



Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich



Centre for Energy Policy and Economics
Department of Management, Technology,
and Economics

EMEE 2020 - 13th International Workshop on "Empirical Methods in Energy Economics"

January 13-14, 2020

Centre for Energy Policy and Economics (CEPE)
ETH Zurich, Main Building
Room HG E 41

The 13th International Workshop on Empirical Methods in Energy Economics will be held at CEPE in Zurich on **January 13-14, 2020**. It is intended as a forum for the development and application of empirical methods in energy economics. Details on previous workshops, along with information about joining the EMEE Network, can be found on the **EMEE webpage (www.emee.ethz.ch)**.

To foster a lively debate and a comprehensive exchange of ideas about new empirical research in energy economics, the 2020 workshop will allow time for a full presentation and discussion of each contribution. All sessions are plenary (no concurrent presentations) to ensure the workshop participants' attendance at all presentations.

Conference Venue

ETH Zurich, Main Building, Room HG E 41
Rämistrasse 101
8092 Zürich

Social Dinner

Chalet Züriberg
Orellistrasse 21
8044 Zürich

WORKSHOP AGENDA

Monday, January 13th, 2020

8.15 – 8.45 *Participants Registration*

8.45 – 9.00 **Welcome and Introduction**
Massimo Filippini, EMEE Network Coordinator and CEPE, ETH Zurich, and USI
Sebastien Houde, CEPE, ETH Zurich and Grenoble School of Management

9.00 – 10.30 **Session 1. Topic: Household Decision-Making**
Chair: Massimo Filippini, ETH Zurich
(40 minutes each)

Kenneth Gillingham, Yale University
Do Building Audits Save Energy? Evidence from a Natural Experiment

Laura Grant, Claremont McKenna College
When Electricity is Free

10.30 – 11.00 **Coffee Break**

11.00 – 12.30 **Session 2. Topic: Household Decisions-Making**
Chair: Anna Alberini, University of Maryland
(40 minutes each)

Marie-Charlotte Guetlein, Grenoble Ecole de Management
The effects of energy literacy and household income on consumer choice of energy-efficient appliances – Insights from a multi-country discrete choice experiment and welfare analysis

Jacquelyn Pless, Massachusetts Institute of Technology
Prosumer Consumption Substitution and Disentangling Uncertainty from Salience

12.30 – 13.30 **Networking Lunch and First Poster Session***

13.30 – 14.30 **Invited speaker: William Greene**, New York University
Zombie Econometrics: The Linear Probability Model

14.30 – 14.45 **Short Break**

14.45 – 15.45 **Egg-Timer session I**

*Chair: Mathias Reynaert, Toulouse School of Economics
(10 minutes each)*

Stephan Sommer, RWI – Leibniz Institute for Economic Research

Local Cost for Global Benefit: The Case of Wind Turbines

Dominik Schober, University of Mannheim & ZEW

Pass through of Input Costs in the German Electricity Spot Market

Davide Cerruti, ETH Zurich

Misperceptions of energy costs: Implications for the design of electric mobility contracts

Anna Sahari, VATT Institute for Economic Research

Household heterogeneity in willingness to pay for heating cost reductions

Bryan Coyne, Trinity College Dublin

An evaluation of the effectiveness of domestic retrofit using Irish utility meter reading data

Tobias Wekhof, ETH Zurich

Do Energy Efficiency Standards Improve Quality? Evidence from a Revealed Preference Approach

15.45 – 16.15 **Coffee Break**

16.15 – 17.45 **Session 3. Topic: Energy Markets**

*Chair: Beat Hintermann, University of Basel
(40 minutes each)*

Geoffrey Barrows, Ecole Polytechnique

Market Power & Incomplete Regulation: An Application to the EU ETS

Stefan Lamp, Toulouse School of Economics

Equilibrium Effects of Competition on Solar Photovoltaic Demand and Pricing

19.00

Social dinner: Chalet Züriberg

*** First Poster Session**

Julia Bingler, ETH Zurich

Experimental evidence for totally price inelastic residential natural gas demand

Ewa Lazarczyk, Reykjavik University

The competitive effect of EU transparency reforms: evidence from Nord Pool

Neil A. Wilmot, University of Minnesota Duluth

Time-Varying Jump Intensities and the Interconnectedness of the North American Crude Oil Complex

Doina Radulescu, University of Bern

Strategic Interdependencies Among Governments in the Provision of Energy

Lisa Ryan, University College Dublin

Integrating European Electricity Markets – what impact for consumers and producers?

Gianluca Trotta, Danish Building Research Institute, Aalborg University Copenhagen

Clustering analysis of domestic electricity load profiles: Evidence from Denmark

Maja Zarkovic, University of Basel

Are Emissions Trading Schemes Really Cost-effective?

Tuesday, January 14th, 2020

8.00 – 9.30 **Session 4. Topic: Environmental Policy Instruments**

Chair: Laura Grant, Claremont McKenna College
(40 minutes each)

Piero Basaglia, University of Hamburg
Carbon pricing, compensation, and competitiveness: Lessons from UK manufacturing

Anant Sudarshan, University of Chicago
Rationing the Commons

9.30 – 10.00 **Coffee Break**

10.00 – 11.30 **Session 5. Topic: Automobile Industry**

Chair: Kenneth Gillingham, Yale University
(40 minutes each)

Jing Li, Massachusetts Institute of Technology
Technology Cooperation or Technology Collusion? The Case of German Automakers

Mathias Reynaert, Toulouse School of Economics
Is environmental protectionism an efficient non-tariff barrier? The case of EU automobile taxes.

11.30 – 11.45 **Short Break**

11.45 – 12.45 **Egg-Timer session II**

Chair: Jacquelyn Pless, Massachusetts Institute of Technology
6 Presenters (10 minutes each):

Ruozi Song, University of Southern California
*Unintended Impacts of Incomplete Policies on Inputs:
Evidence from China*

Mattias Vesterberg, Umeå University, CERE
*Distribution charges and the price elasticity of demand for electricity: results from an
extreme pricing field experiment*

Florian Egli, ETH Zurich
The political cost of coal decline: Evidence from US presidential elections

Matthew Kotchen, Yale University
The Producer Incidence of Fossil Fuel Subsidies in the United States

Marita Laukkanen, VATT Institute for Economic Research
*Energy Taxes and Manufacturing Firm Performance: Evidence from Finland's Green Tax
Reform*

Roland Kube, German Economic Institute Cologne
Do voluntary environmental programs reduce emissions? EMAS in the German manufacturing sector

12.45 – 13.45 **Networking Lunch and Second Poster Session****

13.45 – 15.15 **Short Presentations**

*Chair: Reinhard Madlener, RWTH Aachen University
(15 minutes each)*

Andreas Gerster, University of Mannheim
The Impact of Carbon Trading on Industry: Evidence from German Manufacturing Firms

Anomitro Chatterjee, London School of Economics
Pro-sociality and Energy Conservation in Qatar: Evidence from a Series of Natural Field Experiments

Beat Hintermann, University of Basel
Abatement subsidies vs. carbon trading in Switzerland

Louis-Gaëtan Giraudet, CIRED
Barriers to Zero-Interest Green Loans in France: A regression discontinuity approach

Ashish Tyagi, Frankfurt School of Finance & Management
Spillovers from Plant-Differentiated Energy Efficiency Regulation in the Indian Cement Sector

Marco Horvath, RWI - Leibniz Institute for Economic Research
The Effects of Revising Car Taxes and Fuel Economy in Germany

15.15 – 15.45 **Coffee break**

15.45 – 17.15 **Session 6. Topic: Energy & Developing Countries**

*Chair: Sébastien Houde, Grenoble School of Management
(40 minutes each)*

Jevgenijs Steinbuks, The World Bank
How Valuable are the Quality Improvements in Residential Power Supply? Evidence from the Survey of Nepalese Households

Nilkanth Kumar, ETH Zurich
Behavioral Anomalies and the Adoption of Electric Bikes: Evidence from a Stated-Preference Experiment in Kathmandu

17.15 – 17.30 **Concluding Remarks**

**** Second Poster Session**

Anna Kowalska-Pyzalska, Wroclaw University of Science and Technology
Smart Metering Roll-out in Poland and India: An Empirical Study Among Social Media Users

Nilkanth Kumar, ETH Zurich
Gas demand in the Swiss household sector

Bowen Liu, University of Birmingham
The impact of the Clean Air Act on air quality in the Beijing-Tianjin-Hebei (BTH) region of China: A machine learning approach

Lisa Ryan, University College Dublin
Adoption of Renewable Home Heating System: An Agent-Based Modeling of Heat Pump System in Ireland

Hendrik Schmitz, RWTH Aachen University
Preferences For Electric Mobility Charging: A Latent Class Approach

Philipp Steinbrunner, University of Turin / Collegio Carlo Alberto
Estimating the impacts of different types of Unbundling on productivity in the electricity generation sector

Joëlle Velvart, University of Basel
Tailored interventions in a major life decision: A home relocation discrete choice experiment

Stefanie Wolff, RWTH Aachen University
Regional Disparities in Preferences for Electric Vehicle Charging and Implications for Charging Infrastructure Planning