

# 14<sup>th</sup> Toulouse Conference on the Economics of Energy and Climate

*Toulouse, June 6-7, 2024*

## **CONFERENCE VENUE**

Toulouse School of Economics (TSE)  
1, Esplanade de l'Université  
Auditoriums 3 & 4  
31080 Toulouse Cedex 06

## **ORGANIZING COMMITTEE**

Stefan AMBEC (TSE)  
Mathias REYNAERT (TSE)

## **CONFERENCE SECRETARIAT**

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**GEOCEP**  
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# Thursday, June 6, 2024

8:30 – 9:00	Registration and Welcome	Room: Auditorium 3
09:00 – 10:00	<b>KEYNOTE LECTURE 1:</b>  <b>Moderator: Mathias REYNAERT</b> (TSE)  <b>Catherine WOLFRAM</b> (MIT) <i>Will Carbon Border Adjustment Mechanisms Encourage Global Cooperation on Climate Change?</i>	Room: Auditorium 3
10:00 – 10:30	<b>Break</b>	
10:30 – 12:30	<b>PARALLEL SESSION 1</b>	
	<b>1A: Electrification and renewables</b>	<b>Chair : Claire ALESTRA</b> (Paris School of Economics) <b>Room: Auditorium A3</b>
	<b>Tim SCHITTEKATTE</b> (MIT), Graham Turk (MIT), Pablo Dueñas Martínez (MIT and Universidad Pontificia Comillas), Paul L. Joskow (MIT) and Richard Schmalensee (MIT) <i>Designing Network Tariffs Under Increased Residential End-user Electrification: Can the US Learn Something from Europe?</i> <b>Discussant: Shaun MCRAE</b> (Centro de Investigación Económica and Department of Economics, ITAM)	
	<b>Andrew YATES</b> (University of North Carolina), Stephen P. Holland (University of North Carolina) and Erin T. Mansur (Tuck School of Business at Dartmouth and NBER) <i>Electrification in the Long Run</i> <b>Discussant: Frank WOLAK</b> (Stanford University)	
	<b>Misato SATO</b> (London School of Economics), Aurélien Saussay (London School of Economics) and Leanne Cass (London School of Economics) <i>Supporting Solar: The Causal Impact of Subsidies on Domestic Photovoltaic Installations</i> <b>Discussant: Claire ALESTRA</b> (Paris School of Economics)	
	<b>1B: Climate risk</b>	<b>Chair: François SALANIE</b> (TSE) <b>Room: Auditorium A4</b>
	<b>Charles MASON</b> (University of Wyoming) and Neil A. Wilmot (University of Minnesota–Duluth) <i>On Climate Fat Tails and Politics</i> <b>Discussant: Jean-Pierre AMIGUES</b> (TSE)	
	<b>Shuang ZHANG</b> (Imperial College), Jianwei Xing (Peking University), Kangkai Wang (Peking University), Hua Zhang (CEIBS) and Eric Zou (University of Michigan) <i>Microclimate Risks and Urban Businesses</i> <b>Discussant: Prakash MISHRA</b> (University of Pennsylvania)	
	<b>Simon LANG</b> (Yale University) <i>Welfare-Maximizing Climate Policy and the Role of Climate Finance</i> <b>Discussant: François SALANIE</b> (TSE)	
12:30 – 14:00	<b>Lunch</b>	

**Parallel sessions:** 25 minutes for speakers, 10 minutes for discussants and 5 minutes for questions

**2A: Carbon pricing****Chair: Antonia PACELLI** (TSE)**Room: Auditorium A3**

**Armon REZAI** (Vienna University of Economics and Business), **Frederick van der Ploeg** (University of Oxford), **Miguel Tovar** (The Economics and Social Research Institute)

*Carbon Taxation and Income Redistribution*

**Discussant: Jullien DAUBANES** (Technical University of Denmark)

**Aude POMMERET** (Université Savoie Mont Blanc), **Stefano Carattini** (Georgia State University), **Giseong Kim** (Georgia State University) and **Givi Melkadze** (Georgia State University)

*Carbon Taxes and Tariffs, Financial Frictions, and International Spillovers*

**Discussant: Katinka HOLTSMARK** (University of Oslo)

**Geoffrey BARROWS** (Ecole Polytechnique), **Raphael Calel** (Georgetown University), **Martin Jégard** (Swedish University of Agricultural Sciences) and **Hélène Ollivier** (Paris School of Economics)

*Equilibrium Effects of Carbon Policy*

**Discussant: Antonia PACELLI** (TSE)

**2B: Market structure****Chair: Tim SCHITTEKATTE** (MIT)**Room: Auditorium A4**

**Félix MICHELET** (Mines Paris Tech)

*The Impact of Electricity Market Integration on The Cost of CO2 Emissions Abatement Through Renewable Energy Promotion*

**Discussant: Pello ASPURU** (CEMFI)

**Mert DEMIRER** (Massachusetts Institute of Technology) and **Ömer Karaduman** (Stanford GSB)

*Do Mergers and Acquisitions Improve Efficiency: Evidence from Power Plants*

**Discussant: Mathias REYNAERT** (TSE)

**Nicolas ASTIER** (Paris School of Economics) and **Frank A. Wolak** (Stanford University)

*Nuclear Operations with A High Penetration of Renewables: The Case of France*

**Discussant: Tim SCHITTEKATTE** (MIT)

16:00 – 16:30

**Break**

16:30 – 17:50

PANEL SESSION

**ROUNDTABLE:****Room: Auditorium 3****Which policies and market design for the energy transition?**

**Moderator: Stefan AMBEC** (TSE)

**Antoine DECHEZLEPRETRE** (Senior Economist, OECD)

**Miguel GIL TERTRE**<sup>online</sup> (Chief Economist, DG Energy, European Commission)

**Charles WEYMULLER** (Chief Economist, EDF)

**Catherine WOLFRAM** (Professor at MIT and former Deputy Assistant Secretary for Climate and Energy Economics, U.S. Treasury)

20:00

**Conference Dinner (invitation only)**

**Parallel sessions:** 25 minutes for speakers, 10 minutes for discussants and 5 minutes for questions

# Friday, June 7, 2024

8:30 – 10:30

## PARALLEL SESSION 4

### 4A: Oil and coal

**Chair: Ron CHAN** (The University of Manchester)  
**Room: Auditorium A3**

**Katinka HOLTSMARK** (University of Oslo), Esther Ann Bøler (Imperial College Business School, CEP & CEPR) and Karen Helene Ulltveit-Moe (University of Oslo & CEPR)  
*Shock Therapy for Greener Growth: The Dynamics of Firms' R&D Investments*  
**Discussant: Andre TRINDADE** (Nova School of Business and Economics)

**Julien DAUBANES** (Technical University of Denmark), Saraly Andrade de Sa (University of Copenhagen) and Diego S. Cardoso (Purdue University)  
*Do Markets Price the Sensitivity of Economic Oil Reserves?*  
**Discussant: Charles MASON** (University of Wyoming)

**Pello ASPURU** (CEMFI)  
*Delaying the Coal Twilight Local Mines, Regulators, and the Energy Transition*  
**Discussant: Ron CHAN** (The University of Manchester)

### 4B: Market distortions and dynamics

**Chair: Blake SHAFFER** (University of Calgary)  
**Room: Auditorium A4**

**Junnan HE** (Sciences Po), Michele Fioretti (Sciences Po) and Jorge A. Tamayo (Harvard Business School)  
*Diversified Production and Market Power: Theory and Evidence from Renewables*  
**Discussant: Jean-François FOURNEL** (TSE)

**Ara JO** (University of Bath) and Christos Karydas (ETH Zürich)  
*Firm Heterogeneity, Industry Dynamics and Climate Policy*  
**Discussant: Geoffrey BARROWS** (Ecole Polytechnique)

**Shaun MCRAE** (Centro de Investigación Económica and Department of Economics, ITAM) and Frank A. Wolak (Stanford University)  
*Electricity Pricing for the Energy Transition*  
**Discussant: Blake SHAFFER** (University of Calgary)

10:30 – 10:50

*Break*

10:50 – 12:10

## PARALLEL SESSION 5

### 5A: Carbon sinks

**Chair: Alipio FERREIRA** (SMU)  
**Room: Auditorium A3**

**Prakash MISHRA** (University of Pennsylvania)  
*The Global Allocative Efficiency of Deforestation*  
**Discussant: Sylvain CHABE-FERRET** (TSE)

**Parallel sessions:** 25 minutes for speakers, 10 minutes for discussants and 5 minutes for questions

**Alipio FERREIRA** (Southern Methodist University) and Bruno Barsanetti (EPGE Brazilian School of Economics and Finance)  
*Historical Occupation and Modern Deforestation: Evidence from Indigenous Extinctions in the Amazon*

**5B: Market design**

**Chair: Nicolas ASTIER** (PSE)  
**Room: Auditorium A4**

**Frank WOLAK** (Stanford University), Megan Bailey (University of Calgary), David P. Brown (University of Alberta) and Blake Shaffer (University of Calgary)  
*Centralized vs Decentralized Demand Response: Evidence from a Field Experiment*  
**Discussant: Shuang ZHANG** (Imperial College)

**Stefan LAMP** (TSE), Mario Samano (HEC Montreal) and Silvana Tiedemann (Hertie School Berlin)  
*Firms' Bidding Behavior in a New Market: Evidence from Renewable Energy Auctions*  
**Discussant: Nicolas ASTIER** (PSE)

**12:10 – 13:30**

**Lunch**

**13:30 – 15:30**

**PARALLEL SESSION 6**

**6A: Impact of green policies**

**Chair: Misato SATO** (LSE)  
**Room: Auditorium A3**

**Claire ALESTRA** (Paris School of Economics)  
*Powering Down Nuclear: A Multidimensional Impact Evaluation of the German Case*  
**Discussant: Félix MICHELET** (Mines Paris Tech)

**Matthieu GLACHANT** (Mines Paris Tech) and Guillaume Wald (Mines Paris Tech)  
*The Effect of Energy Efficiency Obligations on Residential Energy Use: Empirical Evidence from France*  
**Discussant: Graham MACKLIN** (TSE)

**Ron CHAN** (The University of Manchester) and Yichen Christy Zhou (Clemson University)  
*Charged Up? Impacts of Green Energy Transition on Local Labor Markets*  
**Discussant: Misato SATO** (London School of Economics)

**6B: Retailing pricing**

**Chair: Andrew YATES** (University of North Carolina)  
**Room: Auditorium A4**

**Blake SHAFFER** (University of Calgary), Megan Bailey (University of Calgary), David P. Brown (University of Alberta), Erica Myers (University of Calgary) and Frank A. Wolak (Stanford University & NBER)  
*Unintended Consequences of Time-of-Use Rates: EV Charging and Distribution Network Constraints*  
**Discussant: Pascal HEID** (TSE)

**Andre TRINDADE** (Nova School of Business and Economics) Davi Resende (FGV EPGE), Gabriel Richter (Stone) and Marcelo Sant'Anna (FGV EPGE)  
*Pricing and Informality: Evidence from Energy Theft in Brazil*  
**Discussant: Junnan HE** (Sciences Po)

**Parallel sessions:** 25 minutes for speakers, 10 minutes for discussants and 5 minutes for questions

**Shefali KHANNA** (Imperial College London), Ralf Martin (Imperial College London and Centre for Economic Performance, LSE) and Mirabelle Muûls (Imperial College London and Centre for Economic Performance, LSE)

*Shifting Household Power Demand across Time: Incentives and Automation*

**Discussant: Andrew YATES** (University of North Carolina)

**15:30 – 16:00**

**Break**

**16:00 – 17:00**

**KEYNOTE LECTURE 2:**

**Room: Auditorium 3**

**Moderator: Stefan AMBEC** (TSE)

**Matti LISKI** (Aalto University)

*Pigouvian Income Taxation*