

Canada's carbon pricing poses a \$256 billion financial risk for borrowers and banks

June 12 2023



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By putting a price on the cost of carbon, the Government of Canada aims to curtail greenhouse gas (GHG) emissions, but it comes with an increased risk for financial lenders and borrowers with high carbon

emissions.

In a first-of-its-kind study, University of Waterloo researchers analyzed the effects of Canada's carbon price regime on the [economy](#). The results indicate that as carbon costs rise, high-emitting carbon industries such as mining and energy are at the greatest risk of default, with total assets of \$256 billion at risk of being lost and almost a quarter of the Canadian GDP exposed to climate risk.

The study exposes the grave uncertainty facing the Canadian economy and the value for financial lenders and regulators to assess [carbon emissions](#) and carbon price scenarios as part of the [credit](#) risk assessment procedure.

"Canadian banks are deeply involved in lending to carbon-intensive clients and have increased lending to those companies by billions of dollars despite their public commitments to support global climate goals," said Adeboye Oyegunle, Ph.D. candidate in the School of Environment, Enterprise and Development. "If we are not proactive, these investments could create increased costs, default rates and bad debt when you put these investments into context of the changing market and new government regulations."

Using Toronto Stock Exchange data between 2010 and 2020 as a sample, the researchers applied the Canadian Government's carbon price regime of \$0 to \$170 to analyze variables for predicting bankruptcy until 2030. While the results show that high-emitting carbon borrowers and banks are at the greatest risk, their loss could gravely affect the rest of the economy and affordability within Canada, as companies tend to pass on increased costs to consumers, leading to increased prices that will further stretch the finance of the average Canadian.

The researchers propose that lenders should start or continue to consider

a real and a shadow carbon price in their credit risk assessments. This practice will enable them to analyze carbon-related credit risks accurately and set an appropriate interest rate for loans. In addition, [central banks](#) and other financial sector supervisors should start introducing indicators that measure the financial sector's exposure to climate-related credit risks to be able to assess climate-related risks to the [financial industry](#) appropriately.

"Implementing a carbon price is a first step, but not the last one if we are to achieve an orderly transition to a low-carbon economy with minimal disruption to credit," said Olaf Weber, professor in the School of Environment, Enterprise and Development. "For Canada, we must analyze the financial consequences, develop risk assessment tools and indicators, and accelerate the transition to a low [carbon](#) economy."

The study, "[Carbon Costs and Credit Risk in a Resource-Based Economy: Carbon Cost Impact on the Z-Score of Canadian TSX 260 Companies](#)," appears in the *Journal of Management and Sustainability*.

More information: Adebeye Oyegunle et al, Carbon Costs and Credit Risk in a Resource-Based Economy: Carbon Cost Impact on the Z-Score of Canadian TSX 260 Companies, *Journal of Management and Sustainability* (2023). [DOI: 10.5539/jms.v13n1p187](https://doi.org/10.5539/jms.v13n1p187)

Provided by University of Waterloo

Citation: Canada's carbon pricing poses a \$256 billion financial risk for borrowers and banks (2023, June 12) retrieved 22 June 2024 from <https://phys.org/news/2023-06-canada-carbon-pricing-poses-billion.html>

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