

10th Mannheim Conference on Energy and the Environment

16 – 17 May 2022, Mannheim · Conference venue: ZEW

PROGRAMME

MONDAY, 16 MAY 2022

09:00 – 09:45	ARRIVAL AND REGISTRATION		
09:45 – 10:00	WELCOME ADDRESS: SEBASTIAN RAUSCH (ZEW MANNHEIM AND UNIVERSITY OF HEIDELBERG)		
10:00 – 11:00	KEYNOTE I: LUCAS BRETSCHGER (ETH ZURICH)		
11:00– 11:15	COFFEE BREAK		
11:15 – 12:45	PARALLEL SESSION I-A: ELECTRICITY MARKETS I	PARALLEL SESSION I-B: ENVIRONMENTAL REGULATION I	PARALLEL SESSION I-C: BEHAVIORAL ENVIRONMENTAL ECONOMICS I
12:45 – 13:45	LUNCH BREAK		
13:45 – 15:15	PARALLEL SESSION II-A: PANDEMIC DISEASES AND THE ENVIRONMENT	PARALLEL SESSION II-B: ENVIRONMENTAL REGULATION II	PARALLEL SESSION II-C: BEHAVIORAL ENVIRONMENTAL ECONOMICS II
15:15– 15:30	COFFEE BREAK		
15:30 – 17:00	PARALLEL SESSION III-A: SUSTAINABLE MOBILITY I	PARALLEL SESSION III-B: IMPACTS OF POLLUTION	PARALLEL SESSION III-C: ENERGY EFFICIENCY I
17:00 – 18:00	KEYNOTE II: PAUL FERRARO (JOHNS HOPKINS UNIVERSITY)		
19:000	CONFERENCE DINNER		

PROGRAMME

TUESDAY, 17 MAY 2022

09:00 – 11:00	PARALLEL SESSION IV-A: LOW-CARBON TECHNOLOGIES	PARALLEL SESSION IV-B: ENVIRONMENTAL REGULATION III	PARALLEL SESSION IV-C: ENERGY EFFICIENCY II
11:00– 11:30	COFFEE BREAK		

11:30 – 12:30	KEYNOTE III: ARTHUR VAN BENTHEM (UNIVERSITY OF PENNSYLVANIA)		
12:30 – 13:30	LUNCH BREAK		
13:30 – 15:00	PARALLEL SESSION V-A: SUSTAINABLE MOBILITY II	PARALLEL SESSION V-B: CORPORATE EMISSIONS	PARALLEL SESSION V-C: BEHAVIORAL ENVIRONMENTAL ECONOMICS III
15:00– 15:15	COFFEE BREAK		
15:15 – 16:45	PARALLEL SESSION VI-A: ELECTRICITY MARKETS II	PARALLEL SESSION VI-B: ENVIRONMENTAL REGULATION IV	PARALLEL SESSION VI-C: ENERGY DEMAND IN END- USE SECTORS
16:45 – 17:00	COFFEE BREAK		
17:00 – 18:00	KEYNOTE IV: ERICA MYERS (UNIVERSITY OF CALGARY)		
18:00	FAREWELL		

09:00 – 09:45 **ARRIVAL AND REGISTRATION**

09:45 – 10:00 **WELCOME ADDRESS**
Room Europa
Sebastian Rausch (ZEW Mannheim and University of Heidelberg)

10:00 – 11:00 **KEYNOTE I: ECONOMIC PATHWAYS AND THE CARBON PRICE ESCALATOR**
Room Europa
Lucas Bretschger (ETH Zurich)
Chair: Sebastian Rausch (ZEW Mannheim and University of Heidelberg)

11:00 – 11:15 **COFFEE BREAK**

11:15 – 12:45 **PARALLEL SESSION I-A:
ELECTRICITY MARKETS I**
Room Europa
Chair: Jacqueline Adelowo

Room 1
**PARALLEL SESSION I-B:
ENVIRONMENTAL REGULATION I**
Chair: Marten Ovaere

Room 2
**PARALLEL SESSION I-C:
BEHAVIORAL ENVIRONMENTAL ECONOMICS I**
Chair: Martin Kesternich

MARKET INTEGRATION AND MARKET EFFICIENCY: EVIDENCE FROM TRANSMISSION CONSTRAINTS IN THE BELGIAN ELECTRICITY SECTOR

Charlotte De Cannière

Discussant: Thomas Tangeras

NATIONAL TRANSMISSION SYSTEM OPERATORS IN AN INTERNATIONAL ELECTRICITY MARKET

Henrik Horn and Thomas Tangeras

Discussant: Jaqueline Adelowo

DESIGNING AUTOMATED MARKET POWER MITIGATION IN ELECTRICITY MARKETS

Jacqueline Adelowo and Moritz Bohland

Discussant: Charlotte De Cannière

THE COST-BENEFIT TRADE-OFF OF THE EU ETS AND LATENT RISKS IN THE CBAM

Justus Böning, Virginia Di Nino and Till Folger

Discussant: Jan Abrell

FIXING FRAGMENTED EMISSIONS TRADING

Jan Abrell, Pei Huang and Sebastian Rausch

Discussant: Marten Ovaere

STRATEGIC CLIMATE POLICY IN GLOBAL AVIATION: AVIATION FUEL TAXES, EFFICIENCY STANDARDS AND SAF MANDATES WITH DUOPOLISTIC PRODUCERS

Marten Ovaere and Stef Proost

Discussant: Justus Böning

USING INFORMATION TO IMPROVE GLOBAL COOPERATION: A CLIMATE CHANGE EXPERIMENT

Pedro Naso, Tania Theoduloz, Nicholas Tyack, Dambala Gelo, Mare Sarr, and Timothy Swanson

Discussant: René Bernard

CLIMATE CHANGE AND INDIVIDUAL BEHAVIOR

René Bernard, Panagiota Tzamourani and Michael Weber

Discussant: Martin Kesternich

THE UNINTENDED CONSEQUENCES OF PRO-ENVIRONMENTAL SIGNALING: FIELD EVIDENCE FROM AN OFFSETTING PROGRAM AMONG FIRMS

Carina Fugger, Kathrine von Gravenitz, Martin Kesternich and Michael Price

Discussant: Pedro Naso

12:45 – 13:45

LUNCH BREAK

13:45 – 15:15

Room Europa

**PARALLEL SESSION II-A:
PANDEMIC DISEASES AND THE
ENVIRONMENT**

Chair: Mirabelle Muûls

**MISFORTUNES NEVER COME SINGLY:
ENVIRONMENTAL RISKS, PANDEMICS
DISEASES, AND ECONOMIC GROWTH**

Alexandra Brausmann, Lucas Bretschger,
Aleksey Minabutdinov and Clément Renoir
Discussant: Jack Gregory

**COVID RESTRICTIONS, FEDERAL
ASSISTANCE AND SMALL BUSINESSES:
WHAT CAN WE LEARN FROM ELECTRICITY
DATA?**

Jack Gregory, Katrina Jessoe and Gabriel E.
Lade
Discussant: Mirabelle Muûls

Room 1

**PARALLEL SESSION II-B:
ENVIRONMENTAL REGULATION II**

Chair: Markus Janser

**THE EFFECT OF CLIMATE POLICY ON
PRODUCTIVITY AND COST PASS-THROUGH IN
THE GERMAN MANUFACTURING SECTOR**

Beat Hintermann, Maja Zarkovic, Léo Picard,
Corrado Di Maria and Ulrich Wagner
Discussant: Konstantin Sommer

**THE EU ETS'S TIME-VARYING IMPACT ON
COMPETITIVENESS AND INVESTMENTS:
EVIDENCE FROM DUTCH MANUFACTURING**

Konstantin Sommer and Leon Bremer
Discussant: Markus Janser

Room 2

**PARALLEL SESSION II-C:
BEHAVIORAL ENVIRONMENTAL
ECONOMICS II**

Chair: Jana Eßer

**THE RELATIONSHIP BETWEEN PRO-
ENVIRONMENTAL BEHAVIOR, ECONOMIC
PREFERENCES, AND LIFE SATISFACTION:
EMPIRICAL EVIDENCE FROM GERMANY**

Thilo Haverkamp, Heinz Welsch and Andreas
Ziegler
Discussant: Lara Bartels

**SCALING UP SOCIAL NORMS? FIELD
EXPERIMENTAL EVIDENCE ON THE IMPACT
OF INSTITUTIONAL NORMS ON INDIVIDUAL
BEHAVIOR**

Lara Bartels and Martin Kesternich
Discussant: Jana Eßer

**HEMWORKING CAN BE NET POSITIVE,
EVIDENCE FROM THE UK LOCKDOWN
DURING COVID-19**

Quentin Coutellier, Jeffrey Hardy, Ralf Martin
and Mirabelle Muûls
Discussant: Aleksey Minabutdinov

**HOW DOES DECARBONIZATION AFFECT
WORKERS? CLIMATE POLICIES AND THEIR
EFFECTS ON LOW- AND HIGH-CARBON TASKS,
OCCUPATIONS AND INDIVIDUAL EMPLOYMENT
BIOGRAPHIES**

Markus Janser and Florian Lehmer
Discussant: Beat Hintermann

**COGNITVE DISSONANCE AND
SUSTAINABLE CONSUMPTION: EMPIRICAL
EVIDENCE ON AVOIDING CONFLICTING
COGNITIONS**

Jana Eßer, Daniela Flörchinger, Manuel Frondel
and Stephan Sommer
Discussant: Thilo Haverkamp

15:15 – 15:30

COFFEE BREAK

15:30 – 17:00

Room Europa

**PARALLEL SESSION III-A:
SUSTAINABLE MOBILITY I**

Chair: Isis Durrmeyer

**MACHINE LEARNING FROM GPS DATA
ABOUT THE HETEROGENOUS COSTS OF
CONGESTION**

Nicholas Koch, Nolan Ritter, Alexander Rohlf
and Ben Thies
Discussant: Luis Sarmiento

Room 1

**PARALLEL SESSION III-A:
IMPACTS OF POLLUTION**

Chair: Timothy Foreman

**OH SHOOT, DON'T POLLUTE: THE EFFECT OF
AIR POLLUTION ON GUN VIOLENCE**

Pei Huang
Discussant: Yasemin Karamik

Room 2

**PARALLEL SESSION III-C: ENERGY
EFFICIENCY I**

Chair: Ilya Eryzhenskiy

**HOW TO SUPPORT RESIDENTIAL ENERGY
CONSERVATION COST-EFFECTIVELY? AN
ANALYSIS OF PUBLIC FINANCIAL SCHEMES
IN FRANCE**

Bettina Chlond, Claire Gavard and Lisa Jeuck
Discussant: Anne Kesselring

**THE HETEROGENOUS AIR QUALITY EFFECTS
OF MADRID'S LOW EMISSION ZONE**

Mariza Montes de Oca León, Adrián Santonja
and Luis Sarmiento

Discussant: Isis Durrmeyer

**GONE WITH THE WIND: THE EFFECT OF AIR
POLLUTION ON CRIME – EVIDENCE FROM
GERMANY**

Yasemin Karamik and Kathrine von Greavenitz

Discussant: Timothy Foreman

**WILLINGNESS TO PAY FOR ENERGY
EFFICIENCY: EVIDENCE FROM THE EUROPEAN
COMMON MARKET**

Anne Kesselring

Discussant: Ilya Eryzhenskiy

**THE WELFARE COSTS OF URBAN TRAFFIC
REGULATIONS**

Isis Durrmeyer and Nicolás Martínez

Discussant: Nicholas Koch

**ENVIRONMENTAL SHOCKS AND THE DECISION
TO MIGRATE**

Timothy Foreman

Discussant: Pei Huang

**ZERO-INTEREST LOANS ACCELERATE HOME
ENERGY RETROFIT INVESTMENT: CAUSAL
EVIDENCE FROM FRANCE**

Ilya Eryzhenskiy, Louis-Gaëtan Giraudet,
Marion Segú and Maryam Vahid Dastgerdi

Discussant: Claire Gavard

Room Europa

17:00 – 18:00

KEYNOTE II: THE PROMISE AND PITFALLS OF APPLYING INSIGHTS FROM PSYCHOLOGY TO ADDRESS ENERGY AND ENVIRONMENTAL CHALLENGES

Paul Ferraro (Johns Hopkins University)

Chair: Martin Kesternich (ZEW Mannheim and University of Kassel)

	Room Europa	Room 1	Room 2
09:00 – 11:00	<p>PARALLEL SESSION IV-A: LOW-CARBON TECHNOLOGIES</p> <p>Chair: Stefan Lamp</p> <p>INCENTIVES FOR THE ENERGY TRANSITION: FEED-IN TARIFFS, REBATES, OR A HYBRID DESIGN?</p> <p><u>Marta Televi</u></p> <p>Discussant: Gunther Glenk</p> <p>COST-TRAJECTORIES OF ELECTROLYTIC HYDROGEN PRODUCTION</p> <p><u>Gunther Glenk</u>, Philip Holler and Stefan Reichelstein</p> <p>Discussant: Mario Liebensteiner</p>	<p>PARALLEL SESSION IV-B: ENVIRONMENTAL REGULATION III</p> <p>Chair: Xavier Koch</p> <p>GREENWASHING IN THE US METAL INDUSTRY? A NOVEL APPROACH COMBINING SO₂ CONCENTRATIONS FROM SATELLITE DATA, A PLANT-LEVEL FIRM DATABASE AND WEB TEXT MINING</p> <p><u>Sebastian Schmidt</u>, Jan Kinne, Sven Lautenbach, Thomas Blaschke, David Lenz and Bernd Resch</p> <p>Discussant: Léo Picard</p> <p>CARBON ABATEMENT COSTS IN GERMAN MANUFACTURING</p> <p>Corrado Di Maria, Beat Hintermann, <u>Léo Picard</u> and Maja Zarkovic</p> <p>Discussant: Elisa Rottner</p>	<p>PARALLEL SESSION IV-C: ENERGY EFFICIENCY II</p> <p>Chair: Juan Palacios</p> <p>HOMEOWNERSHIP AND AEROSOL AIR POLLUTION</p> <p>Frank Simmen and <u>Bernd Süßmuth</u></p> <p>Discussant: Mateus Souza</p> <p>PREDICTIVE COUNTERFACTUALS FOR TREATMENT EFFECT HETEROGENEITY IN EVENT STUDIES WITH STAGGERED ADOPTION</p> <p><u>Mateus Souza</u></p> <p>Discussant: Juan Palacios</p>

SUBSIDIZED RENEWABLES' ADVERSE EFFECT ON ENERGY STORAGES AND CARBON PRICING AS A POTENTIAL REMEDY

Mario Liebensteiner, Adhurim Haxhimusa and Fabian Naumann

Discussant: Stefan Lamp

DO MANUFACTURING PLANTS RESPOND TO EXOGENOUS CHANGES IN ELECTRICITY PRICES? EVIDENCE FROM ADMINISTRATIVE MICRO-DATA

Kathrine von Graevenitz and Elisa Rottner

Discussant: Xavier Koch

HEALTH IMPLICATIONS OF HOUSING PROGRAMS: EVIDENCE FROM A POPULATION-WIDE WEATHERIZATION PROGRAM

Steffen Künn and Juan Palacios

Discussant: Bernd Süßmuth

BIDDER'S EXPERIENCE AND PRICES IN RENEWABLE ENERGY AUCTIONS

Stefan Lamp, Mario Samano and Silvana Tiedemann

Discussant: Marta Talevi

ENVIRONMENTAL CORPORATE SOCIAL RESPONSIBILITY DISCLOSURE AND ENVIRONMENTAL EFFICIENCY

Xavier Koch

Discussant: Sebastian Schmidt

11:00 – 11:30 **COFFEE BREAK**

Room Europa

11:30 – 12:30 **KEYNOTE III: ENVIRONMENTAL REGULATION IN VEHICLE MARKETS**

Arthur van Benthem (University of Pennsylvania)

Chair: Ulrich Wagner (University of Mannheim and ZEW Mannheim)

12:30 – 13:30 LUNCH BREAK

13:30 – 15:00 Room Europa
**PARALLEL SESSION V-A:
SUSTAINABLE MOBILITY II**

Chair: Lavan Burra

**THE IMPACT OF POLICY AWARENESS:
EVIDENCE FROM VEHICLE CHOICES
RESPONSE TO FISCAL INCENTIVES**

Davide Cerruti, Claudio Daminato and
Massimo Filippini

Discussant: Lavan Burra

**POLICY COMPLEMENTARIS IN THE
PROMOTION OF ELECTRIC VEHICLES:
SUBSIDIES AND CHARGING
INFRASTRUCTURE**

Lavan Burra, Stephan Sommer and Colin
Vance

Discussant: Davide Cerruti

Room 1
**PARALLEL SESSION V-B:
CORPORATE EMISSIONS**

Chair: Anca Balietti

**CORPORATE TAXATION AND CARBON
EMISSIONS**

Luigi Iovino, Thorsten Martin and Julien
Sauvagnat

Discussant: Sebastian Schwenen

**STRATEGIC ABILITY AND CORPORATE CARBON
EMISSIONS**

Moritz Bohland and Sebastian Schwenen

Discussant: Anca Balietti

Room 2
**PARALLEL SESSION V-C:
BEHAVIORAL ENVIRONMENTAL
ECONOMICS III**

Chair: Ulrich Wagner

**MORE THAN JUST A PRICE DECREASE: FIELD
EXPERIMENTAL EVIDENCE ON THE
MECHANISMS OF AN ENERGY EFFICIENCY
SUBSIDY**

Lara Bartels and Madeline Werthschulte

Discussant: Kathrin Kaestner

**ON HOME ENERGY REPORTS AND
BOOMERANGS: EVIDENCE FROM AUSTRIA**

Kathrin Kaestner and Colin Vance

Discussant: Johannes Gessner

**ENVIRONMENTAL AUDITS AND AIR POLLUTION
IN THE US**

Zain Chaudhry and Anca Balietti

Discussant: Thorsten Martin

**CAN SOCIAL COMPARISON AND MORAL
SUASION INCREASE PUBLIC TRANSPORT
RIDERSHIP AND DECREASE CAR USE?**

Johannes Gessner, Wolfgang Habla and Ulrich
Wagner

Discussant: Madeline Werthschulte

15:00 – 15:15 **COFFEE BREAK**

15:15 – 16:45

Room Europa

**PARALLEL SESSION VI-A:
ELECTRICITY MARKETS II**

Chair: Christoph Graf

**SECRET PAIRWISE FORWARD TRADING AND
IMPERFECT COMPETITION**

Geert Van Moer

Discussant: Pär Holmberg

Room 1

**PARALLEL SESSION VI-B:
ENVIRONMENTAL REGULATION IV**

Chair: Wolfram Schlenker

**STILL YOUR GRANDFATHER'S BOILER:
ESTIMATING THE EFFECTS OF THE CLEAN AIR
ACT'S GRANDFATHERING PROVISIONS**

Sylwia Bialek, Jack Gregory, Richard Revesz and
Bridget Pals

Discussant: Laure de Preux

Room 2

**PARALLEL SESSION VI-C:
ENERGY DEMAND IN END-USE SECTORS**

Chair: Simon Brandkamp

**CLIMATE PROTECTION POTENTIAL OF DIGITAL
TRANSFORMATION – THE ROLE OF
PRODUCTION RELOCATION**

Thomas Niebel, Janna Axenbeck and Justus
Böning

Discussant: Shefali Khanna

UNIFORM-PRICE AUCTION WITH SINGLE-UNIT DEMAND

Edward Anderson and [Pär Holmberg](#)

Discussant: Christoph Graf

CO-POLLUTION IMPACTS OF CLIMATE POLICY: EVIDENCE FROM THE EMISSIONS TRADING SCHEME

[Laure de Preux](#), Dana Kassem and Ulrich Wagner

Discussant: Wolfram Schlenker

SHORT- AND LONG-RUN CONSUMPTION AND NON-PAYMENT RESPONSES TO RETAIL ELECTRICITY PRICES IN INDIA

[Shefali Khanna](#) and Kevin Rowe

Discussant: Simon Brandkamp

MEASURING THE ABILITY TO EXERCISE MARKET POWER IN LOCATIONAL-PRICING MARKETS: AN APPLICATION TO THE ITALIAN ELECTRICITY MARKET

[Christoph Graf](#) and Frank A. Wolak

Discussant: Geert Van Moer

PUSHED TO CROSS THE LINE: MULTIPERIOD POLLUTION STANDARDS AND THE COST OF ENVIRONMENTAL REGULATION

[Wolfram Schlenker](#) and Florian Grosset

Discussant: Sylwia Bialek

PRICE RESPONSIVE DEMAND IN BRITAIN'S ELECTRICITY MARKET

Emmanuela Bobbio, [Simon Brandkamp](#), Stephanie Chan, Peter Cramton, David Malec and Lucy Yu

Discussant: Thomas Niebel

16:45 – 17:00 COFFEE BREAK

Room Europa

17:00 – 18:00 **KEYNOTE IV: THE ROLE OF BUILDINGS ON THE PATH TO NET ZERO**

Erica Myers (University of Calgary)

Chair: Kathrine von Graevenitz (ZEW Mannheim and University of Mannheim)

18:00 FAREWELL