

ENERDAY 2019
Low-Carbon Energy System Transformation: Setting the Course for the Next Decade

Pre-Conference-Dinner **Thursday, 11 April 2019, 6 pm** Restaurant Campus, Hübnerstraße 13, 01069 Dresden
Informal Get Together

Conference **Friday, 12 April 2019, 8:30 am** Messe Dresden, Via Mobile 7 ([see Venue Information](#))

8:30	Registration, Coffee & Tea
9:00	Opening Address (Room: Hamburg Conference Hall) Prof. Dr. Dominik Möst, TU Dresden Prof. Dr. Christian von Hirschhausen, TU Berlin
9:30	Keynote Speech (Room: Hamburg Conference Hall, Chair: Prof. Dr. Christian von Hirschhausen) The Energy Transformation in Europe and Beyond – The Big Picture and Some Details Prof. Dr. Manfred Hafner, Johns Hopkins University SAIS-Europe, SciencesPo PSIA, Fondazione Eni Enrico Mattei

10:15 Coffee & Tea

10:45 - 11:45	Low-Carbon Energy System Transformation I/III	Gas Markets	Local energy markets	Economics of consumer behavior
	Room: Hamburg Hall Chair: Constantin Dierstein	Room: Rotterdam Hall Chair: Philipp Hauser	Room: St. Petersburg Hall Chair: Thomas Walther	Room: Florenz Hall Chair: Samarth Kumar
10:45	Ways to a low-emission energy system - repercussions of a German coal phase-out Michael Wiesmeth, Universität Stuttgart	Implementing new capacity booking regimes for gas transmission networks – How will gas storages be affected? Dominic Lencz, ewi Energy Research & Scenarios	On the Stability of Energy Communities with limited generation capacities Andreas Fleischhacker, TU Wien	Digital labels as the next step for informed consumer decisions - experiences from an EU field trial Dr. Uta Burghard, Fraunhofer-Institut für System- und Innovationsforschung ISI
11:05	Short-term effectiveness of electrolytic hydrogen production for energy system decarbonisation Kai Klöckner, RWTH Aachen University	Drivers and barriers of future gas demand - A meta analysis Hendrik Scharf, TU Dresden	Pricing mechanisms and market designs in peer-to-peer electricity trading: fostering energy access and self-sufficiency Jens Weibezahn, TU Berlin	Households' Dynamic Investment Choice in Energy Efficient Technology Sebastian Mertesacker, University of Cologne
11:25	Scenarios for decarbonizing an integrated energy system Leonard Göke, TU Berlin	Gas Flows and Gas Prices in Europe: What is the Impact of Nord Stream 2 Dr. Maik Günther, Stadtwerke München GmbH	Techno-economic evaluation of combined micro power and heat generation assets: Implications for the multi-tenant building market in Germany Prof. Dr. Reinhard Madlener, RWTH Aachen University	Photovoltaic self-consumption after the support period: Will it pay off in a cross-sector perspective? Jonas Klamka, University of Siegen

11:45 Short 5-Minute-Break
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11:50 - 12:50	Low-Carbon Energy System Transformation II/III Room: Hamburg Hall Chair: Matthew Schmidt	Energy transition on a local level Room: Rotterdam Hall Chair: Jens Maiwald	Flexibility in energy systems Room: St. Petersburg Hall Chair: Steffi Schreiber	Alternative fuels for transportation Room: Florenz Hall Chair: Hendrik Scharf
11:50	Decarbonization of the European energy system with strong sector couplings Prof. Dr. Martin Greiner, Aarhus University	A Generic Evaluation Process for Power-to-X Business Cases in an Urban Setting Stefan Scharl, RWTH Aachen University	How to Estimate the Balancing Capability of Hydropower? – A Proposed Method that Reveals Insights in Factors Affecting Flexibility Dr. Richard Scharff, Vattenfall	LNG from renewable sources as an alternative fuel for maritime shipping? Prof. Dr. Andreas Seeliger, Hochschule Niederrhein
12:10	Analyzing Potential Stranded Assets – A Challenge for the European Low-Carbon Transition? Konstantin Löffler, TU Berlin	The transition of the energy system towards (almost) complete decarbonization from an utility perspective Dr. Holger Wiechmann, Energie Baden-Württemberg AG	The impact of sector coupling options on electricity systems – An evaluation of different flexibility options Mario Kendzioriski, TU Berlin	Application-side merit-order-curves for synthetic fuels in the German energy system Tobias Hübner, Forschungsgesellschaft für Energiewirtschaft mbH
12:30	Modelling of the European Union's Long-Term Strategy towards a carbon-neutral energy system Alessia De Vita, National Technical University of Athens	Sustainability assessment of the energy transition: Insights from Saxon municipalities, Germany Kendisha Soekardjo Hintz TU Dresden	Find your way around the various flexibility mechanisms under the European burden-sharing Marc Vielle, École Polytechnique Fédérale de Lausanne	Economic comparison of electric fuels produced at excellent sites for renewable energies: A Scenario for 2035 Philipp Runge, Friedrich-Alexander-Universität Erlangen-Nürnberg
12:50	Lunch			
13:50 - 14:50	Market design Room: Hamburg Hall Chair: Constantin Dierstein	Carbon mitigation and EU ETS Room: Rotterdam Hall Chair: Carl-Philipp Anke	Modelling and Simulation of Energy Markets Room: St. Petersburg Hall Chair: Dirk Hladik	Renewable energies Room: Florenz Hall Chair: Matthew Schmidt
13:50	Strategic reserve for Switzerland: Is it needed and (how) would it work? Prof. Dr. Hannes Weigt, University of Basel	The amendment of the EU ETS: decomposition of effects and dynamic efficiency Theresa Wildgrube, ewi Energy Research & Scenarios	Is the more complex model always the better one? Evidence from the assessment of security of electricity supply Lars Nolting, RWTH Aachen University	Paradoxa, anomalies and limits – the collective dynamics of energy systems Prof. Dr. Marc Timme, TU Dresden - cfaed
14:10	Incentive-based Subsidy and Tax for Efficient Generation Investment Lamia Varawala, KTH Royal Institute of Technology	CO2 mitigation costs of smart space heating systems for private households in Germany Dr. Dominik Schäuble, Institute for Advanced Sustainability Studies	Reliability constrained generation expansion planning: Case study for different system sizes and characteristic renewable profiles Markus Groissböck, University of Innsbruck	The impact of multi-year weather variability on the security of supply in highly renewable power systems: a case study for Germany Fridolin Pflugmann, TU München

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14:30	Low-carbon energy system transformation: the role of markets Mike Bostan, European Federation of Energy Traders	Carbon avoided costs for the low-carbon technologies in Russia and EU Andrey Khorshev, Russian Academy of Sciences	Modelling of imports and exports for the German electricity system Timona Ghosh, TU Berlin	Interaction of sector coupling technologies with further flexibility options in energy systems with different PV-Wind shares Christoph Zöphel, TU Dresden
14:50	Short 10-Minute-Break			
15:00	Keynote Speech (Room: Hamburg Conference Hall, Chair: Prof. Dr. Dominik Möst) Impulses for a new heat market design Florian Weiser, MVV Energie AG			

15:45 Coffee & Tea

16:15 - 17:15	Modelling of the heating sector Room: Hamburg Hall Chair: Philipp Hauser	Low-Carbon Energy System Transformation III/III Room: Rotterdam Hall Chair: Christoph Zöphel	Modelling Aspects of Energy Markets Room: St. Petersburg Hall Chair: David Schönheit	Transition of the transport sector Room: Florenz Hall Chair: Michael Burkhardt
16:15	Bottom-up modelling of heating investment using clustered time series data Berit Hanna Czock, ewi Energy Research & Scenarios	Survey and classification of business models for the energy transformation Johannes Giehl, TU Berlin	Impact of Different Generation Shift Key Strategies on the Flow-based Market Coupling Domain in Germany Richard Weinhold, TU Berlin	Charging infrastructure business models and policies for electric vehicles in Karnataka Prof. A.M. Nagaraj, Dayananda Sagar College of Engineering
16:35	Nearly Zero Energy Cities: Scalability of energy self-consumption from buildings to large urban areas Manuel Villa, FUNSEAM	Cost and Metal Savings through a Second-Life for Electric Vehicle Batteries Anika Regett, Forschungsstelle für Energiewirtschaft e.V.	Acceleration strategies of the Generation Expansion Problem by Bender Decomposition Matthias Zech, TU Dresden	The effect of digitalization on the energy consumption of the EU passenger transport Dr. Michel Noussan, Fondazione Eni Enrico Mattei
16:55	Active retrofitting for multi-apartment buildings: use case analysis with a special focus on photovoltaics and different heating systems Bernadette Fina, TU Wien	Pathways for Germany's energy transition towards 2050 Frederik Seehaus, TU Berlin	Forecasting negative market prices at power exchanges using transformation approaches Benjamin Aust, TU Bergakademie Freiberg	Decarbonizing Public Transport: Implementing the Transition to Zero Emissions Elisa Claus, KCW GmbH

17:15 Closing Words in the Foyer of the Via Mobile 7, Messe Dresden
Gala Dinner
Official Closing Event

Friday, 12 April 2019, ~6:30 pm

 Restaurant CHIAVERI Bernhard-von-Lindenau-Platz 1
01067 Dresden

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