

9th Mannheim Conference on Energy and the Environment

20 – 21 May 2021, Mannheim • Conference venue: online • Time zone: CET (Germany)

Conference link: <https://bit.ly/3dWk7MQ>

PROGRAMME		THURSDAY, 20 MAY 2021		
10:15 – 10:30	OPENING REMARKS			
10:30 – 12:00	IA: ELECTRICITY MARKETS I	IB: CARBON PRICING I	IC: RESIDENTIAL ENERGY EFFICIENCY I	
12:00– 13:30	LUNCH BREAK			
13:30 – 14:30	KEYNOTE I: ERIK VERHOEF (VRIJE UNIVERSITEIT AMSTERDAM)			
14:30 – 16:00	IIA: FIRMS AND THE ENVIRONMENT	IIB: TRANSPORTATION AND POLICIES I	IIC: INNOVATION	
16:00 – 17:30	IIIA: ELECTRICITY MARKETS II	IIIB: CARBON PRICING II	IIIC: INDUSTRIAL ENERGY EFFICIENCY	
17:30 – 18:30	KEYNOTE II: ASHLEY LANGER (UNIVERSITY OF ARIZONA)			
PROGRAMME		FRIDAY, 21 MAY 2021		
10:30 – 12:00	IVA: RENEWABLES AND REGIONAL ELECTRICITY	IVB: TRANSPORTATION AND POLICIES II	IVC: RESIDENTIAL ENERGY EFFICIENCY II	
12:00– 13:30	LUNCH BREAK			
13:30 – 14:30	KEYNOTE III: KENNETH GILLINGHAM (YALE UNIVERSITY)			
14:30 – 16:00	VA: GREEN FINANCE	VB: TRANSPORTATION AND POLLUTION	VC: RESIDENTIAL ENERGY EFFICIENCY III	
16:00 – 17:30	VIA: ELECTRICITY MARKETS III	VIB: CLIMATE POLICY	VIC: CARBON LEAKAGE	
17:30 – 18:30	KEYNOTE IV: CHRISTIANE BAUMEISTER (UNIVERSITY OF NOTRE DAME)			

10:15 – 10:30 OPENING REMARKS

10:30 – 12:00 **SESSION IA: ELECTRICITY MARKETS I**

Chair: Anette Boom

STORING POWER: MARKET STRUCTURE MATTERS

David Andrés-Cerezo and Natalia Fabra

Discussant: Anette Boom

COMPETITION FOR FLEXIBLE DISTRIBUTION RESOURCES IN A ‘SMART’ ELECTRICITY DISTRIBUTION NETWORK

Thomas Tangeras

Discussant: David Andrés-Cerezo

IS REAL-TIME PRICING SMART FOR CONSUMERS?

Anette Boom and Sebastian Schwenen

Discussant: Thomas Tangeras

SESSION IB: CARBON PRICING I

Chair: Jan Abrell

CARBON PRICING AND EMISSIONS: CAUSAL EFFECTS OF BRITAIN’S CARBON TAX

Klaus Gugler, Adhurim Haxhimusa and Mario Liebensteiner

Discussant: Jan Abrell

THE JOINT IMPACTS OF CARBON PRICING AND RENEWABLE GENERATION ON FOSSIL GENERATION PROFITS IN GERMANY

James B. Bushnell, Christian Gambardella, Kevin Novan and Michael Pahle

Discussant: Mario Liebensteiner

THE IMPACT OF CARBON PRICES ON RENEWABLE ENERGY SUPPORT

Jan Abrell and Mirjam Kosch

Discussant: Christian Gambardella

SESSION IC: RESIDENTIAL ENERGY EFFICIENCY I

Chair: Kathrin Kaestner

ESTIMATING THE IMPACT OF ENERGY EFFICIENCY ON HOUSING PRICES IN GERMANY: DOES REGIONAL DISPARITY MATTER?

Lisa Taruttis and Christoph Weber

Discussant: Kathrin Kaestner

SUPPORTING RESIDENTIAL ENERGY CONSERVATION UNDER CONSTRAINED PUBLIC BUDGET: COST-EFFECTIVENESS AND REDISTRIBUTION ANALYSIS

Bettina Chlond, Claire Gavard and Lisa Jeuck

Discussant: Lisa Taruttis

PHOTOVOLTAICS AND THE SOLAR REBOUND: EVIDENCE FROM GERMANY

Manuel Frondel, Kathrin Kaestner, Stephan Sommer and Colin Vance

Discussant: Claire Gavard

12:00 – 13:30 LUNCH BREAK

13:30 – 14:30 **KEYNOTE I: TRADABLE MOBILITY PERMITS**
Erik Verhoef (Vrije Universiteit Amsterdam)

14:30 – 16:00 **SESSION IIA: FIRMS AND THE ENVIRONMENT**
Chair: Jakob Lehr

**MANAGEMENT PRACTICES AND CLIMATE
POLICY IN CHINA**

Soo Keong Yong, [Ulrich Wagner](#), Peiyao Shen,
Laure de Preux, Mirabelle Muuls, Ralf Martin
and Jing Cao

Discussant: Jakob Lehr

**CLIMATE PROTECTION POTENTIALS OF
DIGITALIZED PRODUCTION PROCESSES:
MICROECONOMETRIC EVIDENCE?**

[Janna Axenbeck](#) and Thomas Niebel

Discussant: Ulrich Wagner

**SESSION IIB: TRANSPORTATION AND
POLICIES I**

Chair: Doina Radulescu

**HOW TO BE A GOOD FORERUNNER IN CARBON
NEUTRAL TRUCKING**

Christina Littlejohn and [Stef Proost](#)

Discussant: Doina Radulescu

**COLLUDING AGAINST ENVIRONMENTAL
REGULATION**

Jorge Ale-Chilet, Cuicui Chen, Jing Li and [Mathias
Reynaert](#)

Discussant: Stef Proost

SESSION IIC: INNOVATION

Chair: Johannes Rode

**HOW DO CONSUMERS APPROACH A NEW
PRODUCT? THE CASE OF REAL-TIME
ELECTRICITY PRICING IN NEW ZEALAND**

[Charles Pébèreau](#) and Kevin Remmy

Discussant: Johannes Rode

**PATENTS AS OPTIONS: ESTIMATING
TECHNOLOGICAL GAINS AND LOSSES FROM
INTERNATIONAL ENVIRONMENTAL
AGREEMENTS**

Albert Roger

Discussant: Charles Pébèreau

ENERGY TAX EXEMPTIONS AND FIRMS' MARKUPS

Jakob Lehr

Discussant: Janna Axenbeck

WELFARE, REDISTRIBUTIVE AND REVENUE EFFECTS OF POLICIES PROMOTING FUEL EFFICIENT AND ELECTRIC VEHICLES

Patrick Bigler and Doina Radulescu

Discussant: Mathias Reynaert

I SPOT, I ADOPT! PEER EFFECTS AND VISIBILITY IN SOLAR PHOTOVOLTAIC SYSTEM

Johannes Rode and Sven Müller

Discussant: Albert Roger

16:00 – 17:30

SESSION IIIA: ELECTRICITY MARKETS II

Chair: Peter Cramton

SESSION IIIB: CARBON PRICING II

Chair: Yuting Yang

SESSION IIIC: INDUSTRIAL ENERGY EFFICIENCY

Chair: Elisa Rottner

BIDDING AND INVESTMENT IN WHOLESALE ELECTRICITY MARKETS: PAY-AS-BID VERSUS UNIFORM-PRICE AUCTIONS

Bert Willems and Yueting Yu

Discussant: Peter Cramton

OVERLAPPING CLIMATE POLICIES

Grischa Perino, Robert A. Ritz and Arthur A. van Benthem

Discussant: Yuting Yang

A DYNAMIC ANALYSIS OF INDUSTRIAL ENERGY EFFICIENCY AND THE REBOUND EFFECT

Golnaz Amjadi, Tommy Lundgren and Wenchao Zhou

Discussant: Elisa Rottner

RENEWABLE VERSUS TRADITIONAL POWER GENERATION: THE STATE OF THE RACE

Gunther Glenk and Stefan Reichelstein

Discussant: Yueting Yu

CARBON PRICE FLOORS AND LOW-CARBON INVESTMENT: A SURVEY OF GERMAN FIRMS

Nils Ohlendorf, Christian Flachsland, Gregory F. Nemet and Jan Christoph Steckel

Discussant: Robert A. Ritz

REGULATING CONGLOMERATES: EVIDENCE FROM AN ENERGY CONSERVATION PROGRAM IN CHINA

Qiaoyi Chen, Zhao Chen, Zhikuo Liu, Juan Carlos Suárez Serrato and Daniel Yi Xu

Discussant: Golnaz Amjadi

ELECTRICITY MARKETS IN TRANSITION – A MULTI-DECADE MICRO-MODEL OF ENTRY AND EXIT IN ADVANCED WHOLESALE MARKETS

Peter Cramton, Emmanuele Bobbio, David Malec and Pacharasut Sujarittanonta

UNILATERAL CARBON POLICIES AND ELECTRICITY TRADE

Stefan Ambec and Yueting Yang

Discussant: Nils Ohlendorf

WHAT DRIVES CARBON EMISSIONS IN GERMAN MANUFACTURING: SCALE, TECHNIQUE OR COMPOSITION?

Elisa Rottner and Kathrine von Graevenitz

Discussant: Juan Carlos Suárez Serrato

Discussant: Gunther Glenk

17:30 – 18:30 **KEYNOTE II: WHAT WERE THE ODDS? ESTIMATING THE MARKET'S PROBABILITY OF UNCERTAIN EVENTS**
Ashley Langer (University of Arizona)

PROGRAMME

FRIDAY, 21 MAY 2021

10:30 – 12:00	SESSION IVA: RENEWABLES AND REGIONAL ELECTRICITY Chair: Sven Heim WIND OF CHANGE IN THE REGION: IS REGIONAL IDENTITY, REGIONAL BENEFITS, OR REGIONAL ENERGY INFRASTRUCTURE BOOSTING PREFERENCES FOR REGIONAL ELECTRICITY PRODUCTS? Elke Groh Discussant: Sven Heim	SESSION IVB: TRANSPORTATION AND POLICIES II Chair: Marita Laukkanen INDIVIDUAL MOBILITY, MODE CHOICE AND THE EFFECTS OF PUBLIC TRANSPORT SUBSIDIES: EVIDENCE FROM A RANDOMIZED CONTROLLED TRIAL Mark A. Andor, Andreas Gerster and <u>Marco Horvath</u> Discussant: Marita Laukkanen	SESSION IVC: RESIDENTIAL ENERGY EFFICIENCY II Chair: Anne Kesselring SUBSIDIZING APPLIANCE REPLACEMENT IN LOW-INCOME HOUSEHOLDS <u>Bettina Chlond</u> , Timo Goeschl and Martin Kesternich Discussant: Anne Kesselring
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**THE ECONOMIC COSTS OF NYMBYISM –
EVIDENCE FROM RENEWABLE ENERGY
PROJECTS**

Stephen Jarvis

Discussant: Elke Groh

**POLICY SUPPORT FOR RENEWABLE ENERGY:
THE CASE OF WIND POWER**

Robert Germeshausen, [Sven Heim](#) and Ulrich
Wagner

Discussant: Stephen Jarvis

**CASH-FOR-CLUNKERS FINLAND: EVALUATING
EFFECTS ON VEHICLE FLEET CO₂ INTENSITY
WITH HOUSEHOLD-LEVEL DATA**

[Marita Laukkanen](#) and Anna Sahari

Discussant: Marco Horvath

**RAISING ENERGY EFFICIENCY OR DISTORTING
CONSUMER CHOICE? MINIMUM STANDARDS
IN THE MARKET FOR HOUSEHOLD
APPLIANCES**

Thiess Buettner and [Anne Kesselring](#)

Discussant: Bettina Chlond

12:00 – 13:30 LUNCH BREAK

13:30 – 14:30 **KEYNOTE III: THE ECONOMICS OF ELECTRIC VEHICLE POLICIES: THE PROMISE AND POTENTIAL PITFALLS**
Kenneth Gillingham (Yale University)

14:30 – 16:00 **SESSION VA: GREEN FINANCE**
Chair: Angelika Vogt

**SESSION VB: TRANSPORTATION AND
POLLUTION**
Chair: Mariza Montes de Oca

**SESSION VC: RESIDENTIAL ENERGY
EFFICIENCY III**
Chair: Madeline Werthschulte

INSTITUTIONAL INVESTORS, CLIMATE POLICY RISK, AND DIRECTED INNOVATION

Marie-Theres von Schickfus

Discussant: Angelika Vogt

BANKING ON THE ENVIRONMENT? FINANCIAL FRICTIONS, FIRM MANAGEMENT, AND GREEN INVESTMENTS

Ralph De Haas, Ralf Martin, [Mirabelle Muuls](#) and Helena Schweiger

Discussant: Marie-Theres von Schickfus

ENDOGENOUS CLIMATE POLICY, SYSTEMIC RISK AND ASSET STRANDING

Achim Hagen, Niko Jaakkola and [Angelika Vogt](#)

Discussant: Mirabelle Muuls

LOW EMISSION ZONES AND TRAFFIC CONGESTION: EVIDENCE FROM MADRID CENTRAL

[Filippo Tassinari](#)

Discussant: Mariza Montes de Oca

TACKLING TRANSPORT-INDUCED POLLUTION IN CITIES: A CASE STUDY IN PARIS

[Marion Leroutier](#) and Philippe Quirion

Discussant: Filippo Tassinari

THE EFFECTS OF AIR QUALITY ALERTS ON AVOIDANCE BEHAVIOR: EVIDENCE FROM NEW YORK CITY TRANSPORTATION NETWORK

[Mariza Montes de Oca](#) and Luis Sarmiento

Discussant: Marion Leroutier

INFORM ME WHEN IT MATTERS: COST SALIENCE, ENERGY CONSUMPTION AND EFFICIENCY INVESTMENTS

Puja Singhal

Discussant: Madeline Werthschulte

WHEN NUDGES FAIL TO SCALE: FIELD EXPERIMENTAL EVIDENCE FROM GOAL SETTING ON MOBILE PHONES

Andreas Löschel, Matthias Rodemeier and [Madeline Werthschulte](#)

Discussant: Puja Singhal

16:00 – 17:30

SESSION VIA: ELECTRICITY MARKETS III

Chair: Mirjam Kosch

THE ZONAL AND SEASONAL CO₂ MARGINAL EMISSIONS FACTORS FOR THE ITALIAN POWER MARKET

[Filippo Beltrami](#), Fulvio Fontini, Monica Giulietti and Luigi Grossi

Discussant: Mirjam Kosch

SESSION VIB: CLIMATE POLICY

Chair: Edson Severini

GREEN GOVERNMENTS

[Niklas Potrafke](#) and Kaspar Wütherich

Discussant: Edson Severini

SESSION VIC: CARBON LEAKAGE

Chair: Vincent Thiverge

COURNOT, PIGOU, AND RICARDO WALK IN A BAR – UNILATERAL ENVIRONMENTAL POLICY, LEAKAGE, MARKET POWER AND FIRM HETEROGENEITY

Claudio Baccianti and [Oliver Schenker](#)

Discussant: Vincent Thiverge

SIMPLIFIED MARKET MECHANISMS FOR NON-CONVEX MARKETS: EVIDENCE FROM ITALIAN ELECTRICITY MARKETS

Christoph Graf, Federico Quaglia and Frank A. Wolak

Discussant: Filippo Beltrami

THE CROSS-BORDER MERIT-ORDER EFFECT: IMPACT OF GERMAN RENEWABLE PROMOTION ON NEIGHBOURING COUNTRIES

Jan Abrell and Mirjam Kosch

Discussant: Christoph Graf

A UNIFYING APPROACH TO MEASURING CLIMATE CHANGE IMPACTS AND ADAPTATION

Antonio M. Bento, Noah Miller, Mehreen Mookerjee and Edson Severini

Discussant: Niklas Potrafke

INTRAFIRM LEAKAGE

Felix Samy Soliman

Discussant: Oliver Schenker

DO CARBON TARIFFS REDUCE GREENHOUSE GAS EMISSIONS? EVIDENCE FROM TRADE TARIFFS

Vincent Thiverge

Discussant: Felix Samy Soliman

17:30 – 18:30

KEYNOTE V: ENERGY MARKETS AND THE COVID-19 PANDEMIC

Christiane Baumeister (University of Notre Dame)