

**Workshop on the Economic Implications of Climate Change
and the Transition to a Low-Carbon Economy¹**

December 16-17, 2024 – Via Nazionale 91, Roma – Sala Emeroteca

Monday December 16, 2024

9:15-9:30 Welcome and opening remarks – Silvia Vori, Deputy Director General, Directorate General for Economics, Statistics and Research

9:30-11:30 Session 1 – Impact on the productive sector

Chair: Francesca Lotti (Banca d'Italia)

1. *Being a New Entrant or an Incumbent Matters*
Antonia Pacelli (Toulouse School of Economics)
2. *The Impact of the Net-Zero Transition on UK Productivity: A Conceptual Framework and New Evidence*
Raphael Abiry (Bank of England), Maren Froemel (Bank of England), Philip Schnattinger (Bank of England), Prachi Srivastav (University College Dublin and Bank of England), and Ivan Yotzov (Bank of England)
3. *Greening the Red: Climate Transition Risk and Corporate Bankruptcy*
Matilde Faralli (Imperial College London) and **Costanza Tomaselli** (Imperial College London)

11:30-11:45 Coffee break

11:45-13:05 Session 2 – Nature related issues

Chair: Fabrizio Ferriani (Banca d'Italia)

4. *Accounting for Nature in Economic Models*
Nicoletta Batini (Sveriges Riksbank) and **Luigi Durand** (Central Bank of Chile)
5. *Nature-based Solutions European Policy Instruments for Increasing Investment*
Camille Mehlbaum (De Nederlandsche Bank), Sjoerd van der Zwaag (De Nederlandsche Bank), and **Bas Heerma van Voss** (De Nederlandsche Bank)

13:10-14:30 lunch

¹ Organised by the Climate Committee of the Directorate General for Economics, Statistics and Research (Giorgio Albareto, Pietro Cova, Antonio Di Cesare, Alberto Felettigh, Fabrizio Ferriani, Maura Francese, Laura Graziani Palmieri, Francesca Lotti, Filippo Natoli) and Marco Romani.
Presenting authors in bold.

14:30 Keynote lecture

Economic Consequences of the Energy Transition: Lessons for Resource-Rich Economies
by **Hilde C. Bjørnland** (BI Norwegian Business School)

15:30-16:50 Session 3 – The cost of carbon and financial markets

Chair: Filippo Natoli (Banca d'Italia)

6. *Carbon VIX: Carbon Price Uncertainty and Decarbonization Investments*

Maximilian Fuchs (Copenhagen Business School), Johannes Stroebe (NYU Stern and NBER),
and Julian Terstegge (Copenhagen Business School)

7. *Carbon Pricing in the EU: Fundamentals or Market*

Andrea Gazzani (Banca d'Italia) and Marco Taboga (Banca d'Italia)

(19:30 Dinner upon invitation only)

Tuesday December 17, 2024

9:30-11:30 Session 4 – Finance and financing

Chair: Alberto Felettigh (Banca d'Italia)

8. *Financing Constraints, Climate Policies and Carbon Emissions*

Mattia Guerini, (Università degli Studi di Brescia and Fondazione ENI Enrico Mattei), Giovanni
Marin (Università degli Studi di Urbino and Fondazione ENI Enrico Mattei), and Francesco Vona
(Università degli Studi di Milano and Fondazione ENI Enrico Mattei)

9. *Financial Intermediation and Climate Change in a Production and Investment Network Model for
the Euro Area*

Patrick Grüning (Latvijas Banka) and Zeynep Kantur (Başkent University)

10. *Greening thy Neighbor: How the US Inflation Reduction Act Drives Climate Finance Globally*

Daniel Marcel te Kaat (University of Groningen), Alexander Raabe (Asian Development Bank),
and Yuanjie Tian (Southwestern University of Finance and Economics)

11:30-11:45 Coffee break

11:45 Keynote lecture

Climate Stress-test: Insights from Research and Policy Applications
Irene Monasterolo (Utrecht University School of Economics)

12:45-14:15 lunch

14:15-16:15 Session 5 – Macroeconomic impact

Chair: Pietro Cova (Banca d'Italia)

11. *The Macroeconomic Effects of the Green Transition*

Riccardo Degasperì (Banca d'Italia), Filippo Natoli (Banca d'Italia), and **Kevin Pallara** (Banca d'Italia)

12. *The Macroeconomics of Net Zero*

Neil R. Mehrotra (Federal Reserve Bank of Minneapolis)

13. *The Short-run Macroeconomic Impact of Greenhouse Gas Mitigation Policies*

Benjamin Carton (IMF), Christopher Evans (IMF), Dirk Muir (IMF), and **Simon Voigts** (IMF)

16:15 Closing remarks

Poster session (starting Monday December 16, 2024 13:10)

1. *Quantifying Nature-Related Risks and Opportunities: a Novel Metric for Assessing Ecosystem Integrity and its Economic Impact*

Benedetta Falsetti (Politecnico di Torino), **Giacomo Novelli** (Prometeia), and **Stefano Tripodi** (Prometeia)

2. *Creating Jobs Out of the Green: The Employment Effects of the Energy Transition*

Elisabetta Cappa (Sant'Anna School of Advanced Studies), Francesco Lamperti (Sant'Anna School of Advanced Studies and RFF-CMCC European Institute on Economics and the Environment), and **Gianluca Pallante** (Sant'Anna School of Advanced Studies)

3. *Cash-for-clunkers: Evidence from Italian SMEs*

Matteo Alpino (Banca d'Italia) and Marta Crispino (Banca d'Italia)

4. *The Exposure of Italian Manufacturing Firms to Hydro-geological Risk*

Michele Loberto (Banca d'Italia) and **Riccardo Russo** (Banca d'Italia)

5. *Navigating Climate Policy Shocks: Optimal Monetary Policy Responses*

Marco Carli (Tor Vergata University), Francesca Diluìso (Bank of England), and Mathias Hoffmann (Deutsche Bundesbank)

6. *New Facts on Carbon Pledges of European Banks: Amazing or a Maze*

Cristina Angelico (Banca d'Italia) and Enrico Bernardini (Banca d'Italia)