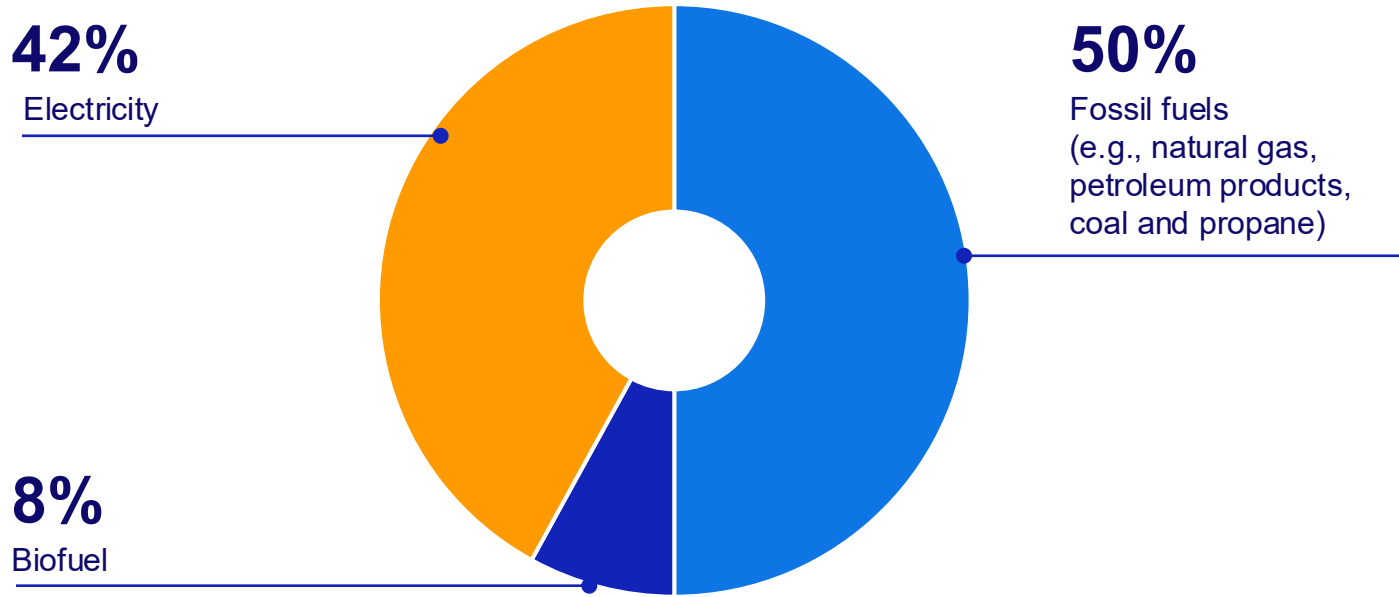
Although **renewable electricity** accounts for a significant share of Québec's energy mix, **nearly 50% of local consumption still uses fossil fuel-based energy that emits GHG.**

For Québec to reach its **carbon neutral goal by 2050**, uses such as transportation, heating and industrial processes will have to be converted, particularly to clean electricity.

CONTEXT

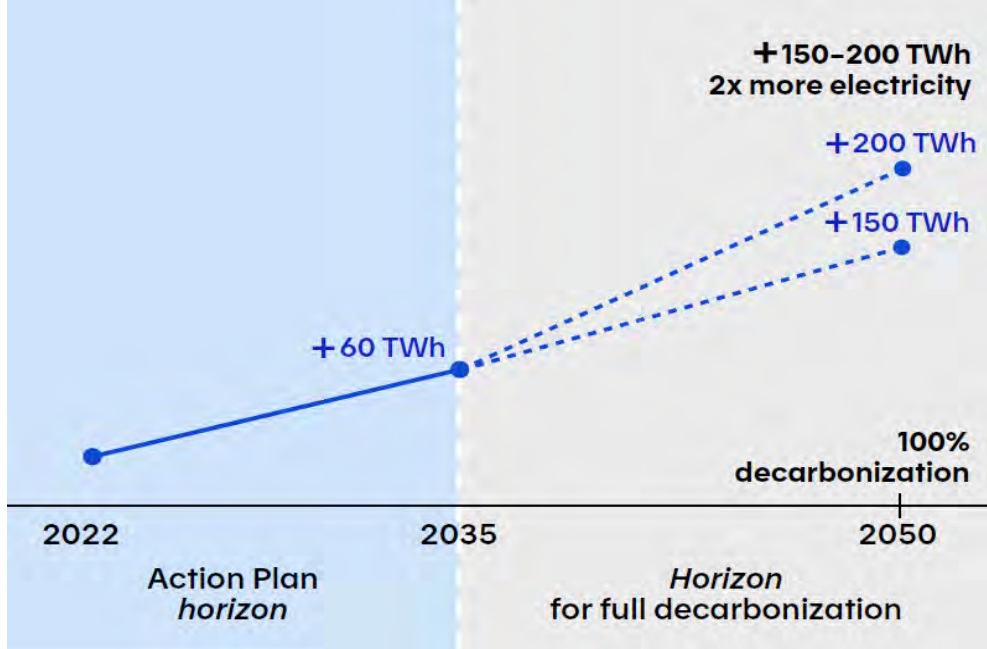
An enviable position for existing electrical generation... with much work up ahead

Total consumption by energy type in Québec, 2020



Source: Whitmore, J. and Pineau, P.-O.. *État de l'énergie au Québec*, 2023 ed., Chaire de gestion du secteur de l'énergie, HEC Montréal.

## Projected trajectory of electricity demand by 2050



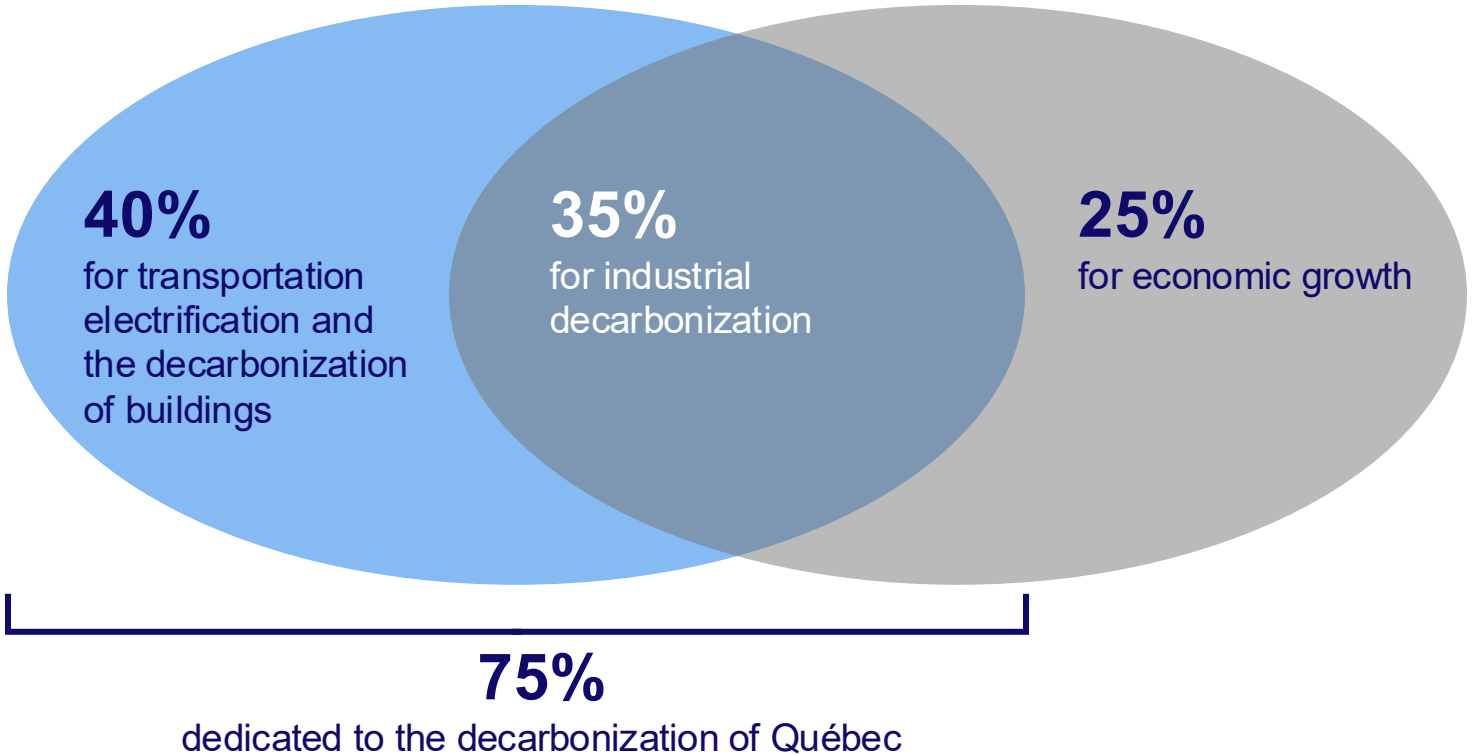
CONTEXT

# Electricity consumption could double by 2050

By 2035, we plan to add **60 TWh**, or between **8,000 and 9,000 MW** of capacity.

That's equivalent to the installed capacity of three of our largest hydropower facilities:  
Robert-Bourassa (LG-2), Manic-5 and the Romaine complex.

## Breakdown of additional electricity use by 2035



“Québec’s next **big society-wide endeavor** is to **decarbonize** while also creating **wealth.**”

### CONTEXT

The energy transition: An opportunity not to be missed

# PRIORITY 1

Improve service quality.



## Our initiatives

**Increase our investments in power grid reliability to better meet the challenges presented by major events and climate change.**

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**Improve communications with our customers during major outages and offer resiliency solutions that can be deployed rapidly.**

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**Speed up the processing of connection requests.**

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## PRIORITY 2

Help our customers make better use of electricity.



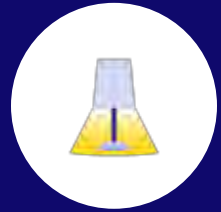
Heating and air-conditioning



Appliances



Pools and hot tubs



Lighting



Hot water



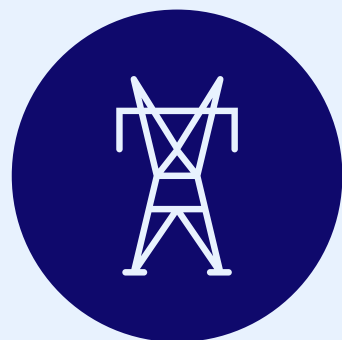
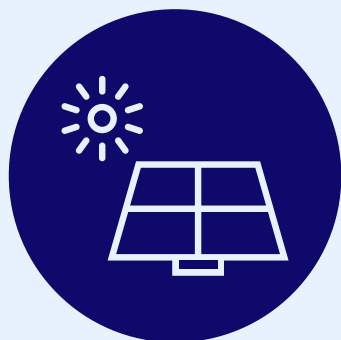
Industrial processes

### Our initiatives

**Double our customers' energy savings to free up between 1,600 and 1,800 MW of power by 2035.**

**PRIORITY 3**

Increase our power generation capacity.



## Our initiatives

**Integrate new assets into the Hydro-Québec grid that, combined with our energy-efficiency and load-side management efforts, will help meet additional capacity requirements of 8,000 to 9,000 MW.**

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**Explore the potential of other energy sources for Québec, taking all tested and emerging solutions into consideration.**

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**Deploy transmission infrastructures to connect additional generating facilities and promising new projects for Québec.**

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## PRIORITY 4

Partner with Indigenous communities.



### Our initiatives

**Create opportunities for Indigenous communities to take part in new energy projects and turn them into sources of sustainable prosperity.**

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**Work with First Nations and Inuit to increase the representation of Indigenous peoples in Hydro-Québec's activities.**

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## PRIORITY 5

Become an agile, innovative and transparent organization.



## Our initiatives

**Leverage expertise complementary to that of Hydro-Québec in order to develop a roadmap for decarbonization and economic prosperity as efficiently as possible.**

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**Adapt our procedures to get things done faster.**

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**Invest in our employees to stimulate innovation and increase our capacity to meet our customers' changing needs.**

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AREAS OF COLLABORATION

**Collaboration on  
three fronts to  
deliver on the  
actions laid out in  
the *Plan***

1

**A more robust network of suppliers and partners across the entire supply chain**

2

**New legislative and regulatory frameworks adapted to the needs of the energy transition**

3

**Labor force: Sufficient qualified workers**

# Why Work with HQ?



## Test Solutions

*Test your solution in the energy sector in partnership with HQ*



## Grow your Network

*HQ can be a key to expand your network in the North American ecosystem*



## Develop a Pilot Project

*Develop a viable pilot project alongside public services*



## Sell and Obtain Financing

*Sell your products to HQ and seek investment from local financial arms*



## Gain Visibility

*Benefit from exposure to the Canadian and American markets*



## Work with Experts from our Research Center

*Work with world class researchers, engineers and technicians and get feedback on your product / technology*

