

# Mario Liebensteiner

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## Positions

Assistant professor of economics: energy markets and energy systems analysis. Friedrich-Alexander Universität Erlangen-Nuremberg (FAU), since 07/2020

6-years tenure track from W1 to W3 full professorship

Positive mid-term evaluation in 06/2023 (= habilitation equivalent)

Post-doc fellow: Technical University of Kaiserslautern, Chair of Resource and Energy Economics, 02/2018–06/2020

Pre-doc, resp. post-doc fellow: WU Vienna, Department of Economics: 09/2010–01/2018

## Education

Doctorate in Economics, Vienna University of Economics & Business (WU), 2014

Diploma studies in Economics, University of Linz, Austria, 2010

Exchange program at City University of Hong Kong: winter 2008/09

## Service

Member of the expert committee "Energy Systems of the Future" (ESYS) of the German Science Academies (acatech), since 2021

Member of the Research Committee and Board of the Energie Campus Nürnberg (EnCN)

Mentor for early-stage females in academia (ARIADNEReWi program): currently mentoring Bianca Haustein, doctoral student of economics at FAU. Former mentee: Katharina Adler.

Organizer of the bi-annual students graduation ceremony at FAU's School of Business, Economics and Society (WiSo)

## Research

### *Revise & resubmit*

- 4 Almost Fare Free: Impact of a Cheap Public Transport Ticket on Mobility Patterns and Infrastructure Quality. With Jakob Losert, Sarah Necker, Florian Neumaier, Jörg Paetzold, and Sebastian Wichert. **Revise & resubmit: Journal of Public Economics.**
- 3 Hydrogen-Ready Power Plants: Optimizing Pathways to a Decarbonized Energy System in Germany. With Anas Abuzayed and Niklas Hartmann. **Revise & resubmit: Applied Energy.**
- 2 Beyond Borders: Estimating the Marginal Emission Factor of Electricity Trade. With Filippo Beltrami and Luigi Grossi. **Revised & resubmitted: Energy Economics.**
- 1 Fuel Prices as a Driver of Sustainable Mobility: Impacts on Traffic Volume and Vehicle Choice. **Revised & resubmitted: Energy Economics.**

### *Papers under review*

- 4 From Gas to Coal: Environmental and Health Impacts of Europe's Energy Crisis. With Alex Kimani. *Under review (JEBO)*.
- 3 Mitigating Load Shedding in South Africa: The Role of Intermittent Renewable Energies. With Christoph Funk and Johannes Paha. *Under review (JAERE)*.
- 2 Marginal emissions, average emissions, and climate bookkeeping. With Matthew Brander, Adhurim Haxhimusa, and Luca Taschini. *Under review (JAERE)*.
- 1 Wind Turbines and Local Economies: Effects on Housing, Tourism, and Municipality Income. With Sven Heim and Felix Michelet. *Under review (JEEM)*.

### *Research in progress*

- 8 When Storage Competes with Renewables: An Underestimated Trade-off in the Decarbonization Transition. With Stefan Lamp and Mario Samano. *Working paper almost finished*.
- 7 Impact of Public Transport Fares on Car and Public Transport Use: Evidence from Munich. With Florian Neumeier and Ülkü Bıçakçı. *Work in progress*.
- 6 Renewable energies' effect on electricity redispatch and emissions in Germany. With Bianca Gaugel. *Main empirical results obtained. Working paper will be available by mid of 2025*.
- 5 Effectiveness of Renewable Energy Support Payments. With Ülkü Bıçakçı. *First empirical results obtained*.
- 4 A higher carbon certificate price can lead to increasing national emissions. With Adhurim Haxhimusa and Jeffery Wong. *First preliminary results available. Draft version will be completed during 2025*.
- 3 Marginal emissions associated with imports of a carbon-free economy. With Adhurim Haxhimusa and Jeffery Wong. *In progress*.
- 2 Strategic capacity withholding in the electricity market: how intermittent renewables are being curtailed to exploit market power. *Main results obtained. Draft version will be finished during 2025*.
- 1 Low Emission Zones: Empirical Analysis of an Adverse Effect on Germany's Highway Traffic Volume. *First preliminary results available. Draft version will be finished during 2025*.

### *Peer-reviewed journal publications*

- 18 Bridging to Net-Zero: Flexibility Potential and Cost-Benefit Analysis of Small and Medium Enterprises in Germany's Energy Transition. With Anas Abuzayed and Niklas Hartmann. **Energy Conversion and Management**, X, 25, 2025. [IF: 7.1 (2024)]
- 17 High electricity price despite expansion in renewables: How market trends shape Germany's power market in the near future. With Fabian Ocker and Anas Abuzayed. **Energy Policy**, 198, 2025. [IF: 9.3 (2024)]
- 16 Incumbency Advantages: Price Dispersion, Price Discrimination and Consumer Search at Online Platforms. With Klaus Gugler, Sven Heim & Maarten Janssen. **Journal of Political Economy Microeconomics**, 1(2), 2023.
- 15 Carbon Pricing and Emissions: Causal Effects of Britain's Carbon Tax. With Klaus Gugler & Adhurim Haxhimusa. **Energy Economics**, 121, 2023. [IF: 13.6 (2022)]
- 14 Subsidized Renewables' Adverse Effect on Energy Storage and Carbon Pricing as a Potential Remedy. With Adhurim Haxhimusa & Fabian Naumann. **Renewable and Sustainable Energy Reviews**, 171, 2022. [IF: 16.799 (2022)]
- 13 Can Carbon Pricing Counteract Renewable Energies' Cannibalization Problem? With Fabian Naumann. **Energy Economics**, 115, 2022. [IF: 12.8 (2022)]

- 12 Scarcity events analysis in adequacy studies using CN2 rule mining. With Fabian Heymann, Ricardo Bessa, Konstantinos Parginosce, Juan C.M. Hinojar & Pablo Duenas. **Energy and AI**, 2022, 8. [IF: 9.6 (2022)]
- 11 Effects of electricity demand reductions under a carbon pricing regime on emissions: lessons from COVID-19. With Adhurim Haxhimusa. **Energy Policy**, 2021, 112392. [IF: 9.0 (2022)]
- 10 Effectiveness of Climate Policies: Carbon Pricing vs. Subsidizing Renewables With Klaus Gugler & Adhurim Haxhimusa. **Journal of Environmental Economics and Management**, 2021, 106. [IF: 5.8 (2021); since publication, our study has remained among the top 5 most cited studies published in JEEM]
- 9 Unbundling, Regulation and Pricing: Evidence from Electricity Distribution. With Sven Heim and Bastian Krieger. **The Energy Journal**, 2020, 41. [IF: 3.494 (2021)]
- 8 Do Intermittent Renewables Threaten the Electricity Supply Security? With Matthias Wrienz. **Energy Economics**, 2020, 87, 104499. [IF: 7.0 (2020)]
- 7 Investment Opportunities, Uncertainty, and Renewables in European Electricity Markets. With Klaus Gugler, Adhurim Haxhimusa and Nora Schindler. **Energy Economics**, 2019, 85, 104575. [IF: 7.0 (2020)]
- 6 Productivity Growth and Incentive Regulation in Austria's Gas Distribution. With Klaus Gugler. **Energy Policy**, 2019, 134. [IF: 6.1 (2020)]
- 5 Integration of European Electricity Markets: Evidence from Spot Prices. With Klaus Gugler and Adhurim Haxhimusa. **The Energy Journal**, 2018, 39, 41–66. [IF: 4.9 (2018)]
- 4 Vertical Disintegration in the European Electricity Sector: Empirical Evidence on Lost Synergies. With Klaus Gugler and Stephan Schmitt. **International Journal of Industrial Organization**, 2017, 52, 450–478
- 3 Short-term Labour Migration from the Republic of Armenia to the Russian Federation: Empirical Study on Determinants and Effects. With Christian Bellak and Markus Leibrecht. **Journal of Development Studies**, 2014, 50(3), 349–367.
- 2 Estimating the Income Gain of Seasonal Labor Migration. **Review of Development Economics**, 2014, 18(4), 667–680.
- 1 Attracting Foreign Direct Investment: The Public Policy Scope for South East European Countries. With Christian Bellak and Markus Leibrecht. **Eastern Journal of European Studies**, 2010, 1(2), 37–53.

### *Non-peer-reviewed publications*

Germany's 9-Euro Ticket: Impact of a Cheap Public Transport Ticket on Mobility Patterns and Infrastructure Quality. Mario Liebensteiner, Jakob Losert, Sarah Necker, Florian Neumeier, Jörg Pätzold, Sebastian Wichert. **EconPol Forum**, 2025, 1, nr. 26.

Auswirkungen des 9-Euro-Tickets auf das Mobilitätsverhalten der Bevölkerung. Mario Liebensteiner, Jakob Losert, Sarah Necker, Florian Neumeier, Jörg Pätzold, Sebastian Wichert. **ifo Schnelldienst**, 2024, 77, nr. 08.

Investitionsanreize setzen, Reservekapazitäten sichern: Optionen zur Marktintegration erneuerbarer Energien. Stellungnahme des Akademienprojekts „Energiesysteme der Zukunft“. **acatech / Leopoldina / Akademienunion**. Kühling, J., Haucap, J., ..., Liebensteiner, M., et al. May 2023.

Erneuerbare Energien effizient und wirksam fördern. With Haucap J., Kühling J., Amin M., Brunekreeft G., Fourquet D., Grimm V., Gundel J., Kment M., Ketter W., Kreusel J., Kreuter-Kirchof C., Moser A., Ott M., Rehtanz C., Wetzels H., Meinhof J., Wagner M., Borgmann M., Stephanos C. **Wirtschaftsdienst**, 2022, 694–702.

Ausgleichsmechanismen für die Energiekrise: Eine kritische Auseinandersetzung mit den wichtigsten Vorschlägen zur Entschärfung ihrer Preiswirkungen. With Haucap J. & Meinhof J. **Ifo-Schnelldienst**, 2022, 12.

Direct Taxation of Business in South-East-Europe. With Christian Bellak. In: Sternad, D. Döring, T. (eds.), 2012, **Handbook of Doing Business in South East Europe**, Palgrave Macmillan, Houndmills.

The Transport and IT Infrastructure in South and Eastern European Countries. With Markus Leibrecht. In: Sternad, D. Döring, T. (eds.), 2012, **Handbook of Doing Business in South East Europe**, Palgrave Macmillan, Houndmills.

## Teaching

*Recipient of the 2024 Award for Excellence in Teaching by the Bavarian State Ministry of Science and the Arts (StMWK), in recognition of outstanding achievements in teaching. Endowed with €5,000.*

*Excellent student evaluations for all courses instructed*

*Voted among top 20 teaching instructors at WU Vienna in 2017*

*Supervision of multiple Master's and Bachelor's theses as well as multiple term papers and project theses*

FAU Erlangen Nuremberg:

**Climate and Resource Economics**, German, BA level, each summer term 2021–ongoing

**Empirical Environmental Economics**, English, MA level, each winter term 2020–ongoing

**Seminar Energy Markets** (with Prof. Grimm & Prof. Zöttl), English in the winter term, German in the summer term, BA & MA level, each term 2020–ongoing

**Seminar in Energy and Environmental Economics: Econometric Applications**, English, MA level, each summer term 2025–ongoing

**Economics, Politics & Society** German, lecture series: my part was on energy policy during time of crisis; each fall 2022–ongoing

TU Kaiserslautern:

**Econometrics: Causality & Treatment Evaluation**, English, Ph.D level, fall 2019

**Energy Economics**, English, MA level, spring 2019 & spring 2020

**Resource Economics**, English, MA level, fall 2018 & fall 2019

**Environmental Economics**, English, MA level, fall 2018 & fall 2019

**Competition & Regulation** (with Prof. Robert Schmidt), English, MA level, spring 2018

**Leading in Global Responsibility**, German, MA level, spring 2019 & spring 2020 (lecture series: my part was on climate policy)

**MA Research Seminar**, English, Energy, Environmental & Resource Economics, fall 2018 & fall 2019

**BA Research Seminar**, German, Energy, Environmental & Resource Economics, spring 2018

WU Vienna:

**Applied Microeconomics**, German, BA level, fall 2012–fall 2015 & fall 2016–spring 2017

**Introductory Economics**, English, Ph.D. level: “Common Body of Knowledge” for PhD students without a background in economics, spring 2016 & fall 2017

**Managerial Economics**, English, MA program “Strategy, Innovation and Management Control”, spring 2016

**Managerial Economics**, German, MA program “Management”, fall 2017

## PhD Supervision

Supervision of doctoral candidate Anas Abuzayed. Since 01/2023, ongoing

Member of the doctoral committees for Simon Mehl (FAU, 12/2022), Tobias Kaloud (WU Vienna, 04/2023) & Gian Luca Vriz (U Padova, 03/2025)

De-factor co-supervision of doctoral candidate Fabian Naumann at the TU Kaiserslautern (PhD conferred in 01/2023)

## Third-party Funding

Fritz Thyssen Foundation: "The Impact of Intermittent Renewable Energy on Power Grid Redispatch", PI. Total: €120,000. *Under review. Decision expected by June 2025.*

N-ERGIE AG: Research project on energy system transformation & spot price expectations. Co-PI with Prof. Gregor Zöttl. Total: €40,000 (€20,000 for my chair).

DFG Individual Research Grant: "Flexibility Unlocked: Assessment of Flexibility Requirements and Policy Interventions for a Successful, Cost-Optimal German Energy Transition (DE-FLEX)", PI. Total: €260,000. *Declined on 20.12.2024 despite outstanding reviews, all recommending acceptance. I emphasize this, because it demonstrates that I am capable of convincing reviewers.*

Schöller Foundation: "The Optimal Investment Path to Net Zero vs. the Economic Reality of Distorted Signals from State Interventions", PI. Total: €20,000.

ifo Munich: project funding of a 'bridge project' to foster research cooperation between ifo Munich and FAU Erlangen-Nuremberg. Funding of a research project on 'Effect of public transport fare reductions on car usage in Munich'. PI. Total: €100,000 (€50,000 for my chair).

Fritz Thyssen Foundation: funding of the research project "Subsidies for the Energy Transition: Effectiveness and Take-up Barriers", co-PI. Total: €130,000 (€15,249 for my chair).

ifo Munich: project funding of a 'bridge project' to foster research cooperation between ifo Munich and FAU Erlangen-Nuremberg. Funding of a research project on the '9-Euro Ticket' (temporary reduction in public transportation fares). Co-applicant. Total: €100,000 (€13,800 for my chair).

Hans-Frisch Foundation: funding of the research project 'Mitigating Load Shedding in South Africa: The Role of Intermittent Renewable Energies'. PI. Total: €4,786.

TenneT GmbH: Research project on Flexibility Measures in the Electricity System. Principal investigator. Total: €30,000.

Fritz Thyssen Foundation: travel grant for research stay at HEC Montreal, Canada, during August 2023 of €2,082

Bavarian Research Alliance: travel grant for research stay at HEC Montreal, Canada, during August 2023 of €1,500

## Reviewing activity

*Research grants:* Reviewer for DFG (German Research Foundation) project applications (2x) | Reviewer for the Humboldt Foundation's Georg Forster Research Fellowship for experienced researchers (2x) | Reviewer for DAAD (German Academic Exchange Service) grants for research stays of researchers from Ukraine | Reviewer for DAAD grants for German graduate programs for students from Belarus.

*Academic journals:* Empirica | Energy Economics (ENECO) (7x) | Energy Journal (9x) | Energy Policy (7x) | Environmental and Resource Economics (ERE) (2x) | International Review of Environmental and Resource Economics (IRERE) | Journal of Environmental Economics and Management (JEEM) (5x) | Journal of Regulatory Economics | Journal of the European Economic Association (JEEA) | Journal of Environmental Economics & Policy (JEEP) | Journal of Environmental Management (JEMA) | Nature Climate Change | Nature Communications | Renewable and Sustainable Energy Reviews (RSER) (2x) | Review of Development Economics | Review of Industrial Organization (RIO) | Review of Network Economics | Sustainability | Telecommunications Policy | Utilities Policy

## Academic Visits

WU Vienna, March 2025

MINES Paris – PSL University, CERNA Center for Industrial Economics, August–September 2024

HEC Montreal, August–September 2023

WU Vienna, July 2022

ZEW Centre for European Economic Research, Mannheim, January 2017

ZEW Centre for European Economic Research, Mannheim, March 2015

## Presentations

- 2025 Smart and Sustainable Planning for Cities and Regions, Eurac Research, Uni Bolzano (scheduled, invited)  
IAEE Int'l conference, Paris  
Mannheim Conference on Energy and the Environment (scheduled, accepted)  
WU Vienna Economics Research Seminar (invited)  
WIFO Vienna Research Seminar (invited)  
Energieforschungsgesprächen Disentis (invited)  
Future Energies: Between Vision and Implementation, Deutsches Museum Nürnberg (invited)  
Lion's Club Erlangen (popular scientific lecture, invited)
- 2024 Carbon pricing workshop, Energy Studies Institute, National University of Singapore (invited)  
NOeG (Austrian Economic Association) Conference Vienna  
IEEE Int'l Conf. on Ren. Energies and Smart Technologies (IC-REST), Uni. Prishtina  
FAU Insights: popular lecture on climate policy, EnCN & FAU Nuremberg  
Bavarian Micro Day, ifo Fürth  
Effects of cheap public transport (9-Euro Ticket) (invited), Hochschule München
- 2023 Brownbag seminar, HEC Montreal  
Popular lecture on climate policy, Lange Nacht der Wissenschaften, Nuremberg  
Mannheim Conference on Energy and the Environment  
Brazilian-German Frontiers of Science and Technology Symposium, Bremen, co-chair  
Statistiktage Bamberg | Fürth - Energie & Preise  
NUElecture on Energy and Climate Policy, Neues Deutsches Museum Nuremberg
- 2022 ESYS Conference (German Science Foundations), Berlin  
Europ. Ass. of Environmental and Resource Economists (EAERE) Conf., Rimini Italy  
ifo Munich, research seminar (invited by Prof. Karen Pittel)  
Mannheim Conference on Energy and the Environment  
CESifo Area Conference on Public Economics, LMU Munich
- 2021 Bavarian Micro Day, LMU Munich  
European Association of Environmental and Resource Economists (EAERE) Conf., online  
Mannheim Conference on Energy and the Environment (ZEW), online  
Walter Raymond Foundation, Workshop on Sustainability  
Rotary Club Nuremberg (popular scientific lecture, invited)  
ÖGOR Workshop for Economics and Optimization in the Energy Industry, Vienna

- 2020 NOeG (Austrian Economic Association) Conference, WU Vienna  
Economics Research Seminar, TU Kaiserslautern
- 2019 Research Seminar, Uni Gießen  
International Conference on Competition and Regulation (CRESSE), Rhodes  
Conference on Auctions, Competition, Regulation, and Public Policy, Lancaster University  
Rheinland-Pfalz-Tag 2019, Annweiler (popular scientific lecture, invited)  
Research Seminar, TU Kaiserslautern
- 2018 FZU-ZEW Environmental Economics Brownbag Seminar, Mannheim  
Compass Lexecon: Brownbag Seminar, Brussels  
European Association for Research in Industrial Economics (EARIE) conference, Athens  
International Conference on Competition and Regulation (CRESSE), Heraklion  
Conference on Auctions, Competition, Regulation, and Public Policy, Lancaster University  
ZEW Energy Conference, Mannheim
- 2017 ICEFM, Montpellier Business School  
ZEW Research Seminar on Competition and Regulation, Mannheim  
Internationale Energiewirtschaftstagung (IEWT), TU Vienna  
Research seminar, WU Vienna
- 2016 International Conference on Competition and Regulation (CRESSE), Rhodes  
International Symposium of Energy and Finance Issues (ISEFI), Paris  
ZEW Energy Conference, Mannheim  
WIFO-Extern, Austrian Institute of Economic Research, Vienna
- 2015 Competence Day, WU Vienna  
Workshop on Regulatory Economics, WU Vienna  
Workshop on Corporate Governance in Network Industries (CGNI), Vienna  
International Conference on Competition and Regulation (CRESSE), Rethymnon  
ZEW Research Seminar on Competition and Regulation, Mannheim  
E&T Invited Talk, Vienna
- 2014 WIFO Extern, Austrian Institute of Economic Research, Vienna  
Vienna Energy Group (VEG), Vienna  
IAEE International Conference on Energy Economics, New York  
ZEW Energy Conference, Mannheim  
Workshop on Industrial Economics (Prof. Georg Götz), WU Vienna
- 2013 Workshop on Industrial Economics (Prof. Tomaso Duso), University Gießen  
Economics research seminar, WU Vienna
- 2012 Conference of the European Society of Population Economics (ESPE), Berne  
NOeG Annual Meeting of the Austrian Economic Association, Vienna  
IOM International Organization for Migration, Vienna  
WIFO-Extern, Austrian Institute of Economic Research, Vienna
- 2011 Summer School on the Economics of Migration, University of Valencia  
WIFO-Extern, Austrian Institute of Economic Research, Vienna  
Research seminar, WU Vienna

## Workshop & Seminar Organization

- ifo-FAU-KOMKIS Workshop on "Funding the Green Transition: Subsidies, Grants, and Transfers" (co-organizer), October 2025
- Co-organizer of session "Green Energy" at Humboldt Foundation's BRAGFOST Symposium 2023
- Bavarian Micro Day (co-organizer): spring 2022
- FAU Applied Microeconomics Research Workshop (co-organizer): fall 2020–spring 2024
- TU Kaiserslautern, Research Seminar (monthly series): fall 2018–spring 2020
- Meeting of the Vienna Energy Group, spring 2017
- Meeting of the Vienna Energy Group, spring 2016

WU Workshop on Regulatory Economics 2014

WU Workshop on Regulatory Economics 2013

WU Workshop on Regulatory Economics 2012

## **Professional Skills**

Languages: German (native), English (proficient), French, Spanish, Russian (basic knowledge)

Excellent command of statistical software (Stata), programming, and data management

Member of the Committee for Gender Equality at TU Kaiserslautern

Professional training received: (i) Successfully applying for ERC Grants and at other top-tier funding agencies; (ii) University didactics and academic instruction; (iii) Media exposure for academics, (iv) Rhetoric & appearance; (v) Presenting scientific content to non-scientific audiences; (vi) Acquisition of third-party funding

Last updated: May 8, 2025