



15th IAAEE European Conference 2017

‘HEADING TOWARDS SUSTAINABLE ENERGY SYSTEMS: EVOLUTION OR REVOLUTION?’

3rd to 6th September 2017
Hofburg Congress Center, Vienna, Austria





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Welcome to Vienna!

Dear colleagues, dear conference delegates,
It is a very great pleasure and honour for us to host the 15th European IAEE-conference in Vienna and to welcome you at the historical premises of the “Hofburg” to hold this prestigious and important conference. We hope you will actively contribute to making it an interesting and stimulating event, both professionally and socially.

The topic of the conference **HEADING TOWARDS SUSTAINABLE ENERGY SYSTEMS: EVOLUTION OR REVOLUTION?** reflects the changes and challenges currently under way in the energy systems of many countries. In recent years, energy markets underwent remarkable changes world-wide. Developments in oil, natural gas as well as electricity markets brought challenges of redesigning these markets. In addition, to cope with the problem of global warming and heading towards sustainable energy systems a global climate policy is required. Global change in thinking is required and solutions must be sought that can cover the diverse needs like affordability, environmental compatibility and economic feasibility.

The conference focuses on new developments of energy conversion technologies, energy policies and their effects on individual countries as well as at a global level, the efficient use of different types of primary energy resources and possible solutions to stop global warming.

Special activities and events for students and young researchers are offered providing excellent opportunities for informal fellowship and networking.

It is a collective effort and challenge to organize an international conference on this scale. Therefore, we thank our sponsors for their generous support and the members of the International programme committee. They have been very helpful with their professional advice and with handling about 400 submitted Abstracts and papers.

Thanks a lot to all of you and a warm welcome to Vienna!

Reinhard Haas
Chair of Programme Committee

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Pictures
Cover Page: HOFBURG Vienna, M. Seidl
Cover Page, Back Page, 3, 4, 10 and 32
(except the pic from Heuriger Wolff), Albert Hiesl



Committees

General Chairman of Organizing Committee
Hans Auer, AAEE; Technische Universität Wien

Chair of Programme Committee
Reinhard Haas, AAEE; Technische Universität Wien

Chair of Concurrent Sessions Committee
Albert Hiesl, AAEE; Technische Universität Wien

Chairs of Sponsorship Committee
Martin Graf, AAEE; Energie Steiermark
Thomas Irschik, AAEE; Wien Energie

Chairs of Arrangement Committee
Albert Hiesl, AAEE; Technische Universität Wien
Christine Frey, Technische Universität Wien

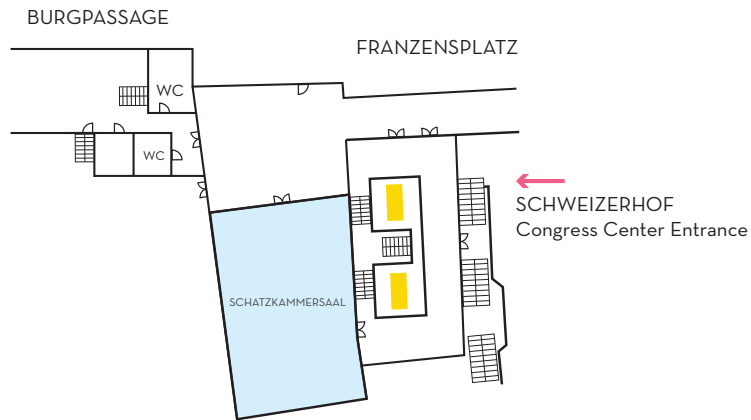
Programme Committees

Yildiz Arikan, İstanbul Kemerburgaz University, Turkey
Amela Ajanovic, Vienna Technische Universität Wien, Austria
Olvar Bergland, Norwegian University of Life Sciences, Norway
Lars Bergman, Stockholm School of Economics, Sweden
Fatih Birol, IEA, France
Audun Botterud, MIT, USA
Carlo Andrea Bollino, University of Perugia, Italy
Christophe Bonnery, ERDF, France
Carol Dahl, Colorado School of Mines, USA
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Neven Duic, University of Zagreb, Croatia
Georg Erdmann, Berlin University of Technology, Germany
Paula Ferreira, University of Minho, Portugal
Massimo Filippini, CEPE, ETH Zurich and USI, Switzerland
Jean-Michel Glachant, European University, Italy
Richard Green, British Institute for Energy Economics, UK
Nevenka Hrovatin, University of Ljubljana, Slovenia
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Dogan Keles, KIT, Germany
Claudia Kemfert, DIW Berlin, Germany
Jaroslav Knapek, TU Prague, Czech Republic
Gurkan Kumburoglu, Boğaziçi University, Turkey
Reinhard Madlener, RWTH Aachen, Germany
Dominik Möst, TU Dresden, Germany
Machiel Mulder, University of Groningen, The Netherlands
Shonali Pachauri, IIASA, Austria
Tatiana Mitrova, ERIRAS, Russia
Ricardo B. Raineri, Pontificia Universidad Católica de Chile, Chile
Isabel Soares, University of Porto, Portugal
Heinz Stigler, TU Graz, Austria
Christian von Hirschhausen, TU Berlin, Germany
Christoph Weber, University Essen, Germany
Franz Wirl, University of Vienna, Austria
Rolf Wüstenhagen, St. Gallen, Switzerland
Mine Yucel, Federal Reserve Bank of Dallas, USA
Jelena Zoric, University of Ljubljana, Slovenia

HOFBURG CONGRESS CENTER

Conference floor guide

Ground Floor



1st Floor



Ground Floor

- Registration
- Meeting Room & Business Lounge

1st Floor

- Dual Plenaries 2, 4, 6
Sessions 1B - 8B
- Poster Sessions
- Lunch, Coffee Breaks
- Welcome & Introduction,
Opening & Closing Plenaries
Dual Plenaries 1, 3, 5
Sessions 1A - 8A
- Sessions 1C - 8C
- Sessions 1D - 8D
- Sessions 1E - 8E
- Sessions 1F - 8F
- Sessions 1G - 8G
- Sessions 1H - 8H

Programme overview

Sunday 3 September

Time	Activity	Venue
9:00 a.m. – 2:00 p.m.	Council Meeting (by invitation only)	Hotel “Das Tigra”
1:00 p.m. – 6:00 p.m.	PhD Day /Presentation Workshop	TU Wien, Gußhausstraße
6:00 p.m. – 8:30 p.m.	Conference Registration	Hofburg Congress Center
6:30 p.m. – 8:30 p.m.	Welcome Reception	Hofburg Congress Center
9:00 p.m. – 11:00 p.m.	Student Happy Hour	Cafe “Das Möbel”

Monday 4 September

Time	Activity	Venue
8:00 a.m. – 6:00 p.m.	Conference Registration	Hofburg Congress Center - Ground Floor
8:30 a.m. – 9:00 a.m.	Welcome & Introduction	Zeremoniensaal
9:00 a.m. – 9:30 a.m.	Special Address	Zeremoniensaal
9:30 a.m. – 10:30 a.m.	Opening Plenary Session	Zeremoniensaal
10:30 a.m. – 11:00 a.m.	Coffee Break	Marmorsaal, Wintergarten, Antekammer
11:00 a.m. – 12:30 p.m.	Dual Plenary Session I	Zeremoniensaal
11:00 a.m. – 12:30 p.m.	Dual Plenary Session II	Rittersaal
12:30 p.m. – 2:00 p.m.	Lunch	Marmorsaal, Wintergarten, Antekammer
2:00 p.m. – 3:30 p.m.	Concurrent Sessions 1A to 1H	See Page 12 - 13
3:30 p.m. – 4:30 p.m.	Coffee Break	Marmorsaal, Wintergarten, Antekammer
3:30 p.m. – 4:30 p.m.	Poster Session	Radetzky App. II & Entreezimmer
4:30 p.m. – 6:00 p.m.	Concurrent Sessions 2A to 2H	See Page 13 - 15
7:00 p.m. – 11:00 p.m.	Flying Dinner & Tour	Museumsquartier

Accessing Wifi at the Convention Centre:

Conference delegates have access to Wifi for the duration of the Conference.

Network: IAEEConferenceVienna
Password: IAEE2017

In Case of Emergency:

Hotline: +43 664 805 87 410

Tuesday 5 September

Time	Activity	Venue
8:00 a.m. – 6:00 p.m.	Conference Registration	Hofburg Congress Center - Ground Floor
8:00 a.m. – 9:00 a.m.	European Affiliate Leader Meeting (by invitation only)	Schatzkammersaal
9:00 a.m. – 10:30 a.m.	Dual Plenary Session III	Zeremoniensaal
9:00 a.m. – 10:30 a.m.	Dual Plenary Session IV	Rittersaal
10:30 a.m. – 11:00 a.m.	Coffee Break	Marmorsaal, Wintergarten, Antekammer
11:00 a.m. – 12:30 p.m.	Concurrent Sessions 3A to 3H	See Page 15 - 16
12:30 p.m. – 2:00 p.m.	Lunch	Marmorsaal, Wintergarten, Antekammer
2:00 p.m. – 3:30 p.m.	Dual Plenary Session V	Zeremoniensaal
2:00 p.m. – 3:30 p.m.	Dual Plenary Session VI	Rittersaal
3:30 p.m. – 4:30 p.m.	Coffee Break	Marmorsaal, Wintergarten, Antekammer
3:30 p.m. – 4:30 p.m.	Poster Session	Radetzky App. II & Entreezimmer
4:30 p.m. – 6:00 p.m.	Concurrent Sessions 4A to 4H	See Page 23 - 24
7:30 p.m. – 11:30 p.m.	Award Dinner (Best Student Paper and Best Poster Award)	Heuriger Wolff

Wednesday 6 September

Time	Activity	Venue
8:00 a.m. – 12:00 p.m.	Conference Registration	Hofburg Congress Center - Ground Floor
8:00 a.m. – 9:00 a.m.	Groningen Planning Meeting (by invitation only)	Schatzkammersaal
9:00 a.m. – 10:30 a.m.	Concurrent Sessions 5A to 5H	See Page 24 - 25
10:30 a.m. – 11:00 a.m.	Coffee Break	Marmorsaal, Wintergarten, Antekammer
11:00 a.m. – 12:30 p.m.	Concurrent Sessions 6A to 6H	See Page 26 - 27
12:30 p.m. – 1:30 p.m.	Lunch	Marmorsaal, Wintergarten, Antekammer
1:30 p.m. – 3:00 p.m.	Concurrent Sessions 7A to 7H	See Page 27 - 28
3:00 p.m. – 3:15 p.m.	Coffee Break	Marmorsaal, Wintergarten, Antekammer
3:15 p.m. – 4:15 p.m.	Concurrent Sessions 8A to 8H	See Page 28 - 29
4:15 p.m. - 5:15 p.m.	Closing Plenary Session	Zeremoniensaal

Thursday 7 September

Time	Activity	Venue
10:00 a.m. – 12:00 p.m.	Technical tour: Waste Incineration plant Spittelau	
10:30 a.m. – 2:00 p.m.	Technical tour: Nuclear power plant Zwentendorf	

Plenary Sessions

Monday 4 September

Session Title	Speakers
<p>Special Address:</p> <p>Global Energy Markets in Transition: Implications for the Economy, Environment & Geopolitics</p> <hr/> <p>9:00 a.m. – 9:30 a.m. Zeremoniensaal</p>	<p>Hans Auer (<i>Presiding</i>) EEG, TU Wien</p> <p>Fatih Birol, IEA</p>
<p>Opening Plenary Session:</p> <p>The Way to Paris: Climate Targets and Decarbonization Strategies</p> <hr/> <p>9:30 a.m. – 10:30 a.m. Zeremoniensaal</p>	<p>Hans Auer (<i>Presiding</i>) EEG, TU Wien</p> <p>Pantelis Capros, National Technical University of Athens</p> <p>Michael Strebl, Wien Energie</p>
<p>Dual Plenary Session I:</p> <p>Long-term Scenarios: New Challenges, New Approaches, New Results</p> <hr/> <p>11:00 a.m. – 12:30 p.m. Zeremoniensaal</p>	<p>Christian von Hirschhausen (<i>Presiding</i>) TU Berlin / DIW Berlin</p> <p>Klaus Mohn, University of Stavanger</p> <p>Volker Krey, IIASA</p> <p>Claudia Kemfert, DIW Berlin / Hertie School of Governance</p> <p>Paula Ferreira, University of Minho</p>
<p>Dual Plenary Session II:</p> <p>New Designs in Electricity Markets</p> <hr/> <p>11:00 a.m. – 12:30 p.m. Rittersaal</p>	<p>Christophe Bonnery (<i>Presiding</i>) FAEE</p> <p>Dominik Möst, TU Dresden</p> <p>Audun Botterud, MIT</p> <p>Isabel Soares, University of Porto</p> <p>Markus Graebig, 50Hertz</p>

Tuesday 5 September

Session Title	Speakers
<p>Dual Plenary Session III:</p> <p>Geopolitics of Oil and Natural Gas in Europe</p> <hr/> <p>9:00 a.m. – 10:30 a.m. Zeremoniensaal</p>	<p>Georg Erdmann (<i>Presiding</i>) TU Berlin</p> <p>Kostas Andriosopoulos, ESCP</p> <p>Manfred Hafner, Enerdata</p> <p>Jim Smith, Methodist University</p>
<p>Dual Plenary Session IV:</p> <p>The Future of Transport and Electricity Systems</p> <hr/> <p>9:00 a.m. – 10:30 a.m. Rittersaal</p>	<p>Amela Ajanovic (<i>Presiding</i>) EEG, TU Wien</p> <p>Ben Schlesinger, BSA Energy</p> <p>Richard Green, Imperial College</p> <p>Reinhard Haas, EEG, TU Wien</p>
<p>Dual Plenary Session V :</p> <p>Will Market Forces or Planned Economies Determine the Future Energy System?</p> <hr/> <p>2:00 p.m. – 3:30 p.m. Zeremoniensaal</p>	<p>Anne Neumann (<i>Presiding</i>) University of Potsdam</p> <p>Nektaria Karakatsani, RAE</p> <p>Karsten Neuhoff, DIW Berlin</p> <p>Jean-Michel Glachant, EUI</p>
<p>Dual Plenary Session VI:</p> <p>Smart Energy Future ... Whatever that Means?</p> <hr/> <p>2:00 p.m. – 3:30 p.m. Rittersaal</p>	<p>Johannes Mayer (<i>Presiding</i>) E-Control Austria</p> <p>Peter Lund, Aalto University</p> <p>Michel Derdevet, Enedis</p> <p>Michael Merz, Ponton</p> <p>Franz Strempl, Energienetze Steiermark</p>

Wednesday 6 September

Session Title	Speakers
<p>Closing Plenary Session :</p> <p>Innovation in the Energy Sector: Which Technologies do we Need after 2030 and which Policies do we Need Now?</p> <hr/> <p>4:15 p.m. – 5:15 p.m. Zeremoniensaal</p>	<p>Reinhard Haas (<i>Presiding</i>) EEG, TU Wien</p> <p>Pierre de Champs, European Commission</p> <p>Nebojsa Nakicenovic, IIASA</p> <p>Georg Erdmann, TU Berlin</p> <p>Ricardo Raineri Bernain, Pontificia Universidad Católica de Chile</p>

Social Events



Welcome Reception - Hofburg Congress Center

Sunday 3 September 18:30 – 20:30

Student happy hour - Cafe “Das Möbel”

Burggasse 10, 1070 Vienna

Sunday 3 September 21:00 – 23:00



Social Tour

Vienna's city center: its highlights and its secrets

Monday 4 September 14:00

Meeting point: Opposite of the main entrance to St. Stephan's Cathedral in front of the Samsung/Drei store (Stephansplatz 8A)

Duration: about 2 hrs.



Social Tour

Schönbrunn Palace and its gardens

Tuesday 5 September 10:30

Meeting point: In front of the ticket office/visitor's center of Schönbrunn Palace (left hand side behind the gate with the two obelisks).

Duration: about 2 hrs.



Museumsquartier, Dinner & Tour

Monday 4 September 19:30 – 23:00

Meeting point: 19:00 directly at the Museumsquartier (within walking distance to the Hofburg - walk from the Hofburg over the Heldenplatz and between the museums straight to the Museumsquartier)



Award Dinner

(Best Student Paper and Best Poster Award): Heuriger Wolff

Tuesday 5 September 19:30 – 23:30

18:45: Meeting Point for Bus transfer:
Entrance Hofburg Congress Center
19:30: Heuriger
22:00: 1st bus transfer to Hofburg
23:30: 2nd bus transfer to Hofburg

TECHNICAL TOURS

Technical tours are limited in capacity and an attendance fee applies. Both tours take place on **Thursday 7 September**. Registration at the conference registration page is required. Please hold the appropriate attendance fee ready in cash.

Nuclear Power Plant Zwentendorf

Capacity: max 50 persons

Fee: EUR 20,-

Time: 10:30 - 14:00

Meeting point for Bus transfer: 10:15 at the Burgtor, Heldenplatz 21/4, 1010 Vienna

Bus transfer from Hofburg and back

Waste Incineration Plant Spittelau

Capacity: max 30 persons

Fee: EUR 20,-

Time: 10:00 - 12:00

Meeting Point: 9:45 Wien Energie, Spittelauer Lände 45, 1090 Vienna, Foyer.

Take the underground Line U4 until Spittelau and take the exit “J-Holaubek-Platz”



IAEE HISTORY

We aim to provide an interdisciplinary forum for the exchange of ideas about the energy industry.



Group of energy economists approached the American Economic Association December 1977 in New York City.



The first annual meeting in June 1979 in Washington D.C.



International conference at Churchill College, in Cambridge, in the summer of 1980, established its international credentials.



IAEE Conferences are now firmly established. They are organized annually around the world by IAEE affiliates in 30 countries with up to 600 participants.

1977

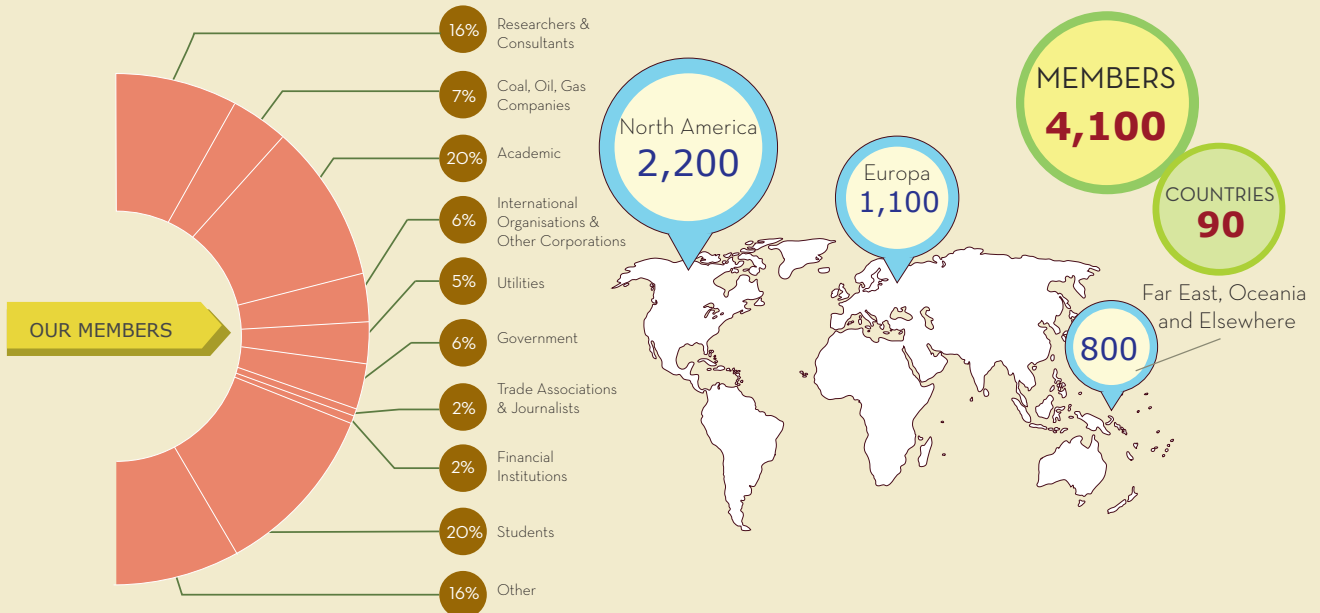
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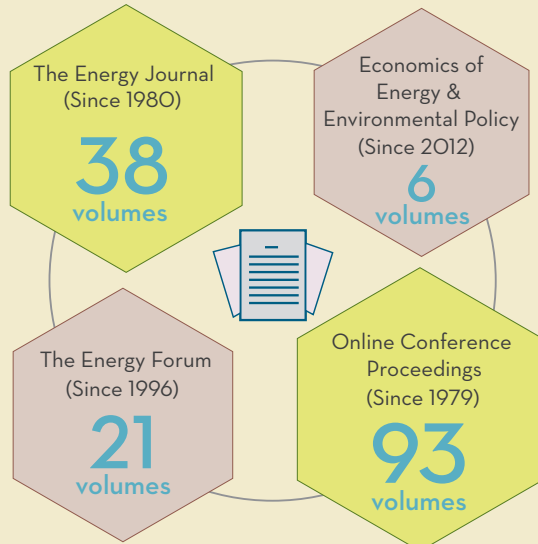
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PUBLICATIONS



SOME MEMBERSHIP BENEFITS



Concurrent Sessions 1A - 1F

CONCURRENT SESSIONS 1A - 1H

Monday 4 September, 2:00 p.m. - 3:30 p.m.

Session 1A: Climate I Zeremoniensaal

THE POLITICAL ECONOMY OF ENERGY TRANSITION IN THE EU

Leadauthor: Aviel Verbruggen (University of Antwerp)
Presenting: Aviel Verbruggen (University of Antwerp)

ACHIEVABILITY OF THE PARIS AGREEMENTS' TARGETS IN THE EU - COMPARISON OF ENERGY AND EMISSION INTENSITIES IN INTERNATIONAL AND NATIONAL MITIGATION SCENARIOS

Leadauthor: Jakob Wachsmuth (Fraunhofer ISI)
Coauthors: Vicki Duscha
Presenting: Jakob Wachsmuth (Fraunhofer ISI)

27% RENEWABLE ENERGIES IN THE EUROPEAN UNION BY 2030 - LESSONS LEARNED AND RECOMMENDATIONS ON THE WAY FORWARD

Leadauthor: Gustav Resch (TU Wien)
Coauthors: Lukas Liebmann, Jasper Geipel, Luis Janeiro, Mario Ragwitz, Anne Held
Presenting: Gustav Resch (TU Wien)

HETEROGENEITY OF INTERMITTENT ENERGY SOURCES AND COST-EFFECTIVE RENEWABLE POLICIES

Leadauthor: Sebastian Rausch (ETH Zurich)
Coauthors: Clemens Streitberger, Jan Abrell
Presenting: Sebastian Rausch (ETH Zurich)

Session 1B: Electricity Markets I Rittersaal

BIDDING FORMATS FOR SHORT-TERM ELECTRICITY MARKETS

Leadauthor: Joern Richstein (DIW Berlin)
Coauthors: Casimir Lorenz, Karsten Neuhoff
Presenting: Joern Richstein (DIW Berlin)

DEFAULT SUPPLY AUCTIONS IN ELECTRICITY MARKETS: CHALLENGES AND PROPOSALS

Leadauthor: Juan Ignacio Peña (Universidad Carlos III)
Presenting: Juan Ignacio Peña (Universidad Carlos III)

AN ANALYSIS OF THE BID-ASK SPREAD IN THE GERMAN POWER CONTINUOUS MARKET

Leadauthor: Clara Balarly (EPEX Spot / Université Paris-Dauphine)
Presenting: Clara Balarly (EPEX Spot / Université Paris-Dauphine)

ELECTRIC SPOT PRICES AND WIND FORECAST EFFECTS: A DYNAMIC IMPULSE-RESPONSE ANALYSIS FOR THE NORDIC/BALTIC ELECTRICITY MARKET

Leadauthor: Per B Solibakke (Norwegian University of Science and Technology)
Presenting: Per B Solibakke (Norwegian University of Science and Technology)

Session 1C: Social Acceptance of Renewables Geheime Ratstube

THE TRANSITION OF THE AUSTRIAN ENERGY SYSTEM TO A HIGH PENETRATION OF WIND ENERGY: VISIONS, VALUES AND COSTS

Leadauthor: Patrick Scherhauser (University of Natural Resources and Life Sciences (BOKU))
Coauthors: Johannes Schmidt, Stefan Höltinger, Boris Salak, Thomas Schuppenlehner
Presenting: Patrick Scherhauser (University of Natural Resources and Life Sciences (BOKU))

LOCAL ACCEPTANCE OF WIND ENERGY IN SWITZERLAND, ESTONIA AND UKRAINE: A CROSS-COUNTRY ANALYSIS BASED ON CHOICE EXPERIMENTS

Leadauthor: Anna Ebers (IWOe, University of St.Gallen)
Coauthors: Andrea Tabi, Rolf Wüstenhagen, Nadiya Kostyuchenko, Denys Smolennikov, Liina Joller
Presenting: Anna Ebers (IWOe, University of St.Gallen)

THE IMPACT OF BELIEFS, MOTIVES AND WORLDVIEWS ON SOCIAL ACCEPTANCE OF RENEWABLE ENERGY TECHNOLOGIES

Leadauthor: Robert Gennaro Sposato (Alpen-Adria-Universität Klagenfurt)
Coauthors: Nina Hampl
Presenting: Robert Gennaro Sposato (Alpen-Adria-Universität Klagenfurt)

IS THERE A CASE FOR COMMUNITY-BASED PARTICIPATION IN SWISS HYDROPOWER PROJECTS?

Leadauthor: Pascal Vuichard (University of St. Gallen)
Presenting: Pascal Vuichard (University of St. Gallen)

Session 1D: Energy Efficiency I Trabantenstube

ENERGY LABELS AND THEIR IMPACT ON CONSUMER'S DECISION AT THE POINT OF INVESTMENT

Leadauthor: Andrej Gubina (Faculty of Electrical Engineering, University of Ljubljana)
Coauthors: Edin Lakic, Tomi Medved
Presenting: Edin Lakic (Faculty of Electrical Engineering, Ljubljana)

THE ROLE OF ENERGY EFFICIENCY LABELS ON PROPERTY CHOICES IN IRELAND

Leadauthor: James Carroll (Trinity College Dublin)
Coauthors: Eleanor Denny, Ronan Lyons
Presenting: James Carroll (Trinity College Dublin)

CONSUMER PREFERENCES FOR ENERGY EFFICIENT CARS IN NORWAY

Leadauthor: Steffen Kallbekken (CICERO Center for International Climate)
Coauthors: Håkon Sælen, Erlend Hermansen
Presenting: Steffen Kallbekken (CICERO Center for International Climate)

PERCEPTIONS OF ENERGY SAVING IN AGRICULTURE: A QUALITATIVE ANALYSIS IN GREECE

Leadauthor: MICHALIS Skourtos (AGRICULTURAL UNIVERSITY OF ATHENS)
Coauthors: Areti Kontogianni, Christos Tourkolas
Presenting: MICHALIS Skourtos (AGRICULTURAL UNIVERSITY OF ATHENS)

THE ROLE OF LABEL INFORMATION ON CONSUMER PREFERENCES FOR ENERGY EFFICIENT APPLIANCES IN SPAIN

Leadauthor: de Ayala Amaya (Basque Centre for Climate Change BC3)
Coauthors: Sébastien Foudi, iBON GALARRAGA, Sola Marimar
Presenting: iBON GALARRAGA (BC3 -BASQUE CENTRE FOR CLIMATE CHANGE)

Session 1E: Best Student Paper Award Künstlerzimmer

THE IMPORTANCE OF PREQUALIFICATIONS AND PENALTIES A MODEL-BASED ASSESSMENT OF THE UK RENEWABLES AUCTION SCHEME

Leadauthor: Marijke Welisch (TU Wien)
Presenting: Marijke Welisch (TU Wien)

CARBON TAXATION: DESIGNING COMPENSATION MEASURES TO PROTECT LOW-INCOME HOUSEHOLDS

Leadauthor: Audrey Berry (CIRED)
Presenting: Audrey Berry (CIRED)

SQUARING THE SUNNY CIRCLE? BALANCING DISTRIBUTIVE JUSTICE OF POWER GRID COSTS AND INCENTIVES FOR SOLAR PROSUMERS

Leadauthor: Merla Kubli (Zürich University of Applied Sciences & University of St. Gallen)
Presenting: Merla Kubli (Zürich University of Applied Sciences & University of St. Gallen)

OPEC, SAUDI ARABIA, AND THE SHALE REVOLUTION: INSIGHTS FROM EQUILIBRIUM MODELLING AND OIL POLITICS

Leadauthor: Dawud Ansari (DIW Berlin)
Presenting: Dawud Ansari (DIW Berlin)

Session 1F: Energy Assets I Radetzky App. I

COMMODITY PRICING: EVIDENCE FROM RATIONAL AND BEHAVIORAL MODELS

Leadauthor: Don Bredin (University College Dublin)
Coauthors: Valerio Poti, Enrique Salvador
Presenting: Don Bredin (University College Dublin)

THE EFFECT OF CRUDE OIL PRICES ON THE VALUATION OF ENERGY COMPANIES

Leadauthor: Frank Asche (University of Stavanger)
Coauthors: Roy Endré Dahl
Presenting: Frank Asche (University of Stavanger)

FORECASTABILITY OF PETROLEUM INVESTMENTS

Leadauthor: Sindre Lorentzen (University of Stavanger)
 Coauthors: Petter Osmundsen
 Presenting: Sindre Lorentzen (University of Stavanger)

RESERVES REPLACEMENT AND OIL AND GAS COMPANY SHAREHOLDER RETURNS

Leadauthor: Bård Misund (University of Stavanger Business School)
 Presenting: Bård Misund (University of Stavanger Business School)

Session 1G: Nuclear Maria Theresien App. I

SHOCKS, INSTITUTIONS, AND THE DIVERSITY OF NUCLEAR POWER POLICIES IN EUROPE

Leadauthor: Peter Grossman (Butler University)
 Presenting: Peter Grossman (Butler University)

DECOMMISSIONING OF NUCLEAR POWER PLANTS AND STORAGE OF NUCLEAR WASTE IN EUROPE - COMPARISON OF ORGANIZATION MODELS AND POLICY PERSPECTIVES

Leadauthor: Ben Wealer (TU Berlin)
 Coauthors: Christian Roland von Hirschhausen, Christian Möckel, Jan Paul Seidel
 Presenting: Ben Wealer (TU Berlin)

CHINA'S NUCLEAR ENERGY PROGRAM: STATUS AND FUTURE

Leadauthor: Christian Rengifo (UxC)
 Presenting: Christian Rengifo (UxC)

PROCESSING HIGH-LEVEL WASTE IN THE US - A MATHEMATICAL MODEL

Leadauthor: Ben Wealer (TU Berlin)
 Coauthors: Tim Scherwath, Christian Roland von Hirschhausen, Viktoria Czempinski, Sebastian Wegel
 Presenting: Sebastian Wegel (TU Berlin)

ECONOMIC APPRAISAL OF DEPLOYMENT SCHEDULES FOR HIGH LEVEL RADIOACTIVE WASTE REPOSITORY IN FRANCE

Leadauthor: Phuong Hoai Linh DOAN (CEA)
 Coauthors: Thierry Duquesnoy, Jean-Guy Devezeaux de Lavergne
 Presenting: Phuong Hoai Linh DOAN (CEA)

Session 1H: Transport I Radetzky App. III

INTERNATIONAL TRANSPORT ENERGY MODELING (ITEM): A COMPARISON OF NATIONAL AND INTERNATIONAL TRANSPORT ENERGY AND CLIMATE POLICY STRATEGIES AND SCENARIOS

Leadauthor: Sonia Yeh (Chalmers University of Technology)
 Presenting: Sonia Yeh (Chalmers University of Technology)

HOW TO TRIGGER MASS-MARKET ADOPTION FOR ELECTRIC VEHICLES? - AN ANALYSIS OF POTENTIAL ELECTRIC VEHICLE DRIVERS IN AUSTRIA

Leadauthor: Alfons Priessner (Alpe-Adria Universität)
 Coauthors: Robert Gennaro Sposato, Nina Hampf
 Presenting: Alfons Priessner (Alpe-Adria Universität)

BAYESIAN MODEL AVERAGING TO PREDICT INTEREST IN ELECTRIC VEHICLES IN GERMANY

Leadauthor: Patrick Plötz (Fraunhofer ISI)
 Coauthors: Julius P. Wesche, Elisabeth Dütschke
 Presenting: Patrick Plötz (Fraunhofer ISI)

LOW-CARBON ENERGY IN SCOOTER APPLICATIONS

Leadauthor: Po-Chien Huang (Department of Transportation and Communication Management Science, National Cheng Kung University)
 Coauthors: Ching-Chih Chang
 Presenting: Po-Chien Huang (Department of Transportation and Communication Management Science, National Cheng Kung University)

ENERGY DEMAND VERSUS FLEXIBILITY SUPPLY - DISENTANGLING EFFECTS OF ELECTRIC VEHICLES IN A RENEWABLE ENERGY SYSTEM

Leadauthor: Alexander Zerrahn (DIW Berlin)
 Coauthors: Wolf-Peter Schill
 Presenting: Alexander Zerrahn (DIW Berlin)

CONCURRENT SESSIONS 2A to 2H Monday 4 September, 4:30 p.m. - 6:00 p.m.

Session 2A: Climate II Zeremoniensaal

WHO BENEFITS FROM CLIMATE INVESTMENTS? IT DEPENDS

Leadauthor: Ulrike Lehr (GWS Institute for Economic Structures Research)
 Presenting: Ulrike Lehr (GWS Institute for Economic Structures Research)

BURNING ASSETS FOR A SUSTAINABLE FUTURE - CLIMATE FINANCE AND DIVESTMENT FROM STRANDED ASSETS IN THE CONTEXT OF THE INDC'S AND THE SUSTAINABLE DEVELOPMENT GOALS

Leadauthor: Daniel Huppmann (IIASA)
 Presenting: Daniel Huppmann (IIASA)

GERMANY'S "YES" TO RENEWABLES: JUST A QUESTION OF REACHING CO2-REDUCTION TARGETS?

Leadauthor: Stefan Voegelé (Forschungszentrum Juelich IEK-STE)
 Coauthors: Dirk Rübbecke, Phillip Mayer, Wilhelm Kuckshinrichs
 Presenting: Stefan Voegelé (Forschungszentrum Juelich IEK-STE)

INFLUENCES OF TRUMP'S ENERGY POLICY ON THE WORLD'S EFFORTS TO COMBAT CLIMATE CHANGE AND THEIR COSTS

Leadauthor: Nozomi Kato (Fujitsu Research Institute)
 Presenting: Nozomi Kato (Fujitsu Research Institute)

Session 2B: Electricity Markets II Rittersaal

INTEGRATING RES-E IN BALANCING MARKETS BY HARMONISING PROCUREMENT OF FRR IN SELECTED CENTRAL EUROPEAN COUNTRIES

Leadauthor: Bettina Burgholzer (TU Wien, EEG)
 Presenting: Bettina Burgholzer (TU Wien, EEG)

ON THE RELEVANCE OF ELECTRICITY BALANCING MARKETS IN EUROPE - A 2030 PERSPECTIVE

Leadauthor: André Ortner (TU Wien)
 Coauthors: Gerhard Totschnig
 Presenting: André Ortner (TU Wien)

BALANCING MARKETS PERFORMANCE AND ASSOCIATED COSTS: EVIDENCE FOR THE ITALIAN MARKET

Leadauthor: Lucia Visconti Parisio (University of Milan-Bicocca)
 Presenting: Lucia Visconti Parisio (University of Milan-Bicocca)

A STATISTICAL CONTEMPLATION OF BALANCING ENERGY IN AUSTRIA: RELEASED QUANTITIES OF SECONDARY AND TERTIARY CONTROL RESERVES IN THE CONTEXT OF ECONOMETRICS AND TIME SERIES ANALYSIS

Leadauthor: David Lun (Vienna University of Technology)
 Coauthors: Tara Esterl
 Presenting: Tara Esterl (AIT)

STATISTICAL ARBITRAGE IN SINGLE PRICE BALANCING MARKETS

Leadauthor: Stefan Kermer (TU Wien)
 Coauthors: Derek Bunn
 Presenting: Stefan Kermer (TU Wien)

Session 2C: Photovoltaics Geheime Ratstube

EXPLORING PATHWAYS OF SOLAR PV LEARNING IN INTEGRATED ASSESSMENT MODELS

Leadauthor: Samuel Carrara (Fondazione Eni Enrico Mattei and University of California, Berkeley)
 Coauthors: Harmen-Sytze de Boer, David Gernaat, Silvana Mima, Robert C. Pietzcker
 Presenting: Samuel Carrara (Fondazione Eni Enrico Mattei and University of California, Berkeley)

A PROSPECTIVE ECONOMIC ASSESSMENT OF RESIDENTIAL PV SELF-CONSUMPTION WITH BATTERIES AND ITS SYSTEMIC EFFECTS: THE FRENCH CASE IN 2030

Leadauthor: Hyun Jin Julie Yu (CEA)
 Presenting: Hyun Jin Julie Yu (CEA)

LARGE-SCALE SOLAR DEPLOYMENT IN THE NEW ZEALAND HYDRO BASED ELECTRICITY MARKET

Leadauthor: Stephen Poletti (University of Auckland)
 Presenting: Stephen Poletti (University of Auckland)

THE CANNIBALIZATION EFFECT OF SOLAR PHOTOVOLTAICS IN THE CALIFORNIA ELECTRICITY MARKET

Leadauthor: Javier López Prol (University of Graz)
Presenting: Javier López Prol (University of Graz)

Session 2D: Energy Efficiency II Trabantenstube

SAVING ENERGY IN INDUSTRIAL PARKS

Leadauthor: Hermann-Josef Wagner (Ruhr-Universitaet Bochum)
Presenting: Hermann-Josef Wagner (Ruhr-Universitaet Bochum)

INTEGRATED ASSESSMENT OF ENERGY EFFICIENCY MEASURES IN AN INDUSTRIAL ENERGY SUPPLY SYSTEM - A CASE STUDY OF THE GERMAN PLASTIC PROCESSING INDUSTRY

Leadauthor: Roman Flatau (Institut for Energy Economics and the Rational Use of Energy)
Coauthors: Peter Radgen
Presenting: Roman Flatau (Institut for Energy Economics and the Rational Use of Energy)

DIRECTED TECHNICAL CHANGE AND ENERGY INTENSITY DYNAMICS: STRUCTURAL CHANGE VS. ENERGY EFFICIENCY

Leadauthor: Christian Haas (Justus-Liebig University)
Coauthors: Karol Kempa
Presenting: Karol Kempa (Justus-Liebig University Giessen)

EFFICIENCY VS POWER PRICES TO MAINTAIN COMPETITIVENESS?

Leadauthor: Barbara Breitschopf (Fraunhofer ISI)
Coauthors: Vicki Duscha, Jose Antonio Ordonez
Presenting: Barbara Breitschopf (Fraunhofer ISI)

THE IMPLEMENTATION OF THE EUROPEAN ENERGY EFFICIENCY DIRECTIVE (2012/27/EU) IN AUSTRIA: WILL AUSTRIA ACHIEVE ITS EFFICIENCY TARGETS IN 2020?

Leadauthor: Guenter Simader (Austrian Energy Agency)
Coauthors: Gregor Thenius, Christoph Ploiner
Presenting: Guenter Simader (Austrian Energy Agency)

Session 2E: CO2 Emissions Künstlerzimmer

THE IMPACT OF THE EU EMISSIONS TRADING SCHEME (EU ETS) ON FIRMS' PERFORMANCE AND ENERGY EFFICIENCY

Leadauthor: GEORGIA MAKRIDOU (ESCP Europe Business School)
Coauthors: Kostas Andriosopoulos, Michael Doumpos, Emiliós Galaritis
Presenting: GEORGIA MAKRIDOU (ESCP Europe Business School)

AN ESTIMATION OF CARBON-EMISSION PRICE USING COMPARATIVE ANALOGY: A KOREAN CASE

Leadauthor: Deok Joo Lee (Seoul National University)
Coauthors: Saedaseul Moon, Taegu Kim, Kyung-Taek Kim
Presenting: Saedaseul Moon (Seoul National Univ.)

AN EMPIRICAL STUDY OF TOKYO EMISSION TRADING SCHEME: AN EXPOST ANALYSIS OF EMISSIONS FROM COMMERCIAL AND UNIVERSITY BUILDINGS

Leadauthor: Toshi H Arimura (Waseda University)
Presenting: Toshi H Arimura (Waseda University)

TRADE FLOWS AND CLIMATE TALKS: A TRADE THEORY VIEW OF UNILATERAL CARBON PRICING

Leadauthor: Geoffroy Dolphin (University of Cambridge, Judge Business School)
Coauthors: Michael Pollitt
Presenting: Geoffroy Dolphin (University of Cambridge, Judge Business School)

ENERGY AND CO2 TAXATION IN EU MEMBER STATES: AN EMPIRICAL ASSESSMENT

Leadauthor: Claudia Kettner (Austrian Institute of Economic Research (WIFO))
Coauthors: Daniela Kletzan-Slamanig
Presenting: Claudia Kettner (Austrian Institute of Economic Research (WIFO))

Session 2F: Sector Coupling I Radetzky App. I

COMBINED HEAT AND POWER PRODUCTION - VALUING FLEXIBLE OPERATION IN AN UNCERTAIN ENVIRONMENT

Leadauthor: Christoph Weber (University Duisburg-Essen)
Presenting: Christoph Weber (University Duisburg-Essen)

A SECTOR-COUPING SPATIAL OPTIMIZATION MODEL FOR THE GERMAN ELECTRICITY MARKET BRINGING GAS AND HEAT INTO THE EQUATION

Leadauthor: Jens Weibezahn (Technische Universität Berlin)
Coauthors: Alexander Weber
Presenting: Jens Weibezahn (Technische Universität Berlin)

MULTI-OBJECTIVE OPTIMIZATION OF URBAN ENERGY SYSTEMS CONSIDERING HIGH SHARES OF RENEWABLE ENERGY GENERATION

Leadauthor: Andreas Fleischhacker (TU Wien)
Coauthors: Georg Lettner, Hans Auer
Presenting: Hans Auer (TU Wien)

MODELLING THE ADOPTION AND DIFFUSION OF HEAT AND ELECTRICITY SELF-SUPPLY FOR VARIOUS REPRESENTATIVE CONSUMERS AND ITS EFFECTS ON THE ELECTRICITY MARKET

Leadauthor: Philipp Oehler (Fraunhofer ISI)
Coauthors: Jenny Winkler
Presenting: Philipp Oehler (Fraunhofer ISI)

PROSPECTS FOR SECTOR COUPLING BETWEEN ELECTRICITY AND TRANSPORT BY MEANS OF PRODUCING HYDROGEN

Leadauthor: Amela Ajanovic (TU Wien)
Coauthors: Reinhard Haas
Presenting: Amela Ajanovic (TU Wien)

Session 2G: Flexibility & Storage I Maria Theresien App. I

OPTIMAL STORAGE IN A RENEWABLE SYSTEM - IGNORING RENEWABLE FORECAST IS NOT A GOOD IDEA!

Leadauthor: Joachim Geske (Imperial College Business School)
Coauthors: Richard Green
Presenting: Joachim Geske (Imperial College Business School)

THE WELFARE EFFECTS OF STRATEGIC STORAGE USE IN A DEREGULATED ENERGY MARKETS

Leadauthor: Olayinka o Williams (Imperial college Business School)
Coauthors: Richard Green
Presenting: Olayinka o Williams (Imperial college Business School)

ANALYSIS OF SEVERAL FLEXIBILITY OPTIONS TO IMPROVE WIND POWER INTEGRATION

Leadauthor: Sannamari Pilpola (Aalto University)
Coauthors: Peter D. Lund
Presenting: Sannamari Pilpola (Aalto University)

LEAFS - ASSESSMENT OF ELECTRICITY STORAGE SYSTEMS AND FLEXIBLE LOADS IN THE DISTRIBUTION GRID

Leadauthor: Fabian Moisl (TU Wien - Energy Economics Group)
Coauthors: Georg Lettner, Wolfgang Prügler
Presenting: Fabian Moisl (TU Wien - Energy Economics Group)

ESTIMATING THE CAPACITY CREDIT OF DEMAND RESPONSE IN THE GERMAN ELECTRICITY MARKET

Leadauthor: Hamid Aghaie (AIT Austrian Inst. of Technology)
Presenting: Hamid Aghaie (AIT Austrian Inst. of Technology)

Session 2H: Transport II Radetzky App. III

THE INTERACTIONS BETWEEN CONVENTIONAL AND ALTERNATIVE ENERGY SOURCES IN TRANSPORT SECTOR, ECONOMIC GROWTH AND CO2 EMISSIONS - PANEL VAR APPROACH

Leadauthor: Sónia Neves (University of Beira Interior)
Coauthors: António Cardoso Marques, José Alberto Fuinhas
Presenting: Sónia Neves (University of Beira Interior)

CAN TECHNICAL IMPROVEMENT IN MOTOR VEHICLES REDUCE REFINED FUELS USE? A PARTIAL AND GENERAL EQUILIBRIUM ANALYSIS

Leadauthor: Gioele Figus (University of Strathclyde)
Presenting: Gioele Figus (University of Strathclyde)

PATHWAYS FOR DECARBONIZING THE ROAD TRANSPORT SECTOR - THE EXAMPLE OF GERMANY

Leadauthor: Broghan Helgeson (ewi Energy Research & Scenarios)
Coauthors: Simon Paulus, Jakob Peter
Presenting: Broghan Helgeson (ewi Energy Research & Scenarios)

ENERGY TRANSITION IN TRANSPORTATION UNDER COST UNCERTAINTY-AN ASSESSMENT BASED ON ROBUST OPTIMIZATION

Leadauthor: Emmanuel Hache (IFPEN)
Coauthors: Claire Nicolas, Stéphane Tchung-Ming
Presenting: Emmanuel Hache (IFPEN)

EFFICIENCY AND OPTIMAL HEDGE RATIO OF THE ETHANOL MARKET IN THE US

Leadauthor: Anthony Paris (IFP Energies nouvelles)
Coauthors: Emmanuel Hache
Presenting: Anthony Paris (IFP Energies nouvelles)

CONCURRENT SESSIONS 3A - 3H

Tuesday 5 September, 11:00 a.m. - 12:30 p.m.

**Session 3A: Climate III
Zeremoniensaal**

ACHIEVABILITY OF THE PARIS AGREEMENTS' TARGETS IN THE EU - IMPLICATIONS FROM A COMBINED BOTTOM-UP MODELLING AND BUDGET APPROACH

Leadauthor: Vicki Duscha (Fraunhofer Institute for Systems and Innovation Research (ISI))
Coauthors: Jakob Wachsmuth, Alexandra Denishchenkova
Presenting: Alexandra Denishchenkova (Fraunhofer Institute for Systems and Innovation Research (ISI))

BENCHMARKING OPTIONS FOR THE EFFECTIVE ACHIEVEMENT OF THE RENEWABLE ENERGY TARGET OF THE EU ENERGY STRATEGY BY 2030

Leadauthor: Lukas Liebmann (TU Wien, Energy Economics Group)
Coauthors: Gustav Resch, Christoph Zehetner
Presenting: Lukas Liebmann (TU Wien, Energy Economics Group)

MODELING AN ENERGY SYSTEM BASED ON 100% RENEWABLES FOR EUROPE

Leadauthor: Konstantin Loeffler (DIW Berlin)
Coauthors: Pao-Yu Oei, Christian Roland von Hirschhausen, Thorsten Burandt, Karlo Hainsch, Casimir Lorenz
Presenting: Thorsten Burandt (TU Berlin)

ELECTRICITY SECTOR TRANSFORMATION IN EUROPE - TAKING LOCAL IDIOSYNCRASIES INTO ACCOUNT

Leadauthor: Clemens Gerbaulet (TU Berlin and DIW Berlin)
Coauthors: Hanna Brauers, Pao-Yu Oei, Casimir Lorenz, Christian Roland von Hirschhausen
Presenting: Clemens Gerbaulet (TU Berlin and DIW Berlin)

**Session 3B: Electricity Markets III
Rittersaal**

EVALUATING THE NEED FOR A CAPACITY MARKET WITH WIDELY AVAILABLE DEMAND RESPONSE AND ELECTRICAL ENERGY STORAGE

Leadauthor: Agha Salman Muhammad Khan (Delft University of Technology)
Presenting: Agha Salman Muhammad Khan (Delft University of Technology)

ECONOMIC INEFFICIENCIES OF COST-BASED ELECTRICITY MARKET DESIGNS

Leadauthor: Francisco David Munoz (Universidad Adolfo Ibanez)
Coauthors: Sonja Wogrin, Shmuel S Oren, Benjamin F Hobbs
Presenting: Francisco David Munoz (Universidad Adolfo Ibanez)

THE IMPACT OF MARKET DESIGN ON TRANSMISSION AND GENERATION INVESTMENT IN ELECTRICITY MARKETS

Leadauthor: Christian Sölch (University Erlangen-Nürnberg)
Coauthors: Veronika Grimm, Gregor Zöttl, Bastian Rückel
Presenting: Christian Sölch (University Erlangen-Nürnberg)

VOLATILITY SPILLOVERS IN EU ELECTRICITY MARKETS

Leadauthor: Erlendur Jonsson (University of Stavanger)
Coauthors: Sindre Lorentzen, Roy Endré Dahl
Presenting: Erlendur Jonsson (University of Stavanger)

**Session 3C: Heating & Cooling I
Geheime Ratstube**

SCENARIOS FOR HEATING AND COOLING DEMAND IN THE EUROPEAN RESIDENTIAL SECTOR UNTIL 2030

Leadauthor: Sebastian Forthuber (TU Wien)
Coauthors: Michael Hartner, Lukas Kranzl, Andreas Müller
Presenting: Sebastian Forthuber (TU Wien)

ELECTRICITY DEMAND FROM HEATING AND COOLING IN EUROPE UNTIL 2030

Leadauthor: Michael Hartner (TU Wien)
Presenting: Michael Hartner (TU Wien)

FORECASTING SHORT-TERM HEAT LOAD USING ARTIFICIAL NEURAL NETWORKS: THE CASE OF A MUNICIPAL DISTRICT HEATING SYSTEM

Leadauthor: Pablo Benalcazar (Mineral and Energy Economy Research Institute, Polish Academy of Sciences)
Coauthors: Jacek Kaminski
Presenting: Pablo Benalcazar (Mineral and Energy Economy Research Institute, Polish Academy of Sciences)

AN ASSESSMENT OF UNUTILIZED HEAT SOURCES AND DISTRIBUTED ENERGY TECHNOLOGIES BY AN ENERGY NETWORK MODEL WITH 151 SUBREGIONS OF TOKYO KOTO AREA

Leadauthor: Shunsuke Mori (Tokyo University of Science)
Coauthors: Yasutomo Tejima, Shiho Nakayama, Satoshi Ohnishi
Presenting: Shunsuke Mori (Tokyo University of Science)

HEAT DENSITY MAPS OF EUROPE AND WAYS TO IMPROVE THE ACCURACY

Leadauthor: Mostafa Fallahnejad (TU Wien)
Presenting: Mostafa Fallahnejad (TU Wien)

JOINT UTILIZATION OF DEMAND SIDE FLEXIBILITY OF HEATING DEVICES AND HEATING GRIDS WITH BENEFITS FOR ENERGY SUPPLIERS AND CUSTOMERS

Leadauthor: Markus Puchegger (Forschung Burgenland GmbH)
Presenting: Markus Puchegger (Forschung Burgenland GmbH)

**Session 3D: Energy Efficiency III
Trabantenstube**

CONSUMER INATTENTION, HEURISTIC THINKING AND THE ROLE OF ENERGY LABELS

Leadauthor: Mark Andor (RWI Leibniz Institute for Economic Research)
Coauthors: Stephan Sommer, Andreas Gerster
Presenting: Mark Andor (RWI Leibniz Institute for Economic Research)

HOW MUCH DO LABELS ACTUALLY MATTER FOR ELECTRICITY SAVINGS? SINGAPORE'S CASE FOR RESIDENTIAL AIR-CONDITIONER PURCHASES AND USAGE BEHAVIOUR.

Leadauthor: Tian Sheng Loi (Energy Studies Institute)
Coauthors: Anthony Owen, Yujia Tao, Yaxian Xu, Wanting Lin, Huey Shyuan Goh
Presenting: Tian Sheng Loi (Energy Studies Institute)

ENERGY EFFICIENCY LABELS - WHO CARES? A DEMOGRAPHIC ASSESSMENT OF CONSUMER ATTITUDES TO EXISTING AND NOVEL EFFICIENCY LABELS

Leadauthor: Eleanor Denny (Trinity College
Dublin)
Presenting: Eleanor Denny (Trinity College Dublin)

THE ROLE OF ENERGY AND INVESTMENT LITERACY FOR RESIDENTIAL ELECTRICITY DEMAND AND END-USE EFFICIENCY

Leadauthor: Nilkanth Kumar (ETH Zürich)
Coauthors: Nina Boogen, Julia Blasch, Massimo
Filippini
Presenting: Nina Boogen (ETH Zürich)

THE ROLE OF ENERGY LITERACY AS A COMPONENT OF FINANCIAL LITERACY: SURVEY-BASED EVIDENCE FROM FINLAND

Leadauthor: Panu Kalmi (University of Vaasa)
Coauthors: Gianluca Trotta, Andrius Kazukauskas
Presenting: Gianluca Trotta (University of Vaasa)

INVESTMENT LITERACY AND CHOICE OF ELECTRIC APPLIANCES: THE IMPACT OF EDUCATIONAL PROGRAMS AND ONLINE SUPPORT TOOLS

Leadauthor: Julia Blasch (Vrije Universiteit
Amsterdam)
Coauthors: Nilkanth Kumar, Massimo Filippini,
Adán Martínez Cruz
Presenting: Julia Blasch (Vrije Universiteit
Amsterdam)

Session 3E: Electricity Grid Perspectives Künstlerzimmer

HOW TO REDESIGN THE ROLE OF THE ELECTRICITY DISTRIBUTION SYSTEM OPERATORS?

Leadauthor: Patricia Pereira da Silva (FEUC,
INCESCC, CeBER)
Coauthors: Guillermo Pereira
Presenting: Patricia Pereira da Silva (FEUC,
INCESCC, CeBER)

THE RISE OF VALUE NETWORKS IN THE POWER SECTOR: THE END OF UTILITIES?

Leadauthor: Anjali Nursimulu (EPFL)
Presenting: Anjali Nursimulu (EPFL)

FROM OPERATING ENERGY NETWORKS TO MANAGING ENERGY SYSTEMS: HOW ELECTRICITY DISTRIBUTION FIRMS ARE PAVING THE WAY FOR NEW AND INNOVATIVE BUSINESS MODELS IN ENERGY DISTRIBUTION - A FOCUS ON THE CASE OF FRANCE

Leadauthor: Telman Azarmahd (Enedis)
Presenting: Telman Azarmahd (Enedis)

ENERGY SERVICES INNOVATION AT THE EDGES OF DISTRIBUTION GRIDS - A BUSINESS MODEL PERSPECTIVE

Leadauthor: Nico Keyaerts (Vlerick Business
School)
Presenting: Nico Keyaerts (Vlerick Business
School)

INNOVATION INCENTIVES FOR ELECTRICITY NETWORKS TO ENABLE GRID EDGE TRANSFORMATION

Leadauthor: Rahmat Poudineh (Oxford Institute
for Energy Studies)
Presenting: Rahmat Poudineh (Oxford Institute for
Energy Studies)

Session 3F: Prosumer Radetzky App. I

THE ECONOMICS OF PROSUMAGE: QUANTIFICATION OF BUSINESS OPPORTUNITIES IN GERMANY, CALIFORNIA, AUSTRALIA, INDIA, AND SOUTH AFRICA

Leadauthor: Charlotte Rochell (TU Berlin)
Coauthors: Clemens Gerbaulet, Maximilian Eissler,
Ralf Ott, Philipp Zorn
Presenting: Philipp Zorn (TU Berlin)

THE FLEXIBLE PROSUMER: CUSTOMER CO-CREATION OF ANCILLARY SERVICES IN SMART GRIDS

Leadauthor: Merla Kubli (University of St. Gallen
IWÖ-HSG)
Coauthors: Rolf Wüstenhagen, Moritz Looch
Presenting: Rolf Wüstenhagen (University of St.
Gallen IWÖ-HSG)

COSTING NETWORK SERVICES FOR CONSUMERS WITH PV SELF-GENERATION

Leadauthor: Mathieu Bordigoni (Enedis)
Coauthors: Laurent GILOTTE
Presenting: Laurent GILOTTE (Enedis)

DESIGNING NEW PRICING SCHEMES FOR PROSUMERS

Leadauthor: Golnoush Soroush (Politecnico di
Torino)
Coauthors: Carlo Cambini
Presenting: Golnoush Soroush (Politecnico di
Torino)

ACTIVE INTRATEMPORAL PROSUMER BIDDING

Leadauthor: Christian Spindler (University of
Vienna)
Coauthors: Oliver Woll
Presenting: Christian Spindler (University of
Vienna)
Presenting: Christian Spindler (University of
Vienna)

Session 3G: Oil I Maria Theresien App. I

OIL DEPENDENCE AND OIL SHOCKS IMPACTS: EUROPE VS. UNITED STATES

Leadauthor: Verónica Acurio Vásquez (Université
de Lorraine)
Presenting: Verónica Acurio Vásquez (Université
de Lorraine)

CHANGES OF INTERNATIONAL OIL TRADE PATTERN AFTER OIL PRICE DROP

Leadauthor: Qier An (Petro China)
Coauthors: Ming Zhu, Debin Qu, Meng Zhao
Presenting: Qier An (Petro China)

SURVIVAL OF THE FITTEST: US OIL PRODUCTIVITY DURING BUSINESS CYCLES

Leadauthor: Kristin Helen Roll (University College
of Southeast Norway)
Coauthors: Roy Endré Dahl
Presenting: Kristin Helen Roll (University College
of Southeast Norway)

LEVERAGE AND THE OIL INDUSTRY - ANALYSIS ON THE FIRM AND PRODUCTION LEVEL

Leadauthor: Johannes Lips (Justus-Liebig
University)
Presenting: Johannes Lips (Justus-Liebig
University)

Session 3H: Biomass Radetzky App. III

BIOMASS POTENTIAL: STATIC AND DYNAMIC, LONG TERM AND SHORT TERM

Leadauthor: Jaroslav Knápek (Czech Technical
University in Prague, Fac. of Electrical Engineering)
Coauthors: Kamila Vávrová, Jan Weger, Tomáš
Králik
Presenting: Jaroslav Knápek (Czech Technical
University in Prague, Fac. of Electrical Engineering)

THE FLEXIBLE USE OF BIOMASS IN THE ELECTRICITY MARKET - A CASE STUDY OF GERMANY

Leadauthor: Benjamin Fleischer (University of
Stuttgart - IER)
Presenting: Benjamin Fleischer (University of
Stuttgart - IER)

BIOMASS ENERGY USE, PRICE CHANGES AND IMPERFECT LABOR MARKET IN RURAL CHINA: AN AGRICULTURAL HOUSEHOLD MODEL-BASED ANALYSIS

Leadauthor: Qiu Chen (Center for Development
Research, University of Bonn)
Presenting: Qiu Chen (Center for Development
Research, University of Bonn)

QUANTIFYING EXTERNAL EFFECTS OF BIOMASS PLANTS

Leadauthor: Julia Rechlitz (DIW Berlin)
Coauthors: Alexander Zerrahn, Christian Krekel,
Johannes Rode
Presenting: Julia Rechlitz (DIW Berlin)

AN ANALYSIS ON THE PROJECT STRUCTURE TO EXPAND RENEWABLE ENERGY -- A CASE STUDY OF THE MANIWA BIOMASS PROJECT IN JAPAN BY CHECKING FROM THE VIEWPOINT OF PPP (PUBLIC PRIVATE PARTNERSHIP) --

Leadauthor: Yoshiki Ogawa (Toyo University)
Presenting: Yoshiki Ogawa (Toyo University)

RENEWABLE ENERGY TRADE IN EUROPE: EFFICIENT USE OF BIOFUELS

Leadauthor: Robert Lundmark (Luleå university of
technology)
Presenting: Robert Lundmark (Luleå university of
technology)

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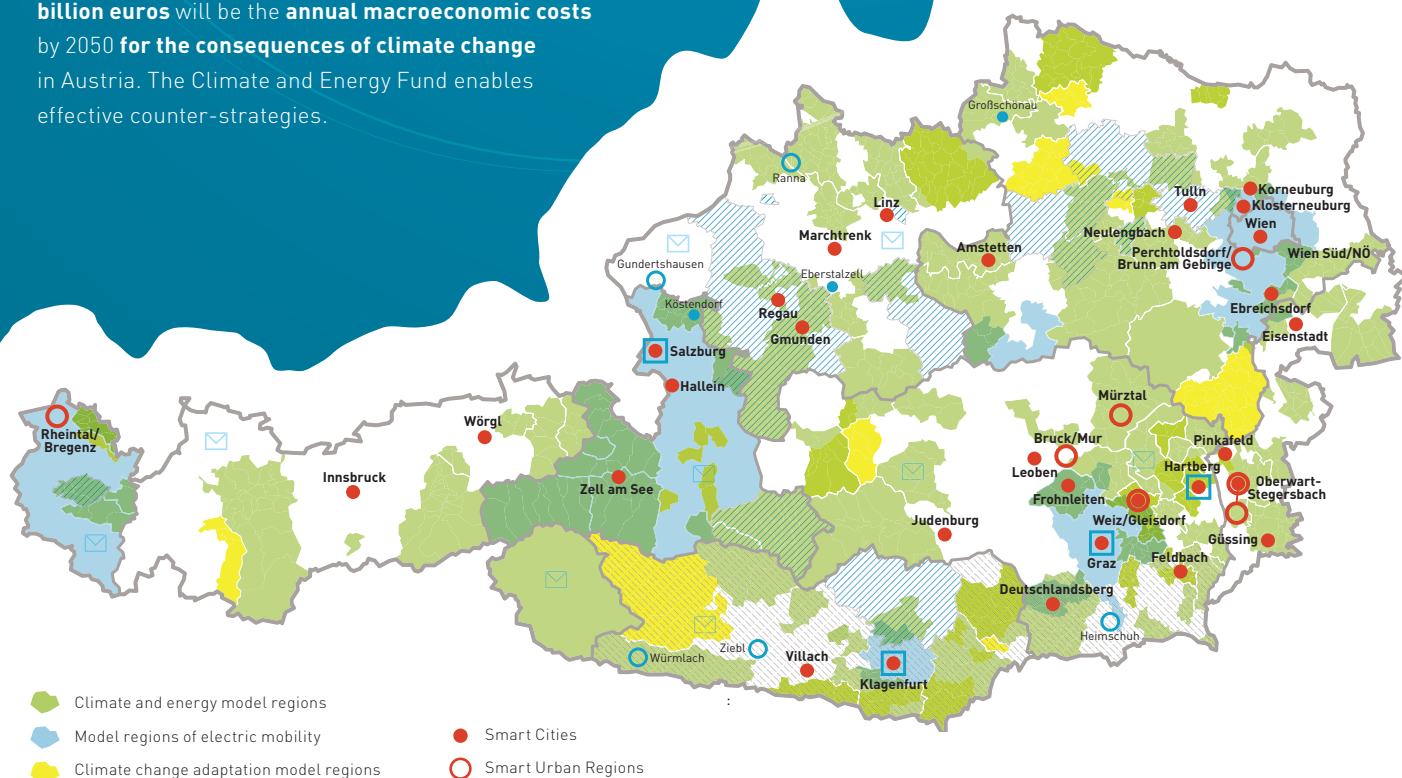
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Concurrent Sessions 4A to 4H
Tuesday 5 September, 4:30 p.m. - 6:00 p.m.

Session 4A: Climate IV
Zeremoniensaal

THE NEXUS OF CO2 EMISSIONS, ENERGY CONSUMPTION, ECONOMIC GROWTH, AND TRADE-OPENNESS IN WTO COUNTRIES
Leadauthor: Anne Neumann (Universität Potsdam)
Coauthors: Lars Sorge
Presenting: Anne Neumann (Universität Potsdam)

DO THE ENERGY SUPPLY IMPACTS ON ECONOMIC GROWTH EQUAL THAN ENERGY CONSUMPTION? AN AUGMENTED ENERGY-GROWTH NEXUS APPROACH
Leadauthor: Luís Miguel Marques (University of Beira Interior)
Coauthors: António Cardoso Marques, José Alberto Fuinhas
Presenting: Luís Miguel Marques (University of Beira Interior)

JOINING A CARBON-POLICIES COALITION: FLEXIBLE MECHANISMS, COMPETITIVENESS AND ANTI-LEAKAGE INSTRUMENTS IN EUROPE
Leadauthor: Brita Bye (Statistics Norway)
Coauthors: Orvika Rosnes, Taran Faehn, Christoph Böhringer
Presenting: Brita Bye (Statistics Norway)

INFLUENCE OF ENVIRONMENTAL POLICY AND MARKET FORCES ON COAL-FIRED POWER PLANTS: EVIDENCE ON THE DUTCH MARKET OVER 2006-2014
Leadauthor: Machiel Mulder (University of Groningen)
Presenting: Machiel Mulder (University of Groningen)

Session 4B: Electricity Markets IV
Rittersaal

CALIFORNIA DREAMIN - AMBITIOUS OBJECTIVES AND RAPID TRANSITION IN THE ELECTRICITY MARKET
Leadauthor: Farhad Billimoria (Australian Energy Market Operator)
Presenting: Farhad Billimoria (Australian Energy Market Operator)

OPTIMAL PRIZE ZONES FOR THE GERMAN ELECTRICITY MARKET
Leadauthor: Mirjam Ambrosius (FAU Erlangen-Nürnberg)
Coauthors: Veronika Grimm, Gregor Zöttl, Frauke Liers, Martin Schmidt
Presenting: Mirjam Ambrosius (FAU Erlangen-Nürnberg)

IMPACT OF ELECTRICITY MARKET REFORM ON CO2 EMISSIONS BY STATES IN THE U.S AND ITS IMPLICATION
Leadauthor: Takako Wakiyama (The University of Sydney)
Coauthors: Eric Zusman, Monogan James E.
Presenting: Takako Wakiyama (The University of Sydney)

SUPPLY AND CLIMATE MARKET MODEL WITH NATIONAL CO2 LEVIES
Leadauthor: Eike Blume-Werry (TU Wien)
Presenting: Eike Blume-Werry (TU Wien)

Session 4C: Heating & Cooling II
Geheime Ratstube

FAVOURABLE POLICY FRAMEWORKS TO ENSURE THE FUTURE OF DISTRICT HEATING IN EASTERN EUROPEAN COUNTRIES - THE CASE OF BRASOV
Leadauthor: Richard Büchele (TU Wien)
Coauthors: Lukas Kranzl
Presenting: Richard Büchele (TU Wien)

THIRD PARTY ACCESS FOR DISTRICT HEATING: FIRST STEPS TO UNBUNDLING THE HEATING SECTOR?
Leadauthor: Lukas Kranzl (TU Wien)
Presenting: Lukas Kranzl (TU Wien)

OPTIMAL DIVERSIFICATION OF LARGE-SCALE DISTRICT HEATING GENERATION PORTFOLIOS IN AUSTRIA
Leadauthor: Nikolaus Rab (EEG, TU Wien)
Presenting: Nikolaus Rab (EEG, TU Wien)

CHALLENGES TO MAKE HEATING RENEWABLE: EMPIRICAL RESULTS FROM SIX EUROPEAN CASE STUDIES
Leadauthor: Edith Chassein (IREES GmbH)
Coauthors: Christian Gollmer, Annette Roser
Presenting: Edith Chassein (IREES GmbH)

DISTRICT HEATING SYSTEMS UNDER HIGH CARBON PRICES: THE ROLE OF THE PASS-THROUGH FROM EMISSION PRICES TO POWER PRICES
Leadauthor: Sebastian Wehrle (Wiener Stadtwerke Holding AG)
Coauthors: Johannes Schmidt
Presenting: Sebastian Wehrle (Wiener Stadtwerke Holding AG)

Session 4D: Pricing Schemes for Electricity
Trabantenstube

THE IMPACT OF HIGHER RETAIL ENERGY PRICES ON INTERGENERATIONAL WELFARE IN SAUDI ARABIA
Leadauthor: Frédéric Gonand (University Paris-Dauphine)
Coauthors: Lester Hunt, Fakhri Hasanov
Presenting: Frédéric Gonand (University Paris-Dauphine)

HOUSEHOLDS' TECHNOLOGY CHOICES AND LONG-RUN ENERGY PRICE SENSITIVITY
Leadauthor: Anna Sahari (Aalto University)
Presenting: Anna Sahari (Aalto University)

PRICE VOLATILITY IN THE ELECTRICITY MARKET: A CLUSTER ANALYSIS
Leadauthor: Kun Li (Beijing Normal University, Business School)
Coauthors: Joseph Cursio
Presenting: Kun Li (Beijing Normal University, Business School)

IMPLEMENTATION OF VARIABLE RETAIL ELECTRICITY RATES IN THE GERMAN SYSTEM OF TAXES, FEES AND LEVIES
Leadauthor: Michael Hinterstocker (Forschungsgesellschaft für Energiewirtschaft mbH)
Coauthors: Serafin von Roon
Presenting: Michael Hinterstocker (Forschungsgesellschaft für Energiewirtschaft mbH)

Session 4E: Renewables I
Künstlerzimmer

THE ECONOMICS OF SOLAR PHOTOVOLTAIC (PV) ENERGY
Leadauthor: Carlo Andrea Bollino (Univ of Perugia)
Coauthors: Amro Elshurafa, Shahad Albardi, Simona Bigerna
Presenting: Carlo Andrea Bollino (Univ of Perugia)

PROFITABILITY ANALYSIS OF PV-INSTALLATIONS FOR MULTI-APARTMENT BUILDINGS
Leadauthor: Bernadette Fina (TU Wien, EEG)
Coauthors: Andreas Fleischhacker, Hans Auer
Presenting: Bernadette Fina (TU Wien, EEG)

PHOTOVOLTAIC SELF-CONSUMPTION REGULATION IN SPAIN: PROFITABILITY ANALYSIS AND ALTERNATIVE REGULATION SCHEMES
Leadauthor: Javier López Prol (University of Graz)
Coauthors: Karl Steininger
Presenting: Karl Steininger (University of Graz)

PROSUMAGE OF SOLAR ELECTRICITY - THE ROLE OF POWER-TO-HEAT
Leadauthor: Wolf-Peter Schill (DIW Berlin)
Coauthors: Alexander Zerrahn, Friedrich Kunz
Presenting: Wolf-Peter Schill (DIW Berlin)

Session 4F: Renewable Policy I
Radetzky App. I

PURE OR HYBRID?: POLICY OPTIONS FOR RENEWABLE ENERGY
Leadauthor: Ryuta Takashima (Tokyo University of Science)
Coauthors: Yihsu Chen, Makoto Tanaka, Yuta Kamobayashi
Presenting: Ryuta Takashima (Tokyo University of Science)

RENEWABLE ENERGY POLICIES UNDER UNCERTAINTY: COMMITMENT VS. DISCRETION
Leadauthor: Florian Habermacher (University of St. Gallen)
Coauthors: Paul Lehmann
Presenting: Paul Lehmann (Helmholtz Centre for Environmental Research - UFZ)

DISCRIMINATORY AUCTIONS FOR RENEWABLE ENERGY SUPPORT - INSTRUMENTS, EFFECTS AND POLITICAL CONFLICTS
Leadauthor: Jan Kreiss (Takon)
Coauthors: Karl-Martin Ehrhart, Marie-Christin Haufe, Matej Belica
Presenting: Jan Kreiss (Takon)

Concurrent Sessions 4F - 5C

THE CURRENT POLICY ISSUES FOR RENEWABLE PORTFOLIO STANDARD IN SOUTH KOREA

Leadauthor: Tae-Hyeong Kwon (Hankuk University of Foreign Studies)
Presenting: Tae-Hyeong Kwon (Hankuk University of Foreign Studies)

Session 4G: Flexibility & Storage II Maria Theresien App. I

CURRENT AND IMPROVED BUSINESS MODELS OF AGGREGATORS IN EUROPEAN TARGET COUNTRIES

Leadauthor: Daniel Schwabeneder (TU Wien)
Coauthors: Andreas Fleischhacker, Georg Lettner
Presenting: Daniel Schwabeneder (TU Wien)

FLEXIBILITY FOR MARKETS AND GRIDS: ECONOMIC AND TECHNICAL EVALUATION OF THE HYBRID-VPP CONCEPT

Leadauthor: Tara Esterl (AIT)
Coauthors: Christoph Gutsch, Jan Bleyl, Georg Lettner, Gregor Taljan, Ursula Krisper, Ernst Meissner, Simon-Marcel Stukelj, Johanna Spreitzhofer
Presenting: Tara Esterl (AIT)

REDUCING ELECTRICITY SYSTEM COSTS WITH ENERGY STORAGE: THE ROLE OF CONSUMER TYPES AND MARKET COORDINATION

Leadauthor: Giorgio Castagneto Gisse (UCL Energy Institute)
Coauthors: Dina Subkhankulova
Presenting: Giorgio Castagneto Gisse (UCL Energy Institute)

THE VALUE OF FLEXIBILITY OPTIONS FROM AN OPERATOR'S PERSPECTIVE

Leadauthor: Steffi Schreiber (Dresden University of Technology)
Coauthors: Theresa Müller
Presenting: Steffi Schreiber (Dresden University of Technology)

AN ANALYSIS ON VARIABLE RENEWABLE ENERGY AND THE IMPORTANCE OF HYBRID SYSTEMS IN INDIA

Leadauthor: Karthik Subramanya Bhat (Graz University of Technology)
Coauthors: Udo Bachhiesl, Heinz Stigler
Presenting: Karthik Subramanya Bhat (Graz University of Technology)

Session 4H: Energy Demand of Households I Radetzky App. III

EXTRAPOLATING HOUSEHOLD AND LINE LOAD DATA FOR LOAD PROJECTIONS

Leadauthor: Benedikt Eberl (FFE GmbH)
Coauthors: Michael Hinterstocker, Serafin von Roon
Presenting: Benedikt Eberl (FFE GmbH)

IMPACTS OF RESIDENTIAL ENERGY EFFICIENCY AND ELECTRIFICATION OF HEATING ON ENERGY MARKET PRICES

Leadauthor: Christian Calvillo (University of Strathclyde)
Coauthors: Karen Turner, Keith Bell, Peter McGregor
Presenting: Christian Calvillo (University of Strathclyde)

THE EFFECT OF GOOGLE TRENDS DATA ON RESIDENTIAL ELECTRICITY DEMAND

Leadauthor: Sungjun Park (Hanyang University)
Presenting: Sungjun Park (Hanyang University)

PROMOTING ENERGY EFFICIENT BEHAVIOUR: AN ECONOMETRIC ANALYSIS OF THE IMPACT OF INFORMATION ON HOUSEHOLD APPLIANCE COMPOSITION REGARDING ENERGY EFFICIENCY

Leadauthor: Casper Bjerregaard (DTU)
Coauthors: Niels Framroze Møller
Presenting: Casper Bjerregaard (DTU)

Concurrent Sessions 5A to 5H Wednesday 6 September, 9:00 a.m. - 10:30 a.m.

Session 5A: Climate V Zeremoniensaal

SENSITIVITY OF CLIMATE ABATEMENT COSTS ESTIMATES TO TECHNOLOGICAL AND REGIONAL DETAILS: A CASE STUDY OF THE EUROPEAN UNION

Leadauthor: Gabriele Standardi (Fondazione Eni Enrico Mattei)
Coauthors: Sonia Yeh, Cai Yiyong
Presenting: Sonia Yeh (Chalmers University of Technology)

THE EFFECTS OF URBANIZATION ON ENERGY CONSUMPTION AND GREENHOUSE GAS EMISSIONS IN ASEAN COUNTRIES: A DECOMPOSITION ANALYSIS

Leadauthor: PHUONG Khuong Minh (Institute of Industrial Production, Karlsruhe Institute of Technology (KIT), Germany)
Coauthors: Russell McKenna, Wolf Fichtner
Presenting: PHUONG Khuong Minh (Institute of Industrial Production, Karlsruhe Institute of Technology (KIT), Germany)

CONSUMER PREFERENCES AND THE ENERGY TRANSITION

Leadauthor: Alessandra Motz (Istituto di Ricerche Economiche)
Coauthors: Rico Maggi
Presenting: Alessandra Motz (Istituto di Ricerche Economiche)

EVALUATING THE EU'S ENERGY INNOVATION SYSTEM

Leadauthor: Yeong Jae Kim (Tyndall Center for Climate Change Research)
Coauthors: Charlie Wilson
Presenting: Yeong Jae Kim (Tyndall Center for Climate Change Research)

Session 5B: Transmission Planning & Price Zones Rittersaal

NATIONAL-STRATEGIC CROSS-BORDER TRANSMISSION INVESTMENT AND ZONAL PRICING

Leadauthor: Jonas Egerer (FAU Erlangen-Nürnberg / EnCN)
Presenting: Jonas Egerer (FAU Erlangen-Nürnberg / EnCN)

ROBUST TRANSMISSION PLANNING - AN APPLICATION TO THE CASE OF GERMANY IN THE EUROPEAN CONTEXT TO 2050

Leadauthor: Alexander Weber (TU Berlin, FG WIP, H33)
Coauthors: Clemens Gerbaulet, Christian Roland von Hirschhausen, Jens Weibezahn
Presenting: Christian Roland von Hirschhausen (TU Berlin / DIW Berlin)

DYNAMIC QUALITY REGULATION OF THE ELECTRICITY GRID

Leadauthor: Jonathan Barth (University of Oldenburg)
Coauthors: Klaus Eisenack, Ulrike Feudel, Jasper Nikolaus Meya
Presenting: Jonathan Barth (University of Oldenburg)

OPTIMAL ALLOCATION OF TRANSMISSION CAPACITY BETWEEN RESERVE PROCUREMENT AND ELECTRICITY SPOT MARKET

Leadauthor: Julia Bellenbaum (University of Duisburg-Essen)
Presenting: Julia Bellenbaum (University of Duisburg-Essen)

Session 5C: Oil II Geheime Ratstube

DYNAMIC PRICE RELATIONSHIP IN CRUDE OIL MARKETS

Leadauthor: Roy Endré Dahl (University of Stavanger)
Presenting: Roy Endré Dahl (University of Stavanger)

A MACROECONOMIC ANALYSIS OF LIFTING THE U.S. CRUDE EXPORT BAN

Leadauthor: Mine Yuçel (Federal Reserve Bank of Dallas)
Coauthors: Nida Cakir Melek, Michael Plante
Presenting: Mine Yuçel (Federal Reserve Bank of Dallas)

DETERMINING OIL PRICE DRIVERS WITH DYNAMIC MODEL AVERAGING

Leadauthor: Krzysztof Drachal (University of Warsaw)
Presenting: Krzysztof Drachal (University of Warsaw)

OIL PRICES AND THE RENEWABLE ENERGY SECTOR

Leadauthor: Evangelos Kyritsis (Norwegian School of Economics)
Coauthors: Apostolos Serletis
Presenting: Evangelos Kyritsis (Norwegian School of Economics)

**Session 5D: Balancing
Trabantenstube**

NORWAY AS A FLEXIBILITY PROVIDER FOR A LOW-CARBON EUROPEAN ENERGY SYSTEM
 Leadauthor: Christian Skar (Norwegian University of Science and Technology)
 Coauthors: Kjetil Midthun, Asgeir Tomasgard
 Presenting: Christian Skar (Norwegian University of Science and Technology)

HOW TO INCENTIVIZE SHORT-TERM FLEXIBILITY RESOURCES IN ELECTRICITY BALANCING GROUPS - INTERNATIONAL COMPARISON OF IMBALANCE MECHANISMS IN EUROPE
 Leadauthor: Andreas Essl (IAEE/AEE TU Vienna)
 Coauthors: André Ortner, Reinhard Haas, Stefan Vögel, Philip Rodemeyer
 Presenting: Andreas Essl (IAEE/AEE TU Vienna)

PRICING RELIABILITY ON IMBALANCE PRICES IN ELECTRICITY MARKETS
 Leadauthor: Jan Abrell (ETH Zürich)
 Coauthors: Jonas Savelsberg, Hannes Weigt, Carla Mendes
 Presenting: Carla Mendes (University of Basel)

MARKET INTEGRATION VS TEMPORAL GRANULARITY: HOW TO PROVIDE NEEDED FLEXIBILITY RESOURCES?
 Leadauthor: Olivier Borne (CentraleSupélec)
 Presenting: Olivier Borne (CentraleSupélec)

**Session 5E: Hydro & Wind
Künstlerzimmer**

THE DISTRIBUTION OF INCOME IN THE SWISS HYDRO POWER SECTOR AND OPTIONS FOR REFORM
 Leadauthor: Regina Betz (CEE, Zurich University of Applied Sciences)
 Coauthors: Johanna Cludius, Thomas Geissmann
 Presenting: Regina Betz (CEE, Zurich University of Applied Sciences)

SWISS HYDROPOWER CONCESSION RENEWAL: DOES SUSTAINABILITY ASSESSMENTS LEAD TO THE STATUS QUO, UPGRADING, ABANDONING OR DECOMMISSIONING EXISTING INSTALLATIONS?
 Leadauthor: Guillaume Voegeli (University of Geneva)
 Coauthors: Ludovic Gaudard
 Presenting: Guillaume Voegeli (University of Geneva)

EFFECTS OF INCREASING WIND ENERGY SHARE IN THE GERMAN ELECTRICITY SECTOR ON THE EUROPEAN STEEL MARKET
 Leadauthor: Shivenes Shammugam (Fraunhofer Institute for Solar Energy Systems ISE)
 Coauthors: Estelle Gervais, Andreas Rathgeber, Thomas Schlegl
 Presenting: Shivenes Shammugam (Fraunhofer Institute for Solar Energy Systems ISE)

HISTORIC PATHS AND FUTURE EXPECTATIONS: THE MACROECONOMIC IMPACTS OF THE OFFSHORE WIND TECHNOLOGIES IN THE UK.
 Leadauthor: Marcello Graziano (Central Michigan University)
 Coauthors: Marta Musso, Patrizio Lecca
 Presenting: Marcello Graziano (Central Michigan University)

**Session 5F: Renewable Policy II
Radetzky App. I**

FAIRNESS AND THE WILLINGNESS TO PAY FOR RENEWABLE ENERGY
 Leadauthor: Mark Andor (RWI Leibniz Institute for Economic Research)
 Coauthors: Stephan Sommer, Manuel Frondel
 Presenting: Stephan Sommer (RWI - Leibniz-Institut für Wirtschaftsforschung)

CONSEQUENTIALITY AND THE WILLINGNESS-TO-PAY FOR RENEWABLES: EVIDENCE FROM GERMANY
 Leadauthor: Mark Andor (RWI Leibniz Institute for Economic Research)
 Coauthors: Manuel Frondel, Marco Horvath
 Presenting: Marco Horvath (RWI - Leibniz Institute for Economic Research)

THE POLITICAL ECONOMY STRUCTURES OF ENERGY TRANSITIONS: FROM SHALE GAS TO RENEWABLE ENERGY
 Leadauthor: Pami Aalto (University of Tampere)
 Coauthors: Mert Bilgin, Kim Talus
 Presenting: Pami Aalto (University of Tampere)

IMPACT OF REGULATION ON RENEWABLE ENERGY DEVELOPMENT: LESSONS FROM THE FRENCH CASE
 Leadauthor: Cyril Martin de Lagarde (Université Paris-Dauphine)
 Coauthors: Frédéric Lantz
 Presenting: Cyril Martin de Lagarde (Université Paris-Dauphine)

**Session 5G: Flexibility & Storage III
Maria Theresien App. I**

COST TRAJECTORIES FOR ELECTRICAL ENERGY STORAGE AND THEIR IMPACT ON CO2 MITIGATION
 Leadauthor: Oliver Schmidt (Imperial College London)
 Coauthors: Iain Staffell, Adam Hawkes, Kate Ward
 Presenting: Oliver Schmidt (Imperial College London)

THE IMPACT OF CHARGING INFRASTRUCTURE ON THE LOAD SHIFT POTENTIAL OF ELECTRIC VEHICLES
 Leadauthor: Anna-Lena Klingler (Fraunhofer ISI)
 Coauthors: Julia Michaelis, Till Gnann
 Presenting: Till Gnann (Fraunhofer Institute for Systems and Innovation Research ISI)

INCENTIVISING LOAD SHIFTS FROM RESIDENTIAL CUSTOMERS ARE GAMIFICATION AND NORMATIVE FEEDBACK BASED APPROACHES MORE EFFECTIVE THAN TIME BASED TARIFFS?
 Leadauthor: Patrick Jochem (Karlsruhe Institute of Technology (KIT) (IIP))
 Coauthors: Anne Schaeffer, Sven Feurer
 Presenting: Patrick Jochem (Karlsruhe Institute of Technology (KIT) (IIP))

WHAT MAKES GRIDS REALLY SMART
 Leadauthor: Marina Bertolini (Università degli Studi di Padova)
 Coauthors: Marco Buso, Luciano Giovanni Greco
 Presenting: Marina Bertolini (Università degli Studi di Padova)

LOAD MANAGEMENT AT DISTRIBUTION GRID LEVEL: A PRICING MODEL FOLLOWING THE 'POLLUTER PAYS PRINCIPLE'
 Leadauthor: Marlene Gruber (Wissenschaftszentrum Straubing)
 Coauthors: Wolfgang Mayer, Hubert Röder, Lothar Behringer
 Presenting: Marlene Gruber (Wissenschaftszentrum Straubing)

**Session 5H: Energy Demand of Households II
Radetzky App. III**

THE RELEVANCE OF GREEN AND REGIONAL IDENTITY FOR THE DEMAND FOR GREEN AND REGIONAL ELECTRICITY TARIFFS: EMPIRICAL EVIDENCE FROM A COMBINED PRIMING AND STATED CHOICE EXPERIMENT
 Leadauthor: Elke D. Groh (University of Kassel)
 Coauthors: Andreas Ziegler
 Presenting: Elke D. Groh (University of Kassel)

ANALYZING THE ENERGY EXPENDITURE FUNCTION OF SINGLE-PERSON HOUSEHOLD
 Leadauthor: Jungbae Lee (Hanyang University)
 Coauthors: Jinsoo Kim
 Presenting: Jungbae Lee (Hanyang University)

THE ROLE OF CUSTOMER LOYALTY PROGRAMS IN PROVIDING INTEGRATED ENERGY SERVICES TO RESIDENTIAL CONSUMERS
 Leadauthor: Dolšak Janez (Faculty of Economics, University of Ljubljana)
 Coauthors: Nevenka Hrovatin, Jelena Zoric
 Presenting: Dolšak Janez (Faculty of Economics, University of Ljubljana)

INFORMATION FEEDBACK FROM IN-HOME DISPLAYS AND SALIENCE EFFECTS: EVIDENCE FROM RESIDENTIAL ELECTRICITY CONSUMPTION
 Leadauthor: Isamu Matsukawa (Musashi University)
 Presenting: Isamu Matsukawa (Musashi University)

Concurrent Sessions 6A - 6F

Concurrent Sessions 6A to 6H

Wednesday 6 September, 11:00 a.m. - 12:30 p.m.

Session 6A: Climate VI Zeremoniensaal

GLOBAL COAL-PHASE-OUT AND THE INTERNATIONAL COAL MARKET: A FOCUS ON DEMAND-SIDE AND SUPPLY-SIDE POLICIES IN CHINA AND INDIA

Leadauthor: Roman Mendelevitch (Humboldt-Universität zu Berlin)

Coauthors: Pao-Yu Oei, Casimir Lorenz, Ivo Valentin Kafemann, Tim Scherwath, Franziska Holz
Presenting: Ivo Valentin Kafemann (DIW Berlin)

BLACK DIAMOND OR BLACK DEATH: THE UNITED KINGDOM'S, GERMANY'S AND POLAND'S DIVERGING TRANSITION PATHWAYS TOWARDS A FUTURE WITHOUT COAL CONSUMPTION.

Leadauthor: Hanna Brauers (DIW Berlin)

Coauthors: Pao-Yu Oei
Presenting: Hanna Brauers (DIW Berlin)

COAL PHASE-OUT SCENARIOS FOR GERMANY, UK AND THE EU

Leadauthor: Dogan Keles (Karlsruhe Institute of Technology (KIT))

Presenting: Dogan Keles (Karlsruhe Institute of Technology (KIT))

THE FUTURE OF COLOMBIAN COAL EXPORTS - INTERNATIONAL STEAM COAL MARKETS IN THE ERA OF CLIMATE POLICIES

Leadauthor: Pao-Yu Oei (TU Berlin)

Coauthors: Roman Mendelevitch
Presenting: Pao-Yu Oei (TU Berlin)

Session 6B: Electricity Markets V Rittersaal

INFORMATION DISCLOSURE IN ELECTRICITY MARKETS

Leadauthor: Ewa Lazarczyk (Reykjavik University)

Coauthors: Chloe le Coq
Presenting: Ewa Lazarczyk (Reykjavik University)

STOCHASTIC OPTIMIZATION IN ELECTRICITY MARKET MODELLING: THE EFFECTS OF UNCERTAINTIES IN CO₂ CERTIFICATE PRICES AND NETWORK EXPANSION COSTS

Leadauthor: Lena Kittel (FAU Erlangen-Nürnberg)

Coauthors: Mirjam Ambrosius, Veronika Grimm, Gregor Zöttl
Presenting: Lena Kittel (FAU Erlangen-Nürnberg)

DEVELOPMENT SCENARIOS FOR THE ELECTRICITY ECONOMY OF LITHUANIA

Leadauthor: Udo Bachhiesl (TU Graz / Institute of Electricity Economics and Energy Innovation)

Presenting: Udo Bachhiesl (TU Graz / Institute of Electricity Economics and Energy Innovation)

UNDERSTANDING THE CO-EVOLUTION OF ELECTRICITY MARKETS AND REGULATION

Leadauthor: Busra Gencer (HEC Lausanne)

Coauthors: Erik Reimer Larsen, Ann van Ackere
Presenting: Busra Gencer (HEC Lausanne)

Session 6C: Geopolitics Geheime Ratstube

EVOLUTION OF THE GLOBAL ENERGY NETWORK: SHOCKS AND RESILIENCE

Leadauthor: Aziiz Sutrisno (Eindhoven University of Technology)

Coauthors: Onder Nomaler, Floortje Alkemade
Presenting: Aziiz Sutrisno (Eindhoven University of Technology)

IRREVERSIBLE TIME COMMITMENTS FOR LNG TRADE: CONSTRAINTS ON SPATIAL MARKET INTEGRATION

Leadauthor: Atle Oglend (University of Stavanger)

Presenting: Atle Oglend (University of Stavanger)

POLICY MEASURES TARGETING A MORE INTEGRATED GAS MARKET: IMPACT ON PRICES AND ARBITRAGES

Leadauthor: Ekaterina Dukhanina (Chair on the Economics of Natural Gas)

Coauthors: Olivier Massol, François Lévêque
Presenting: Ekaterina Dukhanina (Chair on the Economics of Natural Gas)

CHOOSING BETWEEN GAS TRANSPORT ROUTES: IS THE BOOKING BEHAVIOUR OF NETWORK USERS EFFICIENT?

Leadauthor: Jann Keller (University of Groningen)

Coauthors: Machiel Mulder, Gerard H. Kuper
Presenting: Jann Keller (University of Groningen)

Session 6D: System Adequacy: Modelling And Planning Trabantenstube

HOW DETAILED VALUE OF LOST LOAD DATA IMPACT POWER SYSTEM RELIABILITY DECISIONS - A TRADE-OFF BETWEEN EFFICIENCY AND EQUITY

Leadauthor: Marten Ovaere (KU Leuven)

Coauthors: Evelyn Heylen, Stef Proost, Geert Deconinck, Dirk Van Hertem

Presenting: Marten Ovaere (KU Leuven)

IDENTIFYING RISKS IN AUCTION DESIGN: INVESTORS' AND POLICY MAKERS PERSPECTIVES IN CHILE

Leadauthor: Shahriyar Nasirov (Universidad Adolfo Ibañez)

Coauthors: Carlos Silva, Claudio Agostini
Presenting: Carlos Silva (Universidad de Chile)

SYSTEM ADEQUACY IN HYDRO RICH COUNTRIES: PROPOSING AN ENERGY AWARE INDICATOR

Leadauthor: Ingmar Schlecht (University of Basel)

Coauthors: Jonas Savelsberg, Moritz Schillinger, Hannes Weigt

Presenting: Jonas Savelsberg (Universität Basel)

INTEGRATING ELECTRICITY AND NATURAL GAS PLANNING: LINKING MODELS AND ASSESSMENT OF RECIPROCAL EFFECTS

Leadauthor: Pedro Crespo del Granado (NTNU)

Coauthors: Christian Skar, Ruud Egging
Presenting: Pedro Crespo del Granado (NTNU)

Session 6E: Energy Demand Künstlerzimmer

ELECTRICITY LOAD FORECASTING USING STRUCTURED NEURAL NETWORK

Leadauthor: Junghwan Jin (Hanyang Univ.)

Coauthors: Jinsoo Kim
Presenting: Junghwan Jin (Hanyang Univ.)

THE FUTURE OF DATA CENTRE COOLING, ENERGY CONSUMPTION AND CLIMATE CHANGE

Leadauthor: Bryan Coyne (Trinity College Dublin)

Coauthors: Eleanor Denny
Presenting: Bryan Coyne (Trinity College Dublin)

ASSESSING MODELS FOR DEMAND ESTIMATION: EVIDENCE FROM POWER MARKETS

Leadauthor: Vadim Gorski (TUM)

Coauthors: Sebastian Schwenen
Presenting: Vadim Gorski (TUM)

POLICY, TECHNOLOGY, AND ECONOMIC UNCERTAINTY: WHICH MATTERS THE MOST FOR GLOBAL ENERGY SYSTEM MODELING?

Leadauthor: David Daniels (U.S. Energy Information Administration)

Presenting: David Daniels (U.S. Energy Information Administration)

EMPIRICAL STUDY ON CONSUMER UNDERSTANDING AND SATISFACTION FOR SUBSIDIZED HOME INSULATION PERFORMANCE

Leadauthor: Mieko Fujisawa (Kanazawa University)

Presenting: Mieko Fujisawa (Kanazawa University)

Session 6F: Industry Radetzky App. I

INDUSTRY LEVEL PRODUCTION FUNCTIONS AND ENERGY USE

Leadauthor: María del P Pablo-Romero (University of Seville)

Coauthors: Antonio sanchez-braza, Alfonso Exposito

Presenting: María del P Pablo-Romero (University of Seville)

ENERGY FLEXIBILITY IN INDUSTRIES: AN ECONOMIC MODEL-BASED ANALYSIS OF PARALLEL REVENUE STREAMS FROM BATTERIES

Leadauthor: Fritz Braeuer (KIT - IIP)

Coauthors: Russell McKenna, Wolf Fichtner
Presenting: Fritz Braeuer (KIT - IIP)

ESTIMATION OF JAPANESE STEEL PRODUCT TRADE ELASTICITIES OF SUBSTITUTION

Leadauthor: Junichiro Oda (Research Institute of Innovative Technology for the Earth (RITE))

Coauthors: Takashi Homma, Keigo Akimoto
Presenting: Junichiro Oda (Research Institute of Innovative Technology for the Earth (RITE))

ENERGY METERING AND MANAGEMENT PRACTICES OF MANUFACTURING COMPANIES: A SYSTEMATIC LITERATURE REVIEW

Leadauthor: Ana Mickovic (KIT)

Presenting: Ana Mickovic (KIT)

INFLUENCE OF ENVIRONMENT-CONSCIOUS MANAGEMENT ON FINANCIAL PERFORMANCE: EVIDENCE FROM CONSTRUCTION COMPANIES IN JAPAN

Leadauthor: Mika Goto (Tokyo Institute of Technology)
Presenting: Mika Goto (Tokyo Institute of Technology)

**Session 6G: Energy Assets
Maria Theresien App. I**

A SYSTEM APPROACH FOR EVALUATING CLEAN ELECTRICITY GOALS AND THE ROLE OF FLEXIBILITY TECHNOLOGIES: THE CASE OF FRANCE

Leadauthor: Manuel Villavicencio (Université Paris Dauphine)
Presenting: Manuel Villavicencio (Université Paris Dauphine)

DETERMINANTS OF CROSS-BORDER INVESTMENT FLOWS IN ENERGY PROJECTS: QUALITATIVE VERSUS QUANTITATIVE FACTORS

Leadauthor: Yuliya Blondiau (Chair for Management of Renewable Energies, University of St. Gallen)
Presenting: Yuliya Blondiau (Chair for Management of Renewable Energies, University of St. Gallen)

FINANCIAL FEASIBILITY OF STORAGE TECHNOLOGIES IN ELECTRICITY SYSTEMS: EMPIRICAL EVIDENCE FROM CHILE

Leadauthor: Héctor Osorio (Universidad Adolfo Ibañez)
Coauthors: Shahriyar Nasirov, Carlos Silva, Claudio Agostini
Presenting: Héctor Osorio (Universidad Adolfo Ibañez)

IMPACT OF STORAGE EFFICIENCY AND CHARGING COSTS ON STORAGE PROFITABILITY IN THE ELECTRICITY MARKET

Leadauthor: Andreas Belderbos (KU Leuven)
Coauthors: Erik Delarue, Kris Kessels, William D'haeseleer
Presenting: Andreas Belderbos (KU Leuven)

**Session 6H: Renewable Energy Planning
Radetzky App. III**

CHALLENGES IN SUSTAINABLE ENERGY PLANNING: A MULTIDISCIPLINARY PERSPECTIVE

Leadauthor: Paula Ferreira (Universidade do Minho)
Presenting: Paula Ferreira (Universidade do Minho)

EFFICIENT PATHWAYS FOR THE ENERGY TRANSITION BY SOFT COUPLING OF OPTIMIZATION AND SIMULATION MODEL

Leadauthor: Marc Deissenroth (German Aerospace Center)
Coauthors: Benjamin Fleischer, Matthias Reeg, Ludger Eltrop
Presenting: Marc Deissenroth (German Aerospace Center)

THE IMPORTANCE OF PROJECT FINANCE IN THE TRANSITION TO LOW-CARBON POWER SYSTEMS - INSIGHTS FROM GERMANY

Leadauthor: Bjarne Steffen (ETH Zurich)
Presenting: Bjarne Steffen (ETH Zurich)

KNOWLEDGE SPILLOVERS FROM RENEWABLE, CLEAN, AND SMART ENERGY TECHNOLOGIES

Leadauthor: Kimmo Ollikka (VATT Institute for Economic Research)
Coauthors: Hanna-Liisa Kangas, Kim Yukeong
Presenting: Kimmo Ollikka (VATT Institute for Economic Research)

**Concurrent Sessions 7A to 7H
Wednesday 6 September, 1:30 p.m. - 3:00 p.m.**

**Session 7A: Climate VII
Zeremoniensaal**

INVESTMENT ALLOCATION WITH CAPITAL CONSTRAINTS. COMPARISON OF FISCAL REGIMES

Leadauthor: Magne Emhjellen (Petoro AS)
Presenting: Magne Emhjellen (Petoro AS)

THE TRANSFORMATION OF WORLD ENERGY GOVERNANCE

Leadauthor: Kazutomo Irie (Asia Pacific Energy Research Centre (APERC))
Presenting: Kazutomo Irie (Asia Pacific Energy Research Centre (APERC))

POTENTIAL AND COSTS FOR CO2 MITIGATION OPTIONS FOR MINERAL OIL REFINERIES IN EU-28 FOR 2050

Leadauthor: Solbin Kim (Fraunhofer ISI)
Coauthors: Matthias Rehfeldt, Andrea Herbst
Presenting: Solbin Kim (Fraunhofer ISI)

IMPLICATIONS OF DIFFERENT MITIGATION PORTFOLIOS ON STAKEHOLDER PREFERENCES

Leadauthor: Cristina Pizarro-Irizar (University of the Basque Country and BC3)
Coauthors: Mikel González-Eguino
Presenting: Mikel González-Eguino (BC3 (Basque Centre for Climate Change))

**Session 7B: Electricity Markets VI
Rittersaal**

THE POSITIVE FEEDBACK CYCLE IN THE ELECTRICITY MARKET: RESIDENTIAL SOLAR PV ADOPTION, ELECTRICITY DEMAND AND PRICES.

Leadauthor: Michael Chesser (Dublin Institute of Technology)
Coauthors: jim hanly, Damien Cassells, Nicholas Apergis
Presenting: jim hanly (dit)

MODELLING GERMAN ELECTRICITY WHOLESALE SPOT PRICES WITH A PARSIMONIOUS FUNDAMENTAL MODEL - VALIDATION & APPLICATION

Leadauthor: Philip Beran (HEMF, University of Duisburg-Essen)
Coauthors: Christian Pape, Christoph Weber
Presenting: Philip Beran (HEMF, University of Duisburg-Essen)

SPATIAL ANALYSIS OF THE MERIT-ORDER EFFECT OF WIND PENETRATION IN NEW ZEALAND

Leadauthor: Le Wen (The University of Auckland)
Coauthors: Basil Sharp
Presenting: Le Wen (The University of Auckland)

THE INFLUENCE OF VOLTAGE STABILITY ON CONGESTION MANAGEMENT COST IN A CHANGING ELECTRICITY SYSTEM

Leadauthor: Fabian Hinz (TU Dresden)
Presenting: Fabian Hinz (TU Dresden)

**Session 7C: Energy Modeling
Geheime Ratstube**

USING OPTIMIZATION MODELS FOR LONG-TERM PLANNING: AN OVERVIEW OF THE LIMITATIONS IN REPRESENTING MARKET DESIGNS, POLICY INTERVENTIONS AND AGENT BEHAVIOR

Leadauthor: Kris Poncelet (KU Leuven)
Presenting: Kris Poncelet (KU Leuven)

DEALING WITH UNCERTAINTY AND DISRUPTIVE EVENTS IN GENERATION EXPANSION OPTIMIZATION MODELS

Leadauthor: Tim Mertens (KU Leuven)
Presenting: Tim Mertens (KU Leuven)

THE STUDY OF ENERGY INDICATORS FOR MEASURING VULNERABILITY IN TAIWAN AND COPING STRATEGY: AN APPLICATION OF WEC FRAMEWORK

Leadauthor: Chi-Yuan Liang (National Central University)
Coauthors: Jheng Ruei He, Chih-Chun Liu, Po-Yao Kuo
Presenting: Jheng Ruei He (Chung-Hua Institution for Economic Research)

LONG-TERM BOTTOM-UP MODELLING OF TURKISH ELECTRICITY SECTOR

Leadauthor: Esin Tetik (Isik University)
Coauthors: Kemal Sarica
Presenting: Esin Tetik (Isik University)

MOTIVATIONAL ASPECTS OF ENERGY TRANSITIONS IN JAPAN: SOME EMPIRICAL FINDINGS

Leadauthor: Hidetoshi Yamashita (Hitotsubashi University)
Coauthors: Shinichiro Okushima
Presenting: Hidetoshi Yamashita (Hitotsubashi University)

**Session 7D: Energy Efficiency IV
Trabantenstube**

PREFERENCE CHARACTERISTICS AND ENERGY EFFICIENCY INVESTMENT: FOCUSING ON TIME, RISK, AND SOCIAL PREFERENCES.

Leadauthor: Jihyo Kim (Korea Energy Economics Institute)
Presenting: Jihyo Kim (Korea Energy Economics Institute)

Concurrent Sessions 7D - 8A

FREE RIDING AND REBATES FOR RESIDENTIAL ENERGY EFFICIENCY UPGRADES: A MULTI-COUNTRY CONTINGENT VALUATION EXPERIMENT
Leadauthor: Mark Olsthoorn (Grenoble Ecole de Management)
Coauthors: Joachim Schleich, Xavier Gassmann, Corinne Faure
Presenting: Mark Olsthoorn (Grenoble Ecole de Management)

THE ROLE OF FORMAL AND INFORMAL ADVICE AND INFORMATION SEEKING IN ENERGY-EFFICIENT RENOVATION DECISIONS
Leadauthor: Jelena Zoric (University of Ljubljana, Faculty of Economics)
Coauthors: Nevenka Hrovatin
Presenting: Jelena Zoric (University of Ljubljana, Faculty of Economics)

EFFICIENCY GAP AND OPTIMAL ENERGY CONSERVATION INCENTIVES
Leadauthor: Franz Wirl (Herr)
Presenting: Franz Wirl (Herr)

SOCIAL NORMS AND ENERGY CONSERVATION BEYOND THE US - A REPLICATION
Leadauthor: Andreas Gerster (RWI)
Coauthors: Mark Andor, Jörg Peters, Christoph M. Schmidt
Presenting: Andreas Gerster (RWI)

Session 7E: Poverty & Wealth Künstlerzimmer

FUEL POVERTY, HEALTH AND SUBJECTIVE ASSESSMENT: A LATENT CLASS APPROACH AND APPLICATION TO THE CASE OF SPAIN
Leadauthor: Manuel Llorca (Durham University Business School)
Coauthors: Tooraj Jamasb, Ana Rodríguez-Álvarez
Presenting: Manuel Llorca (Durham University Business School)

HOW SECURE IS EUROPE'S ENERGY SECTOR, AND HOW IT INTERACTS WITH WATER AND FOOD SECURITY?
Leadauthor: Suwin Sandu (UTS)
Coauthors: Muyi Yang
Presenting: Suwin Sandu (UTS)

ARE THE RENEWABLE ENERGIES AFFECTING BOTH THE INCOME DISTRIBUTION AND THE RISK OF POVERTY OF HOUSEHOLDS?
Leadauthor: Diogo Pereira (University of Beira Interior)
Coauthors: António Cardoso Marques, José Alberto Fuinhas
Presenting: Diogo Pereira (University of Beira Interior)

SUSTAINABLE ENERGY ACCESS IN WEST AFRICA REGION: THE ROLE OF NATURAL GAS
Leadauthor: emmanuel agiaye (eni nigeria)
Presenting: emmanuel agiaye (eni nigeria)

Session 7F: Fossil Fuels I Radetzky App. I

COST OVERRUNS ON PETROLEUM PROJECTS. THE EFFECT OF PROJECT SIZE
Leadauthor: Petter Osmundsen (University of Stavanger)
Presenting: Petter Osmundsen (University of Stavanger)

CHALLENGES FOR LARGE GAS ENGINES IN FUTURE ENERGY SYSTEMS
Leadauthor: Wibke Tritthart (LEC)
Presenting: Wibke Tritthart (LEC)

ARE THERE INTERACTIONS BETWEEN A COAL PHASE-OUT AND THE NEW BATTERY CAPACITIES CREATED BY ELECTRIC VEHICLES?
Leadauthor: Christoph Kost (Fraunhofer ISE)
Coauthors: Sven Längle, Shivenes Shammugam, Charlotte Senkpiel
Presenting: Christoph Kost (Fraunhofer ISE)

NAPHTHA STORAGE FRACTION AND GHG EMISSIONS IN THE KOREAN PETROCHEMICAL INDUSTRY
Leadauthor: Hi-chun Park (Inha University)
Presenting: Hi-chun Park (Inha University)

Session 7G: National Policies I Maria Theresien App. I

COLOMBIA AND SPAIN: COMPARATIVE TWO-LEVEL DECOMPOSITION ANALYSIS OF ENERGY CONSUMPTION CHANGES
Leadauthor: Jose M. Cansino (University of Sevilla and Universidad Autónoma de Chile)
Presenting: Jose M. Cansino (University of Sevilla and Universidad Autónoma de Chile)

IN-DEPTH ASSESSMENT OF THE ENERGY EFFICIENCY POTENTIAL IN CYPRUS
Leadauthor: Theodoros Zachariadis (Cyprus University of Technology)
Presenting: Theodoros Zachariadis (Cyprus University of Technology)

GENERAL REGIONALIZATION HEURISTIC TO MAP SPATIAL HETEROGENEITY OF MACROECONOMIC IMPACTS: THE CASE OF THE GREEN ENERGY TRANSITION AND THE MANUFACTURING SECTOR IN NRW
Leadauthor: Christian A. Oberst (RWTH Aachen)
Coauthors: Daniel Höwer, Reinhard Madlener
Presenting: Reinhard Madlener (RWTH Aachen)

CAN GREEN POWER LEAD TO GREEN GROWTH? A STUDY FOR PORTUGAL
Leadauthor: Patrícia Fortes (CENSE, FCT/Nova University of Lisbon)
Coauthors: Sara Proença, Sofia Gago Simões, Júlia Seixas
Presenting: Patrícia Fortes (CENSE, FCT/Nova University of Lisbon)

Session 7H: Energy Demand & Energy Efficiency Radetzky App. III

ENERGY TECHNOLOGY AND ENERGY ECONOMICS: ENERGY POLICY ANALYSIS IN TWO DIFFERENT MODEL TRADITIONS
Leadauthor: Orvika Rosnes (Statistics Norway)
Coauthors: Brita Bye, Kari Espegren, Taran Faehn, Eva Rosenberg
Presenting: Orvika Rosnes (Statistics Norway)

GREEN INVESTMENT SCHEME: DO SAVINGS DELIVER?
Leadauthor: Michaela Valentová (Czech Technical University in Prague)
Coauthors: Jiří Karásek, Jaroslav Knápek
Presenting: Michaela Valentová (Czech Technical University in Prague)

AGING AND TRANSPORT-RELATED ENERGY USE: DO GENERATIONS MATTER?
Leadauthor: Rossella Bardazzi (University of Florence)
Coauthors: maria grazia pazienza
Presenting: Rossella Bardazzi (University of Florence)

REBOUND EFFECT FOR PRIVATE TRANSPORT AND ENERGY SERVICES IN THE UK
Leadauthor: Mona Chitnis (University of Surrey)
Coauthors: Roger Fouquet, Steve Sorrell
Presenting: Mona Chitnis (University of Surrey)

LESSONS LEARNT FROM THE UPTAKE OF ENERGY AUDITS AND ENERGY MANAGEMENT SYSTEMS IN GERMANY
Leadauthor: Clemens Rohde (Fraunhofer ISI)
Coauthors: Patrick Plötz, Lisa Nabitz, Nele Friedrichsen
Presenting: Patrick Plötz (Fraunhofer ISI)

Concurrent Sessions 8A to 8H Wednesday 6 September, 3:15 p.m. - 4:15 p.m.

Session 8A: Climate VIII Zeremoniensaal

DEEP DECARBONIZATION OF THE ELECTRIC POWER SECTOR: INSIGHTS FROM RECENT LITERATURE
Leadauthor: Jesse Jenkins (MIT Energy Initiative)
Coauthors: Max Luke, Samuel Thornstrom
Presenting: Max Luke (MIT Energy Initiative)

UNILATERAL POLICY INSTRUMENT DESIGN AGAINST CARBON LEAKAGE
Leadauthor: Kevin Kaushal (Norwegian University of Life Sciences)
Coauthors: Knut Einar Rosendahl
Presenting: Kevin Kaushal (Norwegian University of Life Sciences)

CLIMATE ENGINEERING IN AN INTERCONNECTED WORLD - THE ROLE OF TARIFFS
Leadauthor: Markus Eigruber (University of Vienna)
Presenting: Markus Eigruber (University of Vienna)

FROM PRIMARY TO USEFUL ENERGY: ENERGY TRANSITIONS IN DENMARK 1870-2013

Leadauthor: Sofia Henriques (Lund University)
Presenting: Sofia Henriques (Lund University)

**Session 8B: Electricity Markets VII
Rittersaal**

ANALYSIS OF THE ROLE OF ENERGY STORAGE IN POWER MARKETS WITH STRATEGIC PLAYERS

Leadauthor: Vegard Skonseng Bjerketvedt (NTNU)
Coauthors: Martin Kristiansen, Korpas Magnus
Presenting: Vegard Skonseng Bjerketvedt (NTNU)

STORAGE BUSINESS MODELS: LESSONS FOR ELECTRICITY FROM NATURAL GAS, CLOUD DATA AND FROZEN FOOD

Leadauthor: Karim Anaya (University of Cambridge)
Coauthors: Michael Pollitt
Presenting: Karim Anaya (University of Cambridge)

STRATEGIES FOR INTEGRATION OF VARIABLE RENEWABLE GENERATION IN THE SWISS ELECTRICITY SYSTEM

Leadauthor: Evangelos Panos (Paul Scherrer Institut)
Coauthors: Kannan Ramachandran
Presenting: Evangelos Panos (Paul Scherrer Institut)

ELECTRICITY STORAGE AND GRID - MODELING INTERDEPENDENCIES, INCENTIVES, AND EFFICIENT REGULATION

Leadauthor: Roman Mendelevitch (Humboldt-Universität zu Berlin)
Coauthors: Paul Neetow
Presenting: Roman Mendelevitch (Humboldt-Universität zu Berlin)

**Session 8C: Generation Planning
Geheime Ratstube**

GENERATION EXPANSION PLANNING UNDER UNCERTAINTY - AN APPLICATION OF STOCHASTIC METHODS TO THE GERMAN ELECTRICITY SYSTEM

Leadauthor: Friedrich Kunz (DIW Berlin)
Coauthors: Mona Setje-Eilers, Mario Kendzioriski
Presenting: Friedrich Kunz (DIW Berlin)

OPTIMAL ELECTRICITY GENERATION PORTFOLIOS IN THE PRESENCE OF FUEL PRICE AND AVAILABILITY RISK

Leadauthor: Magda Mirescu (University of Vienna)
Presenting: Magda Mirescu (University of Vienna)

EFFECTS OF POWER PLANT MOTHBALLING DECISIONS ON SYSTEM RELIABILITY AND GENERATION ADEQUACY

Leadauthor: Ahmed Ousman Abani (Deloitte France)
Coauthors: Nicolas Hary, Marcelo Saguan, Marcelo Saguan
Presenting: Ahmed Ousman Abani (Deloitte France)

**Session 8D: Renewables II
Trabantenstube**

ECONOMIC POLICY EVALUATION FOR THE DEPLOYMENT OF ALTERNATIVE ENERGY SOURCES IN BRAZIL

Leadauthor: Christian A. Oberst (RWTH Aachen)
Coauthors: Nicolás C. P. Chang, Reinhard Madlener
Presenting: Reinhard Madlener (RWTH Aachen)

MEASURING AND EXPLAINING PRODUCTIVITY GROWTH OF RENEWABLE ENERGY PLANTS: A CASE STUDY OF AUSTRIAN BIOGAS PLANTS

Leadauthor: Andreas Eder (Institute for Industrial Research)
Presenting: Andreas Eder (Institute for Industrial Research)

RESOURCES ADEQUACY - ANALYSIS OF RENEWABLE GENERATION VARIABILITY

Leadauthor: Michaela Lachmanová (Czech Technical University)
Presenting: Michaela Lachmanová (Czech Technical University)

**Session 8E: Grid Extension & Regulation Issues
Künstlerzimmer**

RELIEVING THE GERMAN TRANSMISSION GRID WITH REGULATED WIND POWER DEVELOPMENT

Leadauthor: Felix Böing (Forschungsstelle für Energiewirtschaft e.V.)
Coauthors: Andreas Bruckmeier, Timo Kern, Alexander Murmann, Christoph Pellinger
Presenting: Andreas Bruckmeier (FFE e.V.)

THE EFFECT OF ELECTRICITY TRANSMISSION INFRASTRUCTURE ON HOUSEHOLDS' WELLBEING

Leadauthor: Luis A. Sarmiento Abogado (DIW Berlin)
Coauthors: Alexander Zerrahn, Aleksandar Zaklan
Presenting: Luis A. Sarmiento Abogado (DIW Berlin)

THE EFFECT OF INSTITUTIONS ON SECTORAL PERFORMANCE: THE CASE OF ELECTRICITY DISTRIBUTION IN INDIAN STATES

Leadauthor: Manuel Llorca (Durham University Business School)
Coauthors: Tooraj Jamasb, Pavan Khetrupal, Tripta Thakur
Presenting: Tooraj Jamasb (Durham University)

EFFICIENT ALLOCATION OF MONETARY AND ENVIRONMENTAL BENEFITS IN MULTINATIONAL TRANSMISSION PROJECTS - A NORTH SEA OFFSHORE GRID CASE STUDY

Leadauthor: Martin Kristiansen (NTNU)
Coauthors: Korpas Magnus, Francisco David Munoz, Shmuel S Oren
Presenting: Martin Kristiansen (NTNU)

**Session 8F: Electricity Market Simulation Game: Demonstration Session
Radetzky App. I**

Bring your laptop and join in a demo session of TU Delft's online electricity market simulation game

**Session 8G: National Policies II
Maria Theresien App. I**

A COMPUTABLE GENERAL EQUILIBRIUM ANALYSIS OF CO2 REGULATION AND NUCLEAR PHASE-OUT POLICY IN JAPAN

Leadauthor: Shiro Takeda (Kyoto Sangyo University)
Presenting: Shiro Takeda (Kyoto Sangyo University)

ASSESSMENT OF TURKEY'S NUCLEAR ENERGY POLICY

Leadauthor: Mustafa Yavuzdemir (Energy Market Regulatory Authority)
Presenting: Mustafa Yavuzdemir (Energy Market Regulatory Authority)

HAS THE CHILEAN ELECTRICITY TURNED GREEN OR BLACK AFTER RENEWABLE ENERGY SUPPORT? SOME ENERGY POLICY LESSONS

Leadauthor: Rocío Román (University of Seville, Cátedra of Energy Economics and Environment)
Presenting: Rocío Román (University of Seville, Cátedra of Energy Economics and Environment)

HOW GOOD IS GOOD? OPTIMAL PERFORMANCE-BASED STANDARD UNDER THE US CLEAN POWER PLAN

Leadauthor: Yihsu Chen (University of California Santa Cruz)
Coauthors: Makoto Tanaka
Presenting: Yihsu Chen (University of California Santa Cruz)

**Session 8H: Fossil Fuels II
Radetzky App. III**

TEMPORAL DYNAMICS OF VOLATILITY SPILLOVER: THE CASE OF ENERGY MARKETS

Leadauthor: Muhammad Yahya (University of Stavanger)
Coauthors: Atle Oglend, Sindre Lorentzen, Roy Endré Dahl
Presenting: Muhammad Yahya (University of Stavanger)

ECONOMIC-ENVIRONMENTAL EVALUATION OF IRAN GAS FLARING REDUCTION PROJECTS WITH GPPS: CASE STUDY OF NGL-3200 PLANT OF IRAN

Leadauthor: roholla mahdavi (Allameh tabatabai)
Coauthors: Hamed Sahebbonar, Ali taheri
Presenting: roholla mahdavi (Allameh tabatabai)

STABILITY IN AN ERA OF INSTABILITY: REGIME CHANGES IN THE MARKET RELATIONSHIP BETWEEN LIQUEFIED PETROLEUM GASES, OIL AND NATURAL GAS

Leadauthor: Knut Anders Kjelaas Johansen (University of Stavanger)
Presenting: Knut Anders Kjelaas Johansen (University of Stavanger)

Poster Sessions

Manday 4 September, 3:30 p.m. - 4:30 p.m.
Tuesday 5 September, 3:30 p.m. - 4:30 p.m.

Radetzky App. II & Entreezimmer

HOUSEHOLDS' TECHNOLOGY CHOICES AND LONG-RUN ENERGY PRICE SENSITIVITY

Leadauthor: Anna Sahari (Aalto University)
Presenting: Anna Sahari (Aalto University)

BIOMASS ENERGY USE, PRICE CHANGES AND IMPERFECT LABOR MARKET IN RURAL CHINA: AN AGRICULTURAL HOUSEHOLD MODEL-BASED ANALYSIS

Leadauthor: Qiu Chen (Center for Development Research, University of Bonn)
Presenting: Qiu Chen (Center for Development Research, University of Bonn)

BIOMASS POTENTIAL: STATIC AND DYNAMIC, LONG TERM AND SHORT TERM

Leadauthor: Jaroslav Knápek (Czech Technical University in Prague, Fac. of Electrical Engineering)
Coauthors: Kamila Vávrová, Jan Weger, Tomáš Králík
Presenting: Jaroslav Knápek (Czech Technical University in Prague, Fac. of Electrical Engineering)

LOCAL ACCEPTANCE OF WIND ENERGY IN SWITZERLAND, ESTONIA AND UKRAINE: A CROSS-COUNTRY ANALYSIS BASED ON CHOICE EXPERIMENTS

Leadauthor: Anna Ebers (IWOe, University of St.Gallen)
Coauthors: Andrea Tabi, Rolf Wüstenhagen, Nadiya Kostyuchenko, Denys Smolennikov, Liina Joller
Presenting: Anna Ebers (IWOe, University of St.Gallen)

PHOTOVOLTAIC SELF-CONSUMPTION REGULATION IN SPAIN: PROFITABILITY ANALYSIS AND ALTERNATIVE REGULATION SCHEMES

Leadauthor: Javier López Prol (University of Graz) Coauthors: Karl Steininger
Presenting: Karl Steininger (University of Graz)

RENEWABLES FOR A LONG-TERM SUSTAINABLE ENERGY SYSTEM?

Leadauthor: Nathalie Spittler (University of Iceland)
Coauthors: Ganna Gladkykh
Presenting: Nathalie Spittler (University of Iceland)

RESOURCES ADEQUACY - ANALYSIS OF RENEWABLE GENERATION VARIABILITY Variation

Leadauthor: Michaela Lachmanová (Czech Technical University)
Presenting: Michaela Lachmanová (Czech Technical University)

THE CANNIBALIZATION EFFECT OF SOLAR PHOTOVOLTAICS IN THE CALIFORNIA ELECTRICITY MARKET

Leadauthor: Javier López Prol (University of Graz)
Presenting: Javier López Prol (University of Graz)

THE IMPACT OF BELIEFS, MOTIVES AND WORLDVIEWS ON SOCIAL ACCEPTANCE OF RENEWABLE ENERGY TECHNOLOGIES

Leadauthor: Robert Gennaro Sposato (Alpen-Adria-Universität Klagenfurt)
Coauthors: Nina Hampl
Presenting: Robert Gennaro Sposato (Alpen-Adria-Universität Klagenfurt)

ECONOMIC IMPACT OF OVERSEA NATURAL GAS DEVELOPMENT ON KOREAN ECONOMY

Leadauthor: Young Yoon (Hanyang University)
Coauthors: Junghwan Jin, Jinsoo Kim, Sungjun Park
Presenting: Young Yoon (Hanyang University)

EFFECTS OF STOPPING HYDROELECTRIC POWER GENERATION ON THE DYNAMICS OF ELECTRICITY PRICES: AN EVENT STUDY APPROACH

Leadauthor: Stephania Mosquera (Universidad del Valle)
Coauthors: Diego Fernando Manotas-Duque, Jorge Mario Uribe
Presenting: Stephania Mosquera (Universidad del Valle)

THE LOW-CARBON TRANSITION OF THE EUROPEAN ELECTRICITY SECTOR: UNDERSTANDING ACTORS' STRATEGIC INVESTMENT DECISIONS IN RENEWABLE GENERATION ASSETS THROUGH AN AGENT-BASED APPROACH

Leadauthor: Elsa Barazza (UCL Energy Institute)
Presenting: Elsa Barazza (UCL Energy Institute)

THE VALUE OF FLEXIBILITY OPTIONS FROM AN OPERATOR'S PERSPECTIVE

Leadauthor: Steffi Schreiber (Dresden University of Technology)
Coauthors: Theresa Müller
Presenting: Steffi Schreiber (Dresden University of Technology)

VALUATION OF MANAGERIAL FLEXIBILITY AND STRATEGIC VALUE OF COAL GASIFICATION PROJECTS WITH THE OPTION-TO-SWITCH

Leadauthor: Piotr Saluga (AGH University of Science & Technology)
Presenting: Piotr Saluga (AGH University of Science & Technology)

ASSESSMENT OF KOREA'S ELECTRICITY GENERATION MIX USING A COMPLEX PORTFOLIO MODEL

Leadauthor: Taeyoung Jin (Hanyang University)
Coauthors: Juhan Kim, Jinsoo Kim
Presenting: Taeyoung Jin (Hanyang University)

ELECTRICITY LOAD FORECASTING USING STRUCTURED NEURAL NETWORK

Leadauthor: Junghwan Jin (Hanyang Univ.)
Coauthors: Jinsoo Kim
Presenting: Junghwan Jin (Hanyang Univ.)

GASOLINE AND DIESEL DEMAND ELASTICITIES: A CONSISTENT ESTIMATE ACROSS THE EU-28

Leadauthor: Abenezer Zeleke Aklilu (Swedish University of Agricultural Sciences)
Presenting: Abenezer Zeleke Aklilu (Swedish University of Agricultural Sciences)

ENVIRONMENTAL TAXATION FOR REDUCING GREENHOUSE GASES EMISSIONS IN CHILE: AN INPUT-OUTPUT ANALYSIS

Leadauthor: Cristian Mardones (University of Concepcion)
Coauthors: Tamara Muñoz
Presenting: Cristian Mardones (University of Concepcion)

POTENTIAL AND COSTS FOR CO2 MITIGATION OPTIONS FOR MINERAL OIL REFINERIES IN EU-28 FOR 2050

Leadauthor: Solbin Kim (Fraunhofer ISI)
Coauthors: Matthias Rehfeldt, Andrea Herbst
Presenting: Solbin Kim (Fraunhofer ISI)

DIRECTED TECHNICAL CHANGE AND ENERGY INTENSITY DYNAMICS: STRUCTURAL CHANGE VS. ENERGY EFFICIENCY

Leadauthor: Christian Haas (Justus-Liebig University)
Coauthors: Karol Kempa
Presenting: Karol Kempa (Justus-Liebig University Giessen)

THE FUTURE OF DATA CENTRE COOLING, ENERGY CONSUMPTION AND CLIMATE CHANGE

Leadauthor: Bryan Coyne (Trinity College Dublin)
Coauthors: Eleanor Denny
Presenting: Bryan Coyne (Trinity College Dublin)

ANALYZING THE ENERGY EXPENDITURE FUNCTION OF SINGLE-PERSON HOUSEHOLD

Leadauthor: Jungbae Lee (Hanyang University)
Coauthors: Jinsoo Kim
Presenting: Jungbae Lee (Hanyang University)

ASSESSMENT OF SOUTH KOREA'S LNG PORTFOLIO CONSIDERING PANAMA CANAL EXPANSION

Leadauthor: Juhan Kim (Hanyang University)
Coauthors: Taeyoung Jin, Jinsoo Kim
Presenting: Juhan Kim (Hanyang University)

CARBON TAXATION: DESIGNING COMPENSATION MEASURES TO PROTECT LOW-INCOME HOUSEHOLDS

Leadauthor: Audrey Berry (CIRED)
Presenting: Audrey Berry (CIRED)

CONSEQUENTIALITY AND THE WILLINGNESS-TO-PAY FOR RENEWABLES: EVIDENCE FROM GERMANY

Leadauthor: Mark Andor (RWI Leibniz Institute for Economic Research)
Coauthors: Manuel Frondel, Marco Horvath
Presenting: Marco Horvath (RWI - Leibniz Institute for Economic Research)

GERMANY'S ENERGIEWENDE: A TALE OF INCREASING COSTS AND DECREASING WILLINGNESS-TO-PAY

Leadauthor: Manuel Frondel (RWI)
Coauthors: Mark Andor, Colin Vance
Presenting: Manuel Frondel (RWI)

QUANTIFYING EXTERNAL EFFECTS OF BIOMASS PLANTS

Leadauthor: Julia Rechlitz (DIW Berlin)
Coauthors: Alexander Zerrahn, Christian Krekel, Johannes Rode
Presenting: Julia Rechlitz (DIW Berlin)

SURECITY: SUSTAINABLE AND RESOURCE EFFICIENT CITIES - HOLISTIC SIMULATION AND OPTIMIZATION FOR SMART CITIES

Leadauthor: Nicolas Pardo Garcia (AIT)
Coauthors: Demet Suna
Presenting: Demet Suna (AIT Austrian Institute of Technology GmbH)

CUSTOMISED DIFFERENTIAL PRICING FOR DIFFERENT ELECTRICITY USER GROUPS

Leadauthor: Andrew Peiyang Guo (The University of Hong Kong)
Coauthors: Victor LI, Jacqueline Lam
Presenting: Andrew Peiyang Guo (The University of Hong Kong)

FLEXIBILITY FOR MARKETS AND GRIDS: ECONOMIC AND TECHNICAL EVALUATION OF THE HYBRID-VPP CONCEPT

Leadauthor: Tara Esterl (AIT)
Coauthors: Christoph Gutschi, Jan Bleyl, Georg Lettner, Gregor Taljan, Ursula Krisper, Ernst Meissner, Simon-Marcel Stukelj, Johanna Spreitzhofer
Presenting: Tara Esterl (AIT)

HOW TO REDESIGN THE ROLE OF THE ELECTRICITY DISTRIBUTION SYSTEM OPERATORS?

Leadauthor: Patricia Pereira da Silva (FEUC, INCESCC, CeBER)
Coauthors: Guillermo Pereira
Presenting: Patricia Pereira da Silva (FEUC, INCESCC, CeBER)

DESIGNING NEW PRICING SCHEMES FOR PROSUMERS

Leadauthor: Golnoush Soroush (Politecnico di Torino)
Coauthors: Carlo Cambini
Presenting: Golnoush Soroush (Politecnico di Torino)

ECONOMIC POLICY EVALUATION FOR THE DEPLOYMENT OF ALTERNATIVE ENERGY SOURCES IN BRAZIL

Leadauthor: Christian A. Oberst (RWTH Aachen)
Coauthors: Nicolás C. P. Chang, Reinhard Madlener
Presenting: Reinhard Madlener (RWTH Aachen)

EVALUATING THE NEED FOR A CAPACITY MARKET WITH WIDELY AVAILABLE DEMAND RESPONSE AND ELECTRICAL ENERGY STORAGE

Leadauthor: AGHA SALMAN MUHAMMAD Khan (Delft University of Technology)
Presenting: AGHA SALMAN MUHAMMAD Khan (Delft University of Technology)

THE EFFECT OF ELECTRICITY TRANSMISSION INFRASTRUCTURE ON HOUSEHOLDS' WELLBEING

Leadauthor: Luis A. Sarmiento Abogado (DIW Berlin)
Coauthors: Alexander Zerrahn, Aleksandar Zaklan
Presenting: Luis A. Sarmiento Abogado (DIW Berlin)

PERSONAL ENERGY ADMINISTRATION KIOSK APPLICATION - PEAKAPP

Leadauthor: Gerold Muggenhumer (Energieinstitut at the JKU Linz)
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IT and Data Center Linz

Ultra modern, energy-efficient

LINZ AG TELEKOM operates one of the best secured and state of the art data-processing-centres in Austria. With a total surface area of 440 m², it offers sufficient floor space for companies of all sizes as well as powerful solutions. The modern 211 m² photovoltaic facade and an efficient lighting and air-conditioning system ensure maximum energy savings. With its IT and Data Center, LINZ AG TELEKOM not only contributes significantly to a sustainable improvement of the environment in Linz but also to the security of supply to LINZ AG as a whole.

According to a recent study, the data volume doubles in two year intervals. By 2020, LINZ AG TELEKOM expects a tenfold increase in data volume as well as the bandwidth used. At the same time, the number of servers will rise dramatically over the next years. This development will be accompanied by an equally fast-paced increase in energy consumption. As a responsible IT and telecommunications service provider LINZ AG TELEKOM thus decided to build this highly-efficient IT and Data Center in Linz.

modern – secure – powerful

More than **7,000 servers** in **160 IT racks**, highest security standards, electronic locking systems, multi-redundant electricity supply, state of the art air-conditioning, fire protection measures as well as a fail-proof fibre-glass connection to national and international data networks: the LINZ AG TELEKOM IT and Data Center is one of the

most modern and secure data processing centres in Austria and offers business customers **optimum and uninterrupted operations**.

In addition to secure storage of their data at the IT and Data Center Linz, our customers benefit from many other advantages such as cost savings, a simplification of IT processes, flexibility, the use of state-of-the-art equipment, instant availability and utmost fail-safety. The IT and Data Center Linz offers companies a **high-quality, environmentally-friendly and inexpensive IT solution**.

'It was our ambition to set new standards regarding security and to give our customers the competitive edge. In addition to state-of-the-art equipment, the safe-guarding of data here in Austria is one of the major aspects of our service' says Markus Past, MBA (Head of LINZ AG TELEKOM).



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