Conference Agenda

14th INREC 2025

Dato: Tuosday, 26/Aug/2025						
Date: Tuesday, 26/Aug/2025 9:00am Registration: Registration						
-	Location: R12 S00 H12 (Glaspavillon)					
9:15am	(****)					
9:15am -	Welcome & Introduction: Welcome & Introduction Location: R12 S00 H12 (Glaspavillon)					
9:30am						
9:30am -	Keynote 1: Prof. Marie Münster, Danmarks Tekniske Universitet (DTU): Sector coupling as a means of ensuring flexibility in future energy systems					
10:30am	Location: R12 S00 H12 (Glaspavillon)					
10:30am	1.1: Session 1.1 Uncertainties in Energy Markets	2.1: Session 2.1 Modeling Climate Risk and Investment Strategies in the	3.1: Session 3.1 Energy System Modelling			
12:00pm	Location: R11 T03 C20 Chair: Christoph Weber	Energy Transition Location: R11 T03 C05	Location: R11 T03 C82 Chair: Florian Ziel			
	10:30am - 11:00am	Chair: Kateryna Chekriy	10:30am - 11:00am			
		10:30am - 11:00am				
	Leveraging Spatially Explicit Data for Accurate Renewable	Financial scenario analysis	From Data to Decision: Systematic Integration of			
	Energy Forecasting in France	model of the energy transition -	prospective Life Cycle			
	Eloi Lindas ^{1,2} , Yannig Goude ³ ,	the case of Poland	Assessment (pLCA) in Energy			
	Philippe Ciais ²	Bartosz Sobik ^{1,2}	System Modelling for Offshore			
	1: Atos Inno'Lab; 2: Laboratoire des Sciences du Climat & de	1: SGH Warsaw School of Economics; 2: Hitachi Energy Research	Wind Expansion Alicia Benitez ^{1,2} , Christina Wulf ¹ , Prof.			
	l'Environnement; 3: EDF R&D Lab	2. That is though the second in	Jutta Geldermann ²			
		11:00am - 11:30am	Forschungszentrum Jülich, Germany; Business Administration and			
	11:00am - 11:30am	Too hot to handle? Assessing	Production Management, University of			
	A probabilistic merit order: a	climate risk exposure of	Duisburg-Essen			
	data-driven fundamental model	renewable power plant				
	for electricity price forecasting	investments in future power	11:00am - 11:30am			
	Paul Ghelasi, Florian Ziel University of Duisburg-Essen, Germany	systems	Representing the Solar Rebound			
	Offiversity of Duisburg-Esseri, Germany	Silke Johanndeiter, Paul Pütz, Leonie Plaga, Valentin Bertsch	Effect in an Energy System			
		Ruhr University Bochum, Germany	Model – Impacts on European			
	11:30am - 12:00pm		Transformation Pathways			
	Flexibility of German gas-fired	44:20am 42:00mm	Mensur Delic, Michael Bucksteeg FernUniversität Hagen, Germany			
	generation: evidence from	11:30am - 12:00pm	r emoniversitat riagen, Germany			
	clustering empirical operation Chiara Fusar Bassini ^{1,2,3} , Alice Lixuan	Agent-based modeling of investment decisions under				
	Xu ¹ , Jorge Sánchez Canales ¹ , Lion	uncertainty	11:30am - 12:00pm			
	Hirth ¹ , Lynn Helena Kaack ^{1,2}	Leonard Willeke, Johannes	Disentangling the Effects of			
	1: Centre for Sustainability, Hertie	Kochems, Kristina Nienhaus	Metering and Tariff			
	School, Berlin, Germany; 2: Data Science Lab, Hertie School, Berlin,	German Aerospace Center (DLR), Germany	Configurations on Household Flexibility in Energy Systems			
	Germany; 3: Laboratory for Information	Comany	Marco Breder			
	and Decision Systems, Massachusetts Institute of Technology, Cambridge, US		Universität Duisburg-Essen, Germany			
12:00pm	Lunch Day 1: Lunch Day 1					
4.000	Location: R12 S00 H12 (Glaspavillon)					
1:00pm	1.2: Session 1.2 Electricity Price	2.2: Soccion 2.2 Invoctment Blame're	2.2: Specion 2.2 Pohovior and Police			
1:00pm -	Forecasting: Ensemble Modelling	2.2: Session 2.2 Investment Planning in Power Systems	3.2: Session 3.2 Behavior and Policy in the Energy Transition			
2:00pm	Location: R11 T03 C20 Chair: Florian Ziel	Location: R11 T03 C05 Chair: Rüdiger Kiesel	Location: R11 T03 C82 Chair: Christoph Weber			
	1:00pm - 1:30pm	1:00pm - 1:30pm	1:00pm - 1:30pm			
	Forecasting Belgian imbalance	Equilibrium Power Market	The German balancing energy			
	prices using machine learning: A	Investments - Investigating	market reform: Analyzing effects			
	structured approach	equilibria of capacity payments	on prices, liquidity and			
	Arnaud Verstraeten, Maria Margarida	Amir Ashour Novirdoust, Hendrik	competition			
	Mascarenhas, Hussain Syed Kazmi	Diers, Pia Willers	I			

	KU Leuven, Belgium	Institute of Energy Economics at the University of Cologne (EWI), Germany	Michaele Diehl ¹ , Merit Dressler ¹ , Michael Bucksteeg ^{1,2} 1: Institute of Energy Economics at the		
	1:30pm - 2:00pm Assessing flexibility option	1:30pm - 2:00pm	University of Cologne; 2: FernUniversität in Hagen		
	potential by combining electricity price forecasting and agent-based electricity market modelling Felix Nitsch, Christoph Schimeczek German Aerospace Center (DLR), Institute of Networked Energy Systems	A user-centered decision-making tool for high level planning and impact assessment of wind farms in Europe Luis Ramirez Camargo¹, Thomas Schauppenlehner², Christian Mikovits², Giuseppe Giorgi³, Andrea N. Hahmann⁴, Neil N. Davis⁴, Rebecca Hueting⁵, Lien Bakelants⁶ 1: Copernicus Institute of Sustainable Development, Utrecht University, Netherlands.; 2: University of Natural Resources and Life Sciences, Vienna (BOKU), Austria; 3: Marine Offshore Renewable Energy Lab, Politecnico di Torino, Italy; 4: Dept. of Wind and Energy Systems, Technical University of Denmark; 5: DeepBlue, Italy; 6: Nazka Mapps, Belgium	1:30pm - 2:00pm Here Comes the Sun: Investigating Facets of the Solar Rebound Effect in Photovoltaic Households Stefan Poier¹, Michael Bucksteeg¹,² 1: FernUniversität in Hagen, Germany; 2: Institute of Energy Economics (EWI), University of Cologne, Germany		
2:00pm - 2:30pm	Coffee Break (1): Coffee Break (1) Location: R11 T03 C75				
2:30pm - 3:30pm	1.3: Session 1.3 Day-Ahead Electricity Price Forecasting Location: R11 T03 C20	2.3: Session 2.3 Batteries in Electricity Markets Location: R11 T03 C05	3.3: Session 3.3 Hydrogen Systems and Markets Location: R11 T03 C82		
3.30pm	Chair: Florian Ziel	Chair: Rüdiger Kiesel	Chair: Christoph Weber		
	2:30pm - 3:00pm	2:30pm - 3:00pm	2:30pm - 3:00pm		
	Forecasting day-ahead electricity prices with temporal hierarchies Arkadiusz Lipiecki ¹ , Nikolaos	Assessing the Profitability of Large-Scale Batteries in the UK Electricity Market	Regional Investment Planning of Sector-Coupling Technologies Using Benders Decomposition		
	Kourentzes ² , Rafał Weron ¹ 1: Wroclaw University of Science and Technology, Poland; 2: University of Skövde, Sweden	Nina Lange ¹ , Stefan Ropke ² 1: University of Copenhagen, Denmark; 2: Technical University of Denmark	<u>Daniel Brunsch</u> , Hendrik Kramer, Christoph Weber Universität Duisburg-Essen, Germany		
	3:00pm - 3:30pm	3:00pm - 3:30pm	3:00pm - 3:30pm		
	Day-Ahead Electricity Price Forecasting in the Integrated Single Electricity Market George Foster, Xueqin LIU Queen's University Belfast, United Kingdom	Multiple-split probabilistic forecasting: applications to battery trading strategies Tomasz Weron, Katarzyna Maciejowska Wroclaw University of Science and Technology, Poland	The Global Hydrogen Market: Understanding the Interdependencies between its Techno-Economic System and the Market Environment Arnd Hofmann, Cornelia Klüter, Marco Sebastian Breder, Christoph Weber House of Energy Markets and Finance, Universität Duisburg-Essen, Germany		
4:45pm	Social Event: Social Event: guided tou	rs at Zollverein			
5:45pm 6:00pm	Conference Dinner: Conference Dinner at Casino Zollverein				

-9:45pm

-	1.4: Session 1.4 Energy Forecasting:	2.4: Session 2.4 Challenges in Energy	3.4: Session 3.3 Redispatch and
10:15am	Weather Impact Location: R11 T03 C20	Market Design Location: R11 T03 C05	Market Design Location: R11 T03 C82
. 5. 75diii	Chair: Florian Ziel	Chair: Rüdiger Kiesel	Chair: Christoph Weber
	9:15am - 9:45am	9:15am - 9:45am	9:15am - 9:45am
	Strategies to improve federated	Holistic Exploration of Near-	Analyzing and Forecasting
	forecasts of day-ahead PV power production	Optimal Design Spaces of MILP Industrial Energy Systems with	Redispatch Volumes in Germany: Insights into Market-
	<u>Viktor Walter</u> ¹, Andreas Wagner¹,²	Economies of Scale	Based Redispatch Mechanisms
	1: Karlsruhe University of Applied Sciences, Germany; 2: Fraunhofer	Alwin Haese, Hendrik Schricker, Niklas von der Assen	<u>Teodora Dobos</u> , Martin Bichler Technical University of Munich,
	Institute of Industrial Mathematics (ITWM)	Institute of Technical Thermodynamics,	Germany
	(TTVVIVI)	RWTH Aachen University, Germany	
	9:45am - 10:15am	0.45am 40.45am	9:45am - 10:15am
	Probabilistic Electricity Price	9:45am - 10:15am Market Design and Cost	Dynamic grid fees as a signal of transmission network
	Forecasting Using Weather-	Recovery: Impacts of a Bidding	congestion – what is the
	Based Scenarios in the German Continuous Intraday Market	Zone Reconfiguration in the German Power System	potential in reducing redispatch costs in a zonal market?
	Andrzej Ryszard Puć, Joanna Janczura	<u>Tim Schubert,</u> Gunter Grimm, Anke Weidlich, Mirko Schäfer	Gunter Grimm, Rebecca Hofmann, Mirko Schäfer, Anke Weidlich
	Wroclaw University of Science and	Albert-Ludwigs-Universität Freiburg,	INATECH - University of Freiburg,
	Technology, Poland	Institute for Sustainable Systems Engineering - INATECH	Germany
10:15am	Coffee Break (2): Coffee Break (2) Location: R11 T03 C75		
- 10:30am	Location, IXII 103 O13		
10:30am			
- 11:30am	Location: R12 S00 H12 (Glaspavillon)		ivestment in Germany
11:30am	1.5: Electricity Price Forecasting:	2.5: Session 2.5 Electricity Markets –	3.5: Session 3.5 Drivers of Electricity
- 1:00pm	Interpretable Machine Learning Location: R11 T03 C20	Pricing, Risk, and Valuation Location: R11 T03 C05	Prices Location: R11 T03 C82
1.00piii	Chair: Florian Ziel	Chair: Rüdiger Kiesel	
			Chair: Christoph Weber
	11:30am - 12:00pm	11:30am - 12:00pm	
	Electricity Price Forecasting with	Dynamic electricity pricing and	Chair: Christoph Weber 11:30am - 12:00pm Drivers of Cross-Border
		Dynamic electricity pricing and time-of-use network charges for	Chair: Christoph Weber 11:30am - 12:00pm Drivers of Cross-Border Electricity Flows in Europe:
	Electricity Price Forecasting with eXtreme Gradient Boosted Decision Trees Kaja Bilińska, Arkadiusz Lipiecki,	Dynamic electricity pricing and time-of-use network charges for private households – Are mixed signals favorable?	Chair: Christoph Weber 11:30am - 12:00pm Drivers of Cross-Border Electricity Flows in Europe: Evidence from a Gravity Model Justyna Borowiec-Kapek, Monika
	Electricity Price Forecasting with eXtreme Gradient Boosted Decision Trees Kaja Bilińska, Arkadiusz Lipiecki, Rafał Weron	Dynamic electricity pricing and time-of-use network charges for private households – Are mixed signals favorable? Hendrik Kramer	Chair: Christoph Weber 11:30am - 12:00pm Drivers of Cross-Border Electricity Flows in Europe: Evidence from a Gravity Model Justyna Borowiec-Kapek, Monika Papież
	Electricity Price Forecasting with eXtreme Gradient Boosted Decision Trees Kaja Bilińska, Arkadiusz Lipiecki,	Dynamic electricity pricing and time-of-use network charges for private households – Are mixed signals favorable?	Chair: Christoph Weber 11:30am - 12:00pm Drivers of Cross-Border Electricity Flows in Europe: Evidence from a Gravity Model Justyna Borowiec-Kapek, Monika
	Electricity Price Forecasting with eXtreme Gradient Boosted Decision Trees Kaja Bilińska, Arkadiusz Lipiecki, Rafał Weron Wrocław University of Science and	Dynamic electricity pricing and time-of-use network charges for private households – Are mixed signals favorable? Hendrik Kramer University Duisburg-Essen, Germany	Chair: Christoph Weber 11:30am - 12:00pm Drivers of Cross-Border Electricity Flows in Europe: Evidence from a Gravity Model Justyna Borowiec-Kapek, Monika Papież Krakow University of Economics,
	Electricity Price Forecasting with eXtreme Gradient Boosted Decision Trees Kaja Bilińska, Arkadiusz Lipiecki, Rafał Weron Wrocław University of Science and Technology, Poland 12:00pm - 12:30pm	Dynamic electricity pricing and time-of-use network charges for private households – Are mixed signals favorable? Hendrik Kramer	Chair: Christoph Weber 11:30am - 12:00pm Drivers of Cross-Border Electricity Flows in Europe: Evidence from a Gravity Model Justyna Borowiec-Kapek, Monika Papież Krakow University of Economics, Poland 12:00pm - 12:30pm
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	Electricity Price Forecasting with eXtreme Gradient Boosted Decision Trees Kaja Bilińska, Arkadiusz Lipiecki, Rafał Weron Wrocław University of Science and Technology, Poland 12:00pm - 12:30pm Electricity Price Forecasting: Bridging Linear Models and Neural Networks Btissame EL MAHTOUT, Florian Ziel	Dynamic electricity pricing and time-of-use network charges for private households – Are mixed signals favorable? Hendrik Kramer University Duisburg-Essen, Germany 12:00pm - 12:30pm Semi-static hedging of Volumetric Risk in Energy Markets - An application to Green PPAs and Quanto Options Konstantinos Chatziandreou, Sven	Chair: Christoph Weber 11:30am - 12:00pm Drivers of Cross-Border Electricity Flows in Europe: Evidence from a Gravity Model Justyna Borowiec-Kapek, Monika Papież Krakow University of Economics, Poland 12:00pm - 12:30pm Spatial Effects In European
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	Electricity Price Forecasting with eXtreme Gradient Boosted Decision Trees Kaja Bilińska, Arkadiusz Lipiecki, Rafał Weron Wrocław University of Science and Technology, Poland 12:00pm - 12:30pm Electricity Price Forecasting: Bridging Linear Models and Neural Networks Btissame EL MAHTOUT, Florian Ziel Duisburg-Essen University, Germany	Dynamic electricity pricing and time-of-use network charges for private households – Are mixed signals favorable? Hendrik Kramer University Duisburg-Essen, Germany 12:00pm - 12:30pm Semi-static hedging of Volumetric Risk in Energy Markets - An application to Green PPAs and Quanto Options Konstantinos Chatziandreou, Sven Karbach University of Amsterdam, Netherlands,	Chair: Christoph Weber 11:30am - 12:00pm Drivers of Cross-Border Electricity Flows in Europe: Evidence from a Gravity Model Justyna Borowiec-Kapek, Monika Papież Krakow University of Economics, Poland 12:00pm - 12:30pm Spatial Effects In European Electricity Price Forecasting Sultan Mahmud Chomon, Florian Ziel University of Duisburg-Essen, Germany 12:30pm - 1:00pm Forecasting Electricity Spot Market Merit-Order Curves with
	Electricity Price Forecasting with eXtreme Gradient Boosted Decision Trees Kaja Bilińska, Arkadiusz Lipiecki, Rafał Weron Wrocław University of Science and Technology, Poland 12:00pm - 12:30pm Electricity Price Forecasting: Bridging Linear Models and Neural Networks Btissame EL MAHTOUT, Florian Ziel Duisburg-Essen University, Germany 12:30pm - 1:00pm NBMLSS: probabilistic forecasting of electricity prices via Neural Basis Models for	Dynamic electricity pricing and time-of-use network charges for private households – Are mixed signals favorable? Hendrik Kramer University Duisburg-Essen, Germany 12:00pm - 12:30pm Semi-static hedging of Volumetric Risk in Energy Markets - An application to Green PPAs and Quanto Options Konstantinos Chatziandreou, Sven Karbach University of Amsterdam, Netherlands, The 12:30pm - 1:00pm The real cost of electricity:	Chair: Christoph Weber 11:30am - 12:00pm Drivers of Cross-Border Electricity Flows in Europe: Evidence from a Gravity Model Justyna Borowiec-Kapek, Monika Papież Krakow University of Economics, Poland 12:00pm - 12:30pm Spatial Effects In European Electricity Price Forecasting Sultan Mahmud Chomon, Florian Ziel University of Duisburg-Essen, Germany 12:30pm - 1:00pm Forecasting Electricity Spot Market Merit-Order Curves with Functional Time Series Modeling Guillaume Koechlin¹, Filippo Bovera²
	Electricity Price Forecasting with eXtreme Gradient Boosted Decision Trees Kaja Bilińska, Arkadiusz Lipiecki, Rafał Weron Wrocław University of Science and Technology, Poland 12:00pm - 12:30pm Electricity Price Forecasting: Bridging Linear Models and Neural Networks Btissame EL MAHTOUT, Florian Ziel Duisburg-Essen University, Germany 12:30pm - 1:00pm NBMLSS: probabilistic forecasting of electricity prices via Neural Basis Models for Location Scale and Shape	Dynamic electricity pricing and time-of-use network charges for private households – Are mixed signals favorable? Hendrik Kramer University Duisburg-Essen, Germany 12:00pm - 12:30pm Semi-static hedging of Volumetric Risk in Energy Markets - An application to Green PPAs and Quanto Options Konstantinos Chatziandreou, Sven Karbach University of Amsterdam, Netherlands, The 12:30pm - 1:00pm	Chair: Christoph Weber 11:30am - 12:00pm Drivers of Cross-Border Electricity Flows in Europe: Evidence from a Gravity Model Justyna Borowiec-Kapek, Monika Papież Krakow University of Economics, Poland 12:00pm - 12:30pm Spatial Effects In European Electricity Price Forecasting Sultan Mahmud Chomon, Florian Ziel University of Duisburg-Essen, Germany 12:30pm - 1:00pm Forecasting Electricity Spot Market Merit-Order Curves with Functional Time Series Modeling
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1: ETH Zürich, Switzerland; 2: Paul Scherrer Institut, Switzerland

1:00pm	Lunch Day 2: Lunch Day 2 Location: R12 S00 H12 (Glaspavillon)				
2:00pm	Location. 1412 000 1112 (Glaspavinon)				
2:00pm	Keynote 3: Prof. Jethro Browell, University of Glasgow: Forecasting the wind: From necessity to added value Location: R12 S00 H12 (Glaspavillon)				
3:00pm	Location: N12 300 H12 (Glaspavillott)				
3:00pm	Coffee Break (3): Coffee Break (3) Location: R11 T03 C75				
- 3:15pm	Location. KTT 103 G73				
3:15pm	1.6: Session 1.6 Electricity Price and	2.6: Session 2.6 Technology	3.6: Session 3.6 Technological and		
-	Load Forecasting Location: R11 T03 C20	Assessment and Environmental Sustainability	Analytical Advances in Energy Systems		
5:15pm	Chair: Florian Ziel	Location: R11 T03 C05 Chair: Rüdiger Kiesel	Location: R11 T03 C82 Chair: Christoph Weber		
	3:15pm - 3:45pm	_			
	Extreme Electricity Price Spike	3:15pm - 3:45pm	3:15pm - 3:45pm		
	Forecasting for Risk	Assessment of Economic and	Overview of Public Data and		
	Management via Excursion	Environmental Sustainability for	Models for Combined Heat and		
	Metric Projections	Innovative Valorization of Slag from Waste Treatment	Power Generation in Germany		
	Abhinav Das ¹ , Stephan Schlüter ²	Prof. Dr. Jutta Geldermann ¹ , Leon	Jie Xu, Dennis Schneider, Philipp Castro, Maike Spilger, Christoph		
	1: Ulm University, Germany; 2: University of Applied Sciences, Ulm	Zacharopoulos ¹ , Prof. Dr. Rüdiger Deike ² , Dr. Ida Adhiwiguna ³	Weber University of Duisburg-Essen, Germany		
		1: Chair of Business Administration and			
	3:45pm - 4:15pm	Production Management, University of			
	Enhancing electricity price	Duisburg-Essen, Germany; 2: Chair of Metallurgy—Institute for Technologies of	3:45pm - 4:15pm		
	forecasting accuracy: A novel	Metals, University of Duisburg-Essen,	The Impact of Insurance Sector		
	filtering strategy for improved	Germany; 3: Pt. Zenith Allmart	Development on CO2 Emissions:		
	out-of-sample predictions	Precisindo, East Java, Indonesia	Evidence from G7 Countries		
	Andrea Cerasa, <u>Alessandro Zani</u>		Using the Panel NARDL		
	European Commission - Joint Research Centre (JRC)	3:45pm - 4:15pm	Approach Maissa Dorbez, Manel Kacem, Mouna		
	4:15pm - 4:45pm	Incorporating Forward-Looking Data in Probabilistic Analysis of Net-Zero Commitments	Mrad Higher Institute of commercial studies (IHEC), Tunisia		
	Short-term probabilistic energy	Kateryna Chekriy, Rüdiger Kiesel			
	load forecasting with GAMLSS framework	University of Duisburg-Essen, Germany	4:15pm - 4:45pm		
	<u>Katarzyna Chęć</u> , Bartosz Uniejewski,		Energy Sharing in the		
	Rafał Weron		Commercial Sector with a Focus		
	Wrocław University of Science and		on SMEs in Germany		
	Technology, Poland		Sven Müller Technische Hochschule Aschaffenburg,		
	4:45pm - 5:15pm		Germany		
	Comparative analysis of the electricity prices in France and Germany, 2015-2024				
	<u>Kallia Charron</u> ^{1,2} 1: EDF, France; 2: Université Paris Nanterre				