

Why banks consider renewable energy to be a riskier investment than fossil fuels

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The financial sector is among the world's most heavily regulated



industries—and for good reason. Financial rules, which force banks to hold capital in reserve when making riskier investments, are designed to prevent financial crises. Other financial regulations, such as accounting rules, aim to provide investors with a credible valuation of their financial assets.

However, <u>new research</u> I conducted with my colleagues shows that some of these rules may have unintended consequences for the low-carbon transition.

Building renewable power sources that will replace <u>fossil fuels</u> will require a lot of money. Much of this will come from banks, among other investors. But some financial regulations affect a bank's behavior and lending choices.

By analyzing global accounting regulations using data on European banks, our team of researchers identified a structural bias in financial models which are required to assess and report risk.

We found that these models rely on historical information about the creditworthiness of firms to assess the risk of various investments. Alarmingly, they tend to judge carbon-intensive assets as less risky than lower carbon ones.

Decarbonizing the world by 2050 <u>could save £12 trillion</u> (US\$15 trillion) and prevent the worst effects of global warming. Any barriers to this transition should be removed, including unintended advantages given to fossil fuels and other high-carbon projects by financial regulations.

Low carbon v high carbon risk



We investigated whether models for assessing <u>financial risk</u> are inhibiting the transition from high-carbon economic activities, using data from the European Banking Authority (EBA). We focused on the International Financial Reporting Standard accounting rules and their influence on which companies and sectors banks decide to lend to.

Risk assessments performed by banks on their investments directly affect their profitability. This in turn creates incentives for banks to lend to some activities over others. Our analysis showed that the average estimate of risk among EU banks for high-carbon sectors of the economy was 1.8%, compared with 3.4% for low-carbon sectors (calculated as euros a bank expects to lose with each unit of lending).

One of the largest contributors to the cost of generating <u>renewable</u> <u>energy</u> is the upfront cost of raising <u>investment</u>. Banks tend to lumber riskier investments with higher interest rates, and so these rules could make it more expensive to finance the construction of wind and solar farms.

Conversely, by estimating high-carbon activities as low-risk, these models may discourage <u>banks</u> and other financial institutions from shedding their high-carbon assets and financing the green transition.

Backward-looking models

Financial models may overestimate the risk of low-carbon investments by relying on historical trends that may no longer hold in the future, especially as renewable energy becomes cheaper to generate. This issue probably extends beyond the accounting rules. For example, capital requirement regulations use similar models and shape economic incentives and the behavior of <u>financial institutions</u>.

Without objective measures of financial risk, it's hard to replace those



estimates that are based on historical observations. One solution may be ensuring risk assessments use climate modeling scenarios to project the risk of high-carbon investments.

Global policymakers are now having to face up to the challenge of meeting their carbon neutrality pledges, but our research suggests that the tools, models and regulations they use are not up to the task.

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