

Conference Agenda

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Agenda Overview

Date: Wednesday, 26/Aug/2026

8:45am - 9:00am	Registration Location: S07 S00 D07		
9:00am - 9:15am	Welcome & Introduction Location: S07 S00 D07		
9:15am - 10:15am	Keynote - David Gohsen: Navigating Geopolitics, Regulation, Cost Pressure, and Climate Ambitions – How can Europe's Chemical Industry compete? Location: S07 S00 D07		
10:30am - 12:00pm	1.1: Load Forecasting Location: R11 T03 C20 10:30am - 11:00am Distributional Load Forecasting for Off-Grid Energy Systems. <u>Alexandra Fafali Kudjawu</u> ¹ , Johannes Schwenzer ¹ , Simone Maxand ^{1,2} 1: Europa-Universität Viadrina, Germany; 2: Berlin School of Economics, Germany 11:00am - 11:30am Combining Weather Forecast Aggregation and State-Space Models for Adaptive Probabilistic Electricity Load Forecasting <u>Jonathan DUMAS</u> ¹ , Joseph De Vilmarest ² , Jean Thorey ³ 1: RTE; 2: VIKING Conseil; 3: ENEDIS 11:30am - 12:00pm oRaKIE: Extending Automated Hourly Electricity Demand Forecasting from Long-Term to Day-Ahead Horizons <u>Johannes Schwenzer</u> ¹ , Tim Döring ¹ , Tatiana Grandón ² , Simone Maxand ¹ 1: Europa Universität Viadrina, Germany; 2: Norwegian University of Science and Technology, Trondheim	2.1: Electricity Market Design and Price Risk Location: R11 T03 C05 Chair: Arnd Hofmann 10:30am - 11:00am The impact of renewable energy forecast errors on short-term congestion management <u>Tim Jäger</u> , Prof. Dr. Oliver Ruhnau, Felix Kaminski University of Cologne, Germany 11:00am - 11:30am From Energy Scarcity to Flexibility Scarcity: A Risk-Based Framework for Valuing Flexibility Across Time Horizons in Renewable Power Systems <u>Johannes Rauch</u> Johannes Rauch Advisory, Germany 11:30am - 12:00pm The price cannibalization effect in the Polish Electricity Market: An empirical analysis (2021-2025) <u>Dawid Bonar</u> Kraków University of Economics, Poland	3.1: Battery energy storage Location: R11 T03 C82 Chair: Souhir Ben Amor 10:30am - 11:00am Joint probabilistic forecasting for battery arbitrage in day-ahead power markets <u>Alla Petukhina</u> ¹ , Cosmin Cepoi ³ , Stefan Lessmann ² , Daniel Pele ³ , Alexandru Andrei ³ , Bogdan Andrei Dumitrescu ³ 1: HTW Berlin, Germany; 2: HU Berlin, Germany; 3: ASE Bucharest, Romania 11:00am - 11:30am Multi-Factor Stochastic Price Modeling for Battery Storage Real Option Valuation: A Framework with Peak/O!peak Dynamics <u>Andreas Heinen</u> ¹ , Carlos Epia ^{1,2} 1: Hochschule Flensburg, Germany; 2: Europa Universität Flensburg, Germany 11:30am - 12:00pm Robust Multi-Market Dispatch of Battery Energy Storage Under Market Uncertainty <u>Leon Tadayon</u> , Georg Frey Saarland University, Germany
12:00pm - 1:00pm	Lunch Day 1 Location: S07 S00 D07		
1:00pm - 2:00pm	1.2: Electricity Price Forecasting I Location: R11 T03 C20 Chair: Florian Ziel 1:00pm - 1:30pm Forecasting Electricity Prices via a Smooth Transition Regression Model <u>Sven Hellbusch</u> , Maren Schmeck Bielefeld University, Germany 1:30pm - 2:00pm	2.2: Consumer Tariffs and Risk Preferences Location: R11 T03 C05 Chair: Christoph Weber 1:00pm - 1:30pm How Much Compensation Do Households Demand for Giving Up Price Stability? Risk Premia in Electricity Plan Choice Mark Andor, Julian Fischer, <u>Eva Hümmecke</u> , Lukas Tomberg	3.2: Infrastructure Planning and Decision Analysis Location: R11 T03 C82 Chair: Souhir Ben Amor 1:00pm - 1:30pm Optimal Hydrogen Hub Configuration Under Pipeline Delay: A Multi-Year Scenario Optimization <u>Melanie Ruschke</u> , Daniel Bull, Marco Braun

	Short-Term Electricity Price Forecasting for the Continuous Intraday Market in Germany: A control area-specific approach Mathis Wilz¹, Richard Lackes² 1: TU Dortmund, Germany; 2: TAU Istanbul, Turkey	RWI – Leibniz Institute for Economic Research, Germany 1:30pm - 2:00pm When Knowledge Does Not Pay Off: Electricity Tariff Literacy, Vulnerability, and Behavior Stefan Poier¹, Robert Gaschler¹, Michael Bucksteeg^{1,2} 1: FernUniversität in Hagen, Germany; 2: Institute of Energy Economics (EWI), University of Cologne, Germany	Karlsruhe University of Applied Sciences, Germany 1:30pm - 2:00pm Multi Criteria Decision Analysis incorporating stakeholder perspectives: A case study of energy system modelling in urban districts Lion Rudi, Semih Severengiz Bochum University of Applied Sciences, Sustainable Technologies Laboratory, Germany
2:00pm - 2:30pm	Coffee Break (1) Location: R11 T03 C75		
2:30pm - 4:00pm	1.3: Electricity Price Forecasting II Location: R11 T03 C20 Chair: Florian Ziel 2:30pm - 3:00pm Can Time Series Foundation Models predict the unknown? Comparing uncertainty quantification in Day-ahead and Imbalance market price forecasts Chi Bui¹, Margarida Mascarenhas², Arnaud Verstraeten³, Hussain Kazmi² 1: ELECTA-ESAT, KU Leuven; 2: ELECTA-ESAT, KU Leuven, and EnegyVille; 3: ELECTA-ESAT, KU Leuven, and Gridual 3:00pm - 3:30pm The Right Model for the Right Time: Applying Mixture of Experts for Electricity Price Forecasting Julian Sauerbier, Nick Frowerk, Alexander Szimayer University of Hamburg, Germany 3:30pm - 4:00pm Modeling Choices for European Electricity Price Forecasting in Interconnected Markets Sultan Mahmud Chomon, Florian Ziel Wirtschaftswissenschaften, Germany	2.3: Power System Planning under Uncertainty Location: R11 T03 C05 Chair: Christoph Weber 2:30pm - 3:00pm A Multi-Horizon Scenario Tree Framework for Uncertainty-Aware Power System Planning Felix Wedding¹, Christian Rehtanz¹, Ángela Flores-Quiroz² 1: Institute of Energy Systems, Energy Efficiency and Energy Economics, TU Dortmund University, Dortmund, Germany; 2: Department of Electrical Engineering, University of Chile, Santiago, Chile 3:00pm - 3:30pm Climate Uncertainty and Power System Planning: A Multi-Model Deep Uncertainty Framework — A Case Study of Indonesia Hariadi Aji^{1,2}, Nihit Goyal¹, Stefan Pfenninger-Lee¹, Igor Nikolic¹ 1: TU Delft, The Netherlands; 2: PT PLN (Persero), Indonesia 3:30pm - 4:00pm Assessing Power System Resilience to Extreme Weather Conditions: A Probabilistic Decision Analysis Framework Himali Talware, Prashant Pant, Thomas Hamacher Technical University of Munich, Germany	3.3: Battery energy storage and Trading Strategies in Electricity Markets Location: R11 T03 C82 Chair: Souhir Ben Amor 2:30pm - 3:00pm Optimal Intraday Trading of Renewable Energy Under Price Impact and Forecast Uncertainty Paul Ghelasi, Florian Ziel University of Duisburg-Essen, Germany 3:00pm - 3:30pm Power-Trading and Constraint Reinforcement Learning Attila Sarkany¹, Jens Soerlie Kvaerner², Lukas Janasek³ 1: Charles university, Czech Republic (Czechia); 2: Department of Finance, BI Norwegian Business School; 3: Charles university, Czech Republic (Czechia) 3:30pm - 4:00pm Improving Algorithmic Trading for BESS on Intraday Electricity Markets through Distributional Price Forecasts Simon Hirsch^{1,2}, David Schaurecker³, David Wozabal⁴ 1: University of Duisburg-Essen; 2: Statkraft; 3: Eidgenössische Technische Hochschule (ETH) Zürich; 4: Vrije Universiteit Amsterdam
5:00pm - 6:30pm	Social Event		
7:00pm - 9:45pm	Conference Dinner		

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8:45am - 9:45am	1.4: Forecasting in Energy Markets Location: R11 T03 C20 Chair: Florian Ziel 8:45am - 9:15am Analysis of Day-Ahead Electricity Auction Curve Dynamics: Measuring and Decomposing Price–Quantity Curve Volatility Alessandro Zani¹ , Mara Sabina Bernardi ¹ , Luigi Grossi ² , Andrea Cerasa ¹ 1: European Commission, Joint Research Centre, Ispra, Italy; 2: University of Parma, Parma, Italy 9:15am - 9:45am Market integration and the geography of electricity tail risk. Evidence from Nordic price areas Bjarne Sæther , Anne Neumann Norwegian University Of Science And Technology, Norway	2.4: Flexibility Valuation and Grid Operations Location: R11 T03 C05 Chair: Christoph Weber 8:45am - 9:15am Executable-Price-Based Valuation of Flexible Generation Assets in Fragmented Intraday Electricity Markets Michael Schürle University of St. Gallen, Switzerland 9:15am - 9:45am Do Grid-Operator Batteries Make Economic Sense for Redispatch Substitution? An Open-Data Analysis of Virtual Power Lines Luca Hofstadler^{1,2} , Catalin Gavriluta ¹ , Jochen Stiasny ² , Jochen Cremer ² 1: AIT Austrian Institute of Technology GmbH, Austria; 2: TU Delft, The Netherlands	3.4: Emerging Flexibility Resources Location: R11 T03 C82 Chair: Souhir Ben Amor 8:45am - 9:15am Assessing the Readiness of German Grid Operators for Vehicle-to-Grid: A Maturity Model Perspective Luca Husemann , David Meyer, Heike Proff University of Duisburg-Essen, Germany 9:15am - 9:45am Beyond Waste Heat: Assessing Temporal and Spatial Flexibility Potentials of Data Centers in Future Energy Systems Daniel Brunsch , Tobias Ader, Christoph Weber University of Duisburg-Essen, Germany
9:45am - 10:15am	Coffee Break (2) Location: R11 T03 C75		
10:15am - 11:15am	Keynote - Audun Botterud Location: S07 S00 D07		
11:30am - 1:00pm	1.5: Renewable Energy Forecasting Location: R11 T03 C20 Chair: Florian Ziel 11:30am - 12:00pm Rethinking Complexity in ML-Based Renewable Energy Forecasting: Competitive National-Scale Wind and Solar Power Forecasts with Bayesian-Optimised MLPs Milan Wanek Technische Universität Berlin, Germany 12:00pm - 12:30pm Inductive Spatio-Temporal Graph Modeling for Wind Speed Prediction: Leveraging Heterogeneous NWP Nodes in DCRNNs Viktor Walter¹ , Andreas Wagner ^{1,2} 1: Karlsruhe University of Applied Sciences, Germany; 2: Fraunhofer Institute for Industrial Mathematics, Kaiserslautern, Germany 12:30pm - 1:00pm Probabilistic Very Short-Term PV Power Forecasting via Hybrid TCN-LSTM with Dual Uncertainty Estimation Ahsen Ulutaş , Hendrik Vennegeerts Duisburg Essen University, Germany	2.5: Energy Policy, Buildings and Behaviour Location: R11 T03 C05 Chair: Christoph Weber 11:30am - 12:00pm Rethinking the Energy Performance Gap: A Causal Inference Approach to Comparing Demand- and Consumption-Based EPCs in German Residential Buildings Lisa Sieger , Tobias Ader, Daniel Brunsch, Christoph Weber University of Duisburg-Essen, Germany 12:00pm - 12:30pm Present bias reshapes the cost efficiency of solar support polici Michael Bucksteeg^{1,2} , Mensur Delic¹ , Marco Breder ³ , Daniel Brunsch ³ , Julian Radek ³ 1: FernUniversität in Hagen, Germany; 2: Institute of Energy Economics, University of Cologne, Germany; 3: University of Duisburg-Essen, Germany 12:30pm - 1:00pm Energy Efficiency, Investment Constraints, and GDP Growth in Net-Zero Transitions: Evidence from Vietnam Christoph Schult , Katja Heinisch	3.5: Hedging in Energy Markets Location: R11 T03 C82 Chair: Souhir Ben Amor 11:30am - 12:00pm Hedging Renewables with Location Spreads Tobias Kargus¹ , Roberto Baviera ² 1: Karlsruhe Insitute of Technology (KIT), Germany; 2: Politecnico di Milano, Italy 12:00pm - 12:30pm Hedging stocks with carbon allowances Lina Franziska Lautner Technische Universität Chemnitz, Germany 12:30pm - 1:00pm Horizon-Dependent Risk Transfer in Energy Transition Metals: Evidence from Cobalt, Lithium and Nicke František Čech^{1,2} , Jiri Mikulenk ^{1,2} 1: Charles University, Institute of Economic Studies, Czech Republic (Czechia); 2: Institute of Information Theory and Automation Czech Academy of Sciences

1:00pm - 2:00pm	Lunch Day 2 Location: S07 S00 D07		
2:00pm - 3:00pm	Keynote - Florentina Paraschiv: Financial Resilience for the Climate and Energy Transition Location: S07 S00 D07		
3:00pm - 3:15pm	Coffee Break (3) Location: R11 T03 C75		
3:15pm - 4:45pm	1.6: Risk in Energy Markets Location: R11 T03 C20 3:15pm - 3:45pm From Gaussian to Alpha-Stable Kelly Portfolios: A Closed-Form Approximation <u>Niels Wesselhöfft</u> Freelancer, Germany 3:45pm - 4:15pm Joint Factor Modelling of Power, Gas and EUA Forward Curves <u>Jan Wohlfarth</u> EnBW / Uni DUE, Germany 4:15pm - 4:45pm How Persistent is Energy-Market Uncertainty Jozef Barunik, <u>Lukas Vacha</u> Institute of Information Theory and Automation of the CAS, Czech Republic (Czechia)	2.6: Energy Transition Scenarios and Renewable Deployment Location: R11 T03 C05 Chair: Christoph Weber 3:15pm - 3:45pm Are Renewables Competitive? How Much, Where and Why? <u>Pascal Fröhlich</u> , Maximilian Bernecker, Felix Müsgens Brandenburg University of Technology, Germany 3:45pm - 4:15pm Internalizing local disamenities in onshore wind cost-potential curves: Evidence from Germany <u>Yannik Pflugfelder</u> Universität Duisburg-Essen, Germany 4:15pm - 4:45pm Scenarios for the European Energy System Revisited: When climate ambitions meet societal divides Dennis Schneider, <u>Arnd Hofmann</u> , Christoph Weber House of Energy, Climate and Finance, Universität Duisburg-Essen, Germany	3.6: Technologies in Energy Markets Location: R11 T03 C82 Chair: Souhir Ben Amor 3:15pm - 3:45pm How Technology and Modelling Choices Shape European Wind and Solar Energy Droughts and Stress Events <u>Lukas Karkossa</u> , Aleksander Grochowicz, Marta Victoria Technical University of Denmark, Denmark 3:45pm - 4:15pm Quantify derated capacity of thermal power plants with rising ambient temperature <u>Jie Xu</u> , Philipp Castro, Christoph Weber Chair for Management Science and Energy Economics, University of Duisburg-Essen 4:15pm - 4:45pm Maxing out established renewable energy solutions - How do “Dunkelflauten” affect the optimal share of clean technologies? Moritz Alexander Schmidt, <u>Jonas Leonhardt</u> , Julian Tito Barcelona School of Economics, Spain