Tobias Berg
Elena Carletti
Stijn Claessens
Jan Pieter Krahnen
Irene Monasterolo
Marco Pagano

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Climate regulation and financial risk: The challenge of policy uncertainty

Tobias Berg, Goethe University Frankfurt, and CEPR
Elena Carletti, Bocconi University, and CEPR
Stijn Claessens, Bank for International Settlements, and CEPR
Jan Pieter Krahnen, SAFE, and CEPR
Irene Monasterolo, EDHEC Business School, and CEPR
Marco Pagano, University of Naples Federico II, and CEPR

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Abstract

Climate risk has become a major concern for financial institutions and financial markets. Yet, climate policy is still in its infancy and contributes to increased uncertainty. For example, the lack of a sufficiently high carbon price and the variety of definitions for green activities lower the value of existing and new capital, and complicate risk management. This column argues that it would be welfare-enhancing if policy changes were to follow a predictable longer-term path. Accordingly, the authors suggest a role for financial regulation in the transition.

Transitioning to a carbon-neutral economy requires structural changes. Fossil fuel-based energy needs to be replaced by renewable alternatives (e.g. wind and solar), and high-carbon activities such as heating need to be transformed (IEA 2021).

Public debate and academic contributions have been focusing on ways to implement the low-carbon transition (NGFS 2019), on the financial costs of a late transition (Alogouskofis et al. 2021), and on the benefits of early action (Gourdel et al. 2022). The debate is increasingly relevant for financial stability analysis and risk management (BIS 2021). For example, to inform climate stress tests, the Network for Greening the Financial System (NGFS) has developed climate scenarios showing higher costs and risks for high-carbon activities, in particular in a late or disorderly transition (NGFS 2021).

While these scenarios take carbon taxation into account, they fail to consider how changes in financial regulation, both over time and across constituencies, affect financial valuations and investment levels.

Absent a coherent climate regulatory strategy, financial institutions and markets may not perform efficiently, as their role in reallocating funds and managing risks may be severely impaired. This

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should not be seen as a surprise: policy uncertainty adds risks, increasing the cost of capital for green investments and thus the value of postponing adjustments (Castellini et al. 2021).

Regulatory uncertainty and risk assessment

A set of climate policies such as a carbon tax and environmental and financial regulation, preferably coordinated globally, is needed to send the right signals to investors and elicit an effective response (Stiglitz et al. 2017). However, these are slow in the coming. Drivers of this policy uncertainty and limited coordination include:

- Swinging perception of climate risks by policymakers, also due to swings in public opinion (e.g. the gilet jaunes demonstrations in France, presidential succession in the US);
- New climate-related information reflecting availability of new data and improved methodologies, as well as the availability of new technologies that alter economic and policy trade-offs;
- The global dimension of climate policy and the difficulties to reach consensus;
- Exogenous shocks, such as the current energy price crisis, which may inadvertently increase the attractiveness of regenerative energy sources or, by contrast, divert policies from formerly envisaged path of transition;
- Poor quality of corporate carbon risk disclosure leading to unfair competitive advantage and greenwashing possibilities, as well as different disclosure coverage at the regional and global level, contributing to contradictory and ambiguous information to investors.

Implications of policy uncertainty for investments and risk management

As argued above, policy uncertainty tends to increase the cost of capital as far as the transition is concerned, negatively affecting the willingness (but also the ability) of investors to fund low-carbon activities in a variety of ways.

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1 An example is the UNFCCC COP27 conference held in Sharm-el-Sheik in 2022.
2 For instance, in the transport sector, Scope 3 emissions represent more than 90% of total emissions but are rarely reported, or when reported the quality varies greatly from firm to firm with differences of also 30 times in values across companies (Bressan et al. 2022).
3 For instance, while the SEC is eager to leave Scope 3 emissions out of firms’ disclosure efforts, both the European Financial Reporting Advisory Group (EFRAG) in charge of updating the European Sustainability Reporting Standards (ESRS), and the International Sustainability Standards Board (ISSB), require Scope 3 emissions disclosure in accordance with the GHG emissions Protocol. Scope 3 emissions cover emissions through corporate’s upstream and downstream value chain (e.g. suppliers and distributors), business travel, leased assets, and financial exposures through financial contracts (equity and debt).
First, policy uncertainty has direct consequences for investment valuation as it bears negatively on net present values. The more volatile green policy measures, the lower their impact on investment decisions – and the lower the green investment levels in the economy.

Second, by fostering uncertainty throughout, delays in climate policy decisions contribute to a scarcity of green assets, so that a sudden swing in demand may trigger commensurate green asset price increases (Demekas and Grippa 2021). Once the transition occurs, and green assets are more plentiful with technology at scale, a decrease in green asset prices might follow. Hence, uncertain climate policies may induce destabilizing swings in the prices of green assets over time.

As uncertainty contributes to delay the transition towards low-carbon real activities, market pressure to move towards greener technologies will remain limited. If a transition occurs unexpectedly, high-carbon firms will have stranded assets on their balance sheet (Mercure et al. 2018) and losses in the P&L statement. This, in turn, may translate into credit risk for financial institutions funding them (Battiston et al. 2017).

Third, policy uncertainty affects risk assessment at the level of financial institutions, which therefore may:

- Assume that others, including governments, will do what is needed in the public interest – so there is no need to act on their side
- Underestimate the systemic spillovers from joint or concentrated exposures to, or fire-sales of, stranded assets
- Ignore – or even encourage – the migration of activities to less-regulated parts of the world and financial markets

The upshot is that policy uncertainty may result not only in a slower-than-necessary green transition, but also in higher risk of financial instability. A secondary effect operates via a reduced willingness of financial institutions to fund the low-carbon transition, generating a negative feedback loop as the delay in the transition may raise financial instability (Battiston et al. 2021).

**Conclusions: The need for policymakers to act now**

Is there a way to lower policy uncertainties so that greening investment decisions can take place rapidly and with large impact? What role should financial regulators and supervisors play? We argue that these actors, and in general all relevant policymakers, should devote sufficient resources to assessing the implications of policy uncertainty for individual and systemic financial risk, and reflect on the implications of such uncertainty on the financial system.
There is surprisingly little discussion about the role of policy uncertainty as a potential source of idiosyncratic and systemic risk for financial markets. This is where supervisory institutions and central banks should play a more active role. A systematic analysis of how various policy decisions (e.g. carbon tax, banking regulation, subsidies, environmental regulation) – and in particular their variability over time – influence corporate investment decisions and bank lending conditions could better inform policymakers about the costs of discretionary climate actions and policy volatility, and the related trade-offs.

In particular, policymakers that regulate financial markets and intermediaries could reduce transition risk by following a few basic principles:

1. They should strive to render climate-related rules impactful, by making them stable over time, credible in implementation, and predictable in evolution. For the sake of price stability, policy changes should be predictable and not easily reversible. For credibility, policy changes should be impactful rather than cosmetic. For predictability, rule changes should follow a particular direction, say, increasing the carbon price steadily. To this aim, benchmarking for all three characteristics (stability, credibility, predictability) should be used.

2. Rule setting by policymakers and regulators should explicitly consider the impact new rules and regulations could have on (a) existing capital in place, and (b) new investments in high- and low-carbon activities. The asset price effects of rule setting are the driving force of corporate adjustment towards a net-zero economy, and an explicit consideration of opportunity costs can help to improve the effectiveness of rule setting.

3. Finally, to enhance the effectiveness of climate policymaking, policymakers should take into account expectation formation by financial industry participants, via transparency about (a) climate-related impact of investment (e.g. by supporting data standardization, comprehensive collection, full disclosure), and (b) the longer-term policy agenda (e.g. rule changes), encompassing the international/global dimension of this agenda.

References


