

Who we are

SPRU

Science Policy Research Unit, University of Sussex

BC3

Basque Centre for Climate Change

CE

Cambridge Econometrics

ECN

Energy Research Centre of the Netherlands

ETHZ

Swiss Federal Institute of Technology

IBS

Institute for Structural Research

JIN

Joint Implementation Network

NTUA

National Technical University of Athens

SEI

Stockholm Environment Institute

UniGraz

University of Graz

UPRC

University of Piraeus Research Centre

CLAPESUC

Pontifical Catholic University of Chile

US

University of Sussex
SPRU - Science Policy Research Unit



ETH zürich



EPU
NTUA



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TRANSrisk

TRANSITION PATHWAYS AND RISK ANALYSIS
FOR CLIMATE CHANGE POLICIES

Transitions Pathways and Risk Analysis for Climate Change Mitigation and Adaption Strategies (2015-2018)

TRANSrisk aims to assess low emission transition pathways that are technically and economically feasible and acceptable from a social and environmental viewpoint. TRANSrisk brings together quantitative models and qualitative approaches, focusing on participatory consultations with stakeholders as a link between the approaches.

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Our Aim

TRANSrisk's aim is to support EU and global climate change goals by providing analytical tools for risk and uncertainty aware policy making.

TRANSrisk acknowledges the importance of modelling exercises, such as those carried out for the EU Roadmap 2050, but also recognises the considerable uncertainties inherent in modelling transition pathways and assessing the costs and benefits associated with mitigation scenarios.

There is also a need to consider implementation risks, such as public acceptance of low emission technologies (or lack thereof) and co-effects of mitigation pathways. Unless properly included in policy design, these risks could halt introduction of technically and economically feasible mitigation options.

TRANSrisk's main objectives are to:

- > Create a novel assessment framework for analysing costs and benefits of transition pathways, where risk is at the heart of policy design rather than accounted for through sensitivity analysis at the end of the analysis.
- > Design a decision support tool to help policy makers better understand uncertainties and risks to inform robust policy design.

About TRANSrisk

TRANSrisk aims to transform the way in which alternative climate change policy pathways are identified and evaluated, through the following four areas:

Stakeholders Engagement & Participatory Scenario Development

Stakeholder insights guide the modelling and analysis, providing the link between theory and practice. Through participatory processes, stakeholders help to test assumptions for quantitative models and assess synergies, conflicts, and risks of transition pathways.

Synergies & Conflicts

Synergies and conflicts between different energy system pathways and other societal objectives are explored. TRANSrisk considers the co-effects of low-emission pathways on other dimensions of sustainable development, such as access to energy, the security of supply, and impacts on water, land use and ecosystems.

Innovation Policies & Transition Pathways

Innovation for a low emission future often takes place along complex pathways with many different actors and incentives. The agency of multiple actors is analysed in detail under different socio-economic and socio-technical contexts. The micro-level implications of key technological and institutional options are integrated with the results of macro-level economic and policy analyses.

Assessing Uncertainties & Risks

It is well established that climate change itself will impose many risks upon society, but far less developed is an understanding of the risks that different climate policies may impose upon society. TRANSrisk expands our understanding of how these risks, and their perception by various interest groups and the public, constrain the desirability and availability of different transition pathways.

What is expected

TRANSrisk expects to have an impact across the policy, business, social and academic sectors:

- > Provide new insights on mitigation pathways across multiple sectors and geographical areas (15 case studies in the EU as well as Canada, Chile, China, India, Indonesia and Kenya).
- > Provide decision makers with tools to assess and evaluate the socio-economic costs & benefits of mitigation options.
- > Support EU and global climate policy goals, such as the implementation and review of the EC's "Roadmap for moving to a low-carbon economy by 2050".
- > Contribute to major international scientific assessments (e.g. IPCC).