Decarbonising Quebec

To access the full (French-language) report:

http://www.environnement.gouv. qc.ca/changementsclimatiques/ plan-action-fonds-vert.asp



The Carbon Challenge, and Opportunity

The study concludes that the **2030** target is achievable through domestic emissions reductions. For this, an unprecedented effort is required to:

- increase energy efficiency;
- replace imported fossil fuels, primarily with renewable electricity from Quebec and;
- adopt new practices in the transportation, agriculture and waste sectors.

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-80% to -95%

According to the Dunsky study, currentlyavailable or anticipated technologies could meet most of Quebec's 2050 objectives. Reduced energy needs and new technological innovations can help ease the transition and allow us to go further.





As the first pillar of the transition, managing energy requires increased energy productivity in Quebec's economy. More efficient buildings and heating, recovery of heat lost in factories, public transportation and land-use planning all help the Quebec economy to do more with less energy. Electric motors for vehicles, vastly more efficient than internal combustion engines, can further reduce total energy demand.

More and more manufacturers, including Quebec-based firms, are bringing to market heavy-duty electric vehicles. Quebec could use a combination of tools – financial assistance, innovative financing, lead-by-example and regulation - to ensure their rapid introduction on Québec's roads.



Economic Opportunity

\$10 Trillon/year

Global market in **2030** for low-carbon technologies and services

By stimulating innovation, Quebec's businesses can position themselves in a growing market

Improving Quebec's Energy Trade Balance



Health and Environment



Air-Quality Improvements Positive effects on air-quality, and as a result, on the health of Quebeckers.



Caution

Development of renewable energy sources must be done consciously, with respect for ecosystems and communities

Quebec's strengths lend themselves to a successful transition:



Low-carbon electricity: one of the rare regions where electricity is already decarbonized

Electric heating: one of the rare regions where electrification of heating is largely underway

Zero fossil-fuel energy production: an economy with zero dependence on the extraction of fossil fuels

Abundant resources: an immense territory with significant hydro, wind, solar, and biomass resources

Know-how: Robust industrial fabric and cutting-edge expertise in renewable energy and electrification

In short, Quebec's inherent strengths are aligned with this vast decarbonization effort.

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Note: Technological innovation is advancing at an unprecedented rate. Although the study is based on the best information and forecasts available today, reduction opportunities will continue to evolve over time. Produced by

