



CURRICULUM VITAE

PERSONAL DATA

Date/Place of Birth: 7. September 1971, Rothenburg ob der Tauber
Nationality: German
Marital status: married w Claudia Löschel, children: Tilman (1999), Benno (2001), Ida (2004), Martha (2009)
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CURRENT POSITIONS

since 2021 Professor of Environmental/Resource Economics and Sustainability, **Ruhr-Universität Bochum**
since 2011 Chairman of the German Government's **Expert Commission to Monitor the Energy Transition**
since 2024 Chairman of the Board of Directors of the "Energy Systems of the Future" (ESYS) initiative of acatech, Leopoldina and the Union of the German Academies of Sciences and Humanities
since 2017 Head of the Virtual Institut **Smart Energy North Rhine-Westphalia**
since 2021 Senior Faculty Member of the **Ruhr Graduate School in Economics (RGS Econ)**

PROFESSIONAL EXPERIENCE

7/14-8/21 Professor of Economics (W3), esp. Energy & Resource Economics and Director of the Centre of Applied Economic Research Münster (CAWM), **University of Münster**
11/10-6/14 Professor of Economics (W3), esp. Environmental & Resource Economics, **University of Heidelberg**
8/07-6/2014 Head of the Research Department "Environmental and Resource Economics, Environmental Management" at **ZEW – Leibniz Centre for European Economic Research**
10/05–7/07 Scientific Officer, **European Commission**, DG Joint Research Centre, Institute for Prospective Technological Studies (IPTS), Seville, Spain
12/99–08/05 Senior Researcher (since 2005 with tenure) at **ZEW**

RESEARCH INTERESTS AND ACADEMIC IMPACT

Energy economics and policy, climate change economics, international environmental agreements, behavioural economics, computable general equilibrium modelling

Google Scholar: 10.333 citations, h-Index = 53 (19.02.2024)

Scopus: 3.818 citations, h-Index = 36, 119 papers (19.02.2024)

More than 90 articles in (Social) Sciences Citation Index Journals, e.g., Canadian Journal of Economics, Ecological Economics, *Economica*, *Economics Letters*, *Energy Research and Social Sciences*, *Energy Economics*, *Environmental and Resource Economics*, *Environmental Research Letters*, *European Economic Review*, *Journal of Environmental Economics and Management*, *Journal of Economic Dynamics and Control*, *Journal of Public Economics*, *Land Economics*, *Nature Climate Change*, *Nature Energy*, *Nature Geoscience* or *Proceedings of the National Academy of Sciences (PNAS)*

Editorial board memberships: *Climate Policy*, *Energy and Climate Change*, *Energy Journal*, *Frontiers of Engineering Management*, *Perspektiven der Wirtschaftspolitik*, *Resource and Energy Economics*

Editor of Special Issues: *Applied Energy*, *China Economic Review*, *Economica*, *Economics of Energy & Environmental Policy*, *Energy and Buildings*, *Energy Economics*, *Energy Policy*, *Frontiers of Engineering Management*, *Resources, Conservation & Recycling*, *Resource and Energy Economics*

EDUCATION

6/2009	Habilitation (Dr. rer. pol. habil.), Oldenburg University , university teaching credential for economics (Habilitation Title: Sustainability Impact Assessment with CGE Models)
2003	Dissertation (Dr. rer. pol.), Department of Economics, University of Mannheim , Germany (Dissertation Title: Economic Impacts of Climate Change Policy, summa cum laude)
9/03–12/03	Studies in the “Program on Negotiation” at Harvard University , Massachusetts Institute of Technology (MIT) and Fletcher School of Diplomacy, Tufts University , Cambridge (Mass.), USA
11/92–10/98	Diploma in Economics (Diplom-Volkswirt), University of Erlangen-Nuremberg , Germany
9/94–5/95	M.A., Economics, Wayne State University , Detroit, USA
8/93–9/93	Studies in Economics, University of California, Los Angeles (UCLA), USA

AFFILIATIONS AND RESEARCH VISITS

4/24-7/24	Visiting Researcher, Institute of Economics, Universität Barcelona
since 10/2021	Research Associate, RWI - Leibniz Institute for Economic Research
since 2021	Invited Researcher, J-PAL King Climate Action Initiative, MIT
since 2019	Research Associate, Institute of Economics, University of Barcelona
since 2018	Advisor to Fraunhofer Society , Munich, Germany
since 2017	Visiting Chair Professor, University of International Business and Economics (UIBE) , Beijing (Foreign Scholar, 111 Innovation Centre for Global Value Chains, SAFEA)
since 2016	CESifo Research Network Fellow, CESifo , Munich
since 2015	Advisor to Aurora Energy Research Limited , Oxford, UK
since 2013	Guest Professor, University of International Business and Economics (UIBE) , Beijing
since 2010	Research Associate, CCEP, Australian National University (ANU) , Canberra, Australia
7/21-9/22	Senior Fellow, University of Greifswald and Alfried-Krupp Wissenschaftskolleg (IAS)
2014-2021	Research Associate, ZEW , Mannheim
2017-2021	Co-Director, Australia-Germany Energy Transition Research Hub
2015-2017	Excellency Professor (High-End Foreign Expert of the State Administration of Foreign Experts Affairs SAFEA , State Council, PR China), P.R. China (Guest Professor since 2013)
6/19-8/19	Visiting Fellow, Australian National University (ANU) , Canberra, Australia
4/17-7/17	Oxford Martin Visiting Fellow, Oxford University
4/13	Senior Visiting Scholar, Tsinghua University , Beijing, China
9/15, 10/11	Visiting Researcher, Crawford School of Economics & Government,
10–11/2010	Australian National University (ANU) , Canberra, Australia
09/2010	Economist Visitors Programme, European Commission (DG Enterprise & Industry)
9/06–8/07	Visiting Professor in Economics, University Pablo de Olavide , Seville, Spain
5/05–7/05	Visiting Scholar, Department of Economics, Stanford University , Stanford, CA, USA
5/2004	Visiting Scholar, Joint Program on the Science and Policy of Global Change,
8–12/2003	Massachusetts Institute of Technology (MIT) , Cambridge (Mass.), USA

AWARDS AND HONOURS

since 2016	Elected Member of the National Academy of Science and Engineering (acatech)
since 2011	Chairman of the German Government’s Expert Commission to Monitor the Energy Transition
2022	German Prize for Economics of the Joachim Herz Stiftung for significant contributions to the further development of economic research (highest endowed research prize in economics in Germany)
2021	Prize for Science Communication “wissen.kommuniziert”, Münster University Society
2021 - 2022	Senior Fellowship, Alfried Krupp Institute of Advanced Studies (IAS)/ Alfried-Krupp Wissenschaftskolleg , Greifswald
2013 - 2020 (continually)	Among the 50 most influential economists in Germany in the Frankfurter Allgemeine Zeitung (F.A.Z.) Ranking of Economists
2019	ACT-ANU Energy Expert-in-Residence , Australian Capital Territory (ACT) and Australian National University (ANU), Canberra
2017	Oxford Martin Visiting Fellowship, University of Oxford
2017	Handelsblatt ranking of German speaking economists Top-100 Economists (current research), Top-100 Economists under 40 (2011, 2010, 2008, 2007)
2010, 2011	Scholarship of the German Academic Exchange Service (DAAD) for research visit at ANU
2005	Scholarship of Fritz Thyssen Foundation for research visit at Stanford University
2004	Award of the Karin Islinger Foundation for doctoral thesis, University of Mannheim
2000	German Student Research Prize (First Prize) of the Körber Foundation for diploma thesis on privatizing old age security

- 1998–2001 Scholarship of the **German Science Foundation (DFG)** for doctoral studies at the graduate programme “Environmental and Resource Economics” at University of Heidelberg and University of Mannheim
- 1998 Award for best diploma examination, **Wiso-Fakultätsbund Nuremberg**
- 1995–1998 Scholarship of the **Friedrich Naumann Foundation**

OTHER ACADEMIC ACTIVITIES

- since 2024 Chairman of the Board of Directors of the "Energy Systems of the Future" (ESYS) initiative of **acatech, Leopoldina and the Union of the German Academies of Sciences and Humanities**
- since 2023 Chair of the Scientific Advisory Board, **Institute of Energy Economics (EWI), University of Cologne**
- since 2023 Member of the Scientific Advisory Board, **Institute for Advanced Studies (HIS)**, Vienna
- since 2023 Founding Member of the World Society of Carbon Neutrality, **Tsinghua University and China Association for Science and Technology (CAST)**, P.R. China.
- since 2023 Member of the Board of Trustees, **Max Planck Institut für Kohlenforschung**, Mülheim an der Ruhr
- since 2023 Member of the Scientific Steering Committee “Future Transmission Lab”, **Amprion**
- since 2022 Member of the Advisory Board, **Consumer Association NRW**
- since 2021 Member of the Scientific Advisory & Project Board (SAPB), **50Hertz Transmission**
- since 2021 Member of Advisory Board, **EPICO - Energy and Climate Policy and Innovation Council e.V.**
- since 2021 Vice Chair of the Academic Committee, International School of Low Carbon Studies, **Shandong University of Finance and Economics**
- since 2020 Member of Scientific Advisory Board, **Institute of Energy Economics (EWI), University of Cologne**
- since 2019 Member of the Advisory Board, **Agora Energiewende**
- since 2019 Member of the Scientific Advisory Board, **Deutsches Institut für Wirtschaftsforschung (DIW)**
- since 2019 Member of the International Advisory Board, **Wuppertal Institut**
- since 2018 Member of the **German-Japanese Energy Transition Council (GJETC)** supported e.g. by Japan Ministry of Economy, Trade and Industry (METI), German Federal Foreign Office, Federal Ministry for Economic Affairs and Energy, Federal Environment Ministry
- since 2017 Member of the **Scientific Commission of the State of Lower Saxony**
- since 2013 Member of the Board of Trustees of the Academy Project "Energy systems of the future“, **German Academies of Sciences** (Leopoldina, Union, acatech)
- since 2013 Member of the Working Group for Ecological Affairs of the **German Bishops' Conference**
- 2018-2023 Lead author (Ch 6 Energy Systems) and Autor (Ch 13 National and sub-national policies & institutions), Working group III, 6th Assessment Report, **Intergovernmental Panel on Climate Change (IPCC)**
- 2021 Member of the Working Group “A systemic approach to the energy transition in Europe“, **Science Advice for Policy by European Academies**, informs the Scientific Opinion of the European Commission Group of Chief Scientific Advisors (<https://www.sapea.info/wp-content/uploads/energy-transition-report.pdf>)
- 2020 Member of the Working Group “Energy transition 2030: Europe's path to carbon neutrality“, German National Academy of Sciences **Leopoldina, acatech** and the Union of the German Academies
- 2020 Member of the advisory board, “Feasibility study on a German-Australian hydrogen supply chain based on renewable energies (HySupply)“, **acatech** - German Academy of Science and Engineering and the **Federation of German Industries (BDI)**
- 2014-2017 Member of the External Advisory Board of the **DFG Exzellency Cluster** “Integrated Climate System Analysis and Prediction" (CliSAP) at the Universität Hamburg
- 2014-2016 Lead Author, **Global Environment Outlook (GEO-6)** of the UN Environment Programme (UNEP) (Regional Assessment: Climate and Energy in Europe)
- 2012 Member of the **German delegation** at the **International Maritime Organisation** MEPC 64 meeting in London, UK
- 2010-2014 Lead author, Fifth assessment report, Working group III (Chapter 6 Assessing Transformation Pathways), **Intergovernmental Panel on Climate Change (IPCC)**
- 2007 Member of the **Delegation of the European Commission** at the **UNFCCC Climate Conference** in Bali, Indonesia, Presentation at climate change conferences at Poznan (2008), Barcelona (2009), Copenhagen (2009), Durban (2011), Warsaw (2013), Lima (2014)
- since 2006 Member of the **Standing Research Committee on Environmental and Resource Economics**, German Economic Association
- 2002-2009 Participation in studies on “Multi-Gas Mitigation and Climate Change” (EMF 21) (2002-2004), “Climate Change Scenarios: U.S. Domestic and International Policy Architectures” (EMF 22) (2004-2009) **Energy Modeling Forum** (EMF), Stanford University

RESPONSIBILITIES AT RUHR-UNIVERSITY BOCHUM (RUB) & UNIVERSITY OF MÜNSTER (WWU)

starting 2025	Director of the Executive MBA Programme “Energy Economics” (degree from Ruhr-University Bochum at the EUREF Campus in Düsseldorf), RUB
2022	Representative for Sustainability, Ruhr Universität Bochum
2022	Board of Directors, Institute for Mining and Energy Law, Ruhr Universität Bochum
2022	Board of Directors, Research Department: Closed Carbon Cycle Economy, Ruhr Universität Bochum
2021	Board Member, Center of Interdisciplinary Sustainability Research (ZIN), WWU
2019-2021	Principal Investigator, “Excellence Start-up Center.NRW”, WWU , commissioned by Ministry of Economics, Innovation, Digitisation and Energy of the State of North Rhine-Westphalia
2018-2021	Member of the Senate of the University of Münster
2016-2021	Speaker of the Section Economics , School of Business and Economics, University of Münster
2016-2021	Member of the Advisory Board MEET Batterieforschungszentrum (Münster Electrochemical Energy Technology) at the University of Münster
2016-2021	Director of the Zentralinstitut für Raumplanung (Central Institute for Spatial Planning), WWU
2019/2020	Chairman of the selection committee “Professor of Economics (W3 level) with a focus on microeconomics / industrial organization”, WWU
2019/2020	Chairman of the selection committee “Professor of Economics (W3 level) with a focus on economic cooperation research”, WWU
2016-2019	Chairman of the examination board of the Master's Program in Energy Economics (double degree from the University of Münster and RWTH Aachen at the Haus der Technik in Essen), WWU
2015-2019	Director of the dual degree Master Programme “Energy Economics”, RWTH Aachen/WWU

EXPERT REVIEWS, EVALUATION COMMITTEES AND JURY PARTICIPATION

2019, 2023	Scientific Expert, Hearings of the State Parliament of North Rhine-Westphalia , Committee on homeland and community issues “Solar photovoltaics and municipal building codes“ (2023), Committee on Europe and International Affairs, " European Climate Policy: Giving CO ₂ a prize" (2019)
2014-19, 2022	Scientific Expert, Hearings of the German Parliament , Committee on the Economy, Energy and Climate, “Legislative proposal on price breaks for gas and heat” (2022), Committee on Economics and Energy, annual briefing on "Status of the Energy Transformation" (2014-2019), Committee on Financial Issues, briefing on "Energy and Electricity Tax Reform" (2017)
2020	Member of the Evaluation Committee of the German Science Council (Wissenschaftsrat) for the evaluation of the Institute for Advances Sustainability Studies (IASS), Potsdam
2018	Scientific Expert, German Governments's committee on “Growth, Structural Change and Employment” (Coal Exit Commission), briefing on "Impacts of a coal phase out”
2013	Member of the Evaluation Committee of the DFG Priority Program „Climate Engineering“ for the German Science Foundation (DFG)
2011	Member of the Evaluation Committee of the German Science Council (Wissenschaftsrat) for the evaluation of the Wuppertal Institute
2008	Scientific Expert, European Parliament's committee on Industry, research and energy, briefing on "RES Trading as an Option" for the EU directive on renewable energy
2008	Member of the Evaluation Committee of the Wegener Center for Climate and Global Change , Graz University
2005-2007	Expert reviewer for 4th Assessment Report (AR4), Working Group II (Impacts, Adaptation and Vulnerability) and Working Group III (Mitigation), IPCC

TEN REPRESENTATIVE JOURNAL ARTICLES

- Can self-set goals encourage resource conservation? Field experimental evidence from a smartphone app (with M. Rodemeier and M. Werthschulte), **European Economic Review**, 160, 104612, 2023.
- A multi-country meta-analysis on the role of behavioral change in reducing energy consumption and CO₂ emissions in residential buildings (with T. Khanna, and eleven co-authors), **Nature Energy**, 6, 925–932, 2021.
- On the role of present bias and biased price beliefs in household energy consumption (with M. Werthschulte), **Journal of Environmental Economics and Management (JEEM)**, 109, 102500, 2021.
- The Impacts of the EU ETS on Efficiency - An Empirical Analyses for German Manufacturing Firms (with B. Lutz and S. Managi), **Resource and Energy Economics**, 56, 71-95, 2019.
- On the Effects of Unilateral Environmental Policy on Offshoring in Multi-Stage Production Processes (with O. Schenker and S. Koesler), **Canadian Journal of Economics**, 51(4), 2018.
- The long-term impact of matching and rebate subsidies when public goods are impure: Field experimental evidence from the carbon offsetting market (with M. Kesternich & D. Römer), **Journal of Public Economics**, 137, 70-78, 2016.
- The Demand for Climate Protection - Empirical Evidence from Germany (with B. Sturm and C. Vogt), **Economics Letters**, 118(3), 415–418, 2013.
- Inequality, communication, and the avoidance of disastrous climate change in a public goods game (with A. Tavoni, A. Dannenberg and G. Kallis), **Proceedings of the National Academy of Sciences (PNAS)**, 108(29), 11825-11829, 2011.
- On the Self-interested Use of Equity in International Climate Negotiations (with A. Lange, C. Vogt and A. Ziegler), **European Economic Review**, 54(3), 359-375, 2010.
- Decomposing Integrated Assessment of Climate Change: Methodology and Sample Application (with C. Böhringer and T. F. Rutherford), **Journal of Economic Dynamics and Control**, 31(2), 683-702, 2007

SELECTED POLICY DOCUMENTS

- Statement of the Expert Commission “Energy of the Future” on “Electricity market design and its further development”, scoping paper for the consultation on climate neutral electricity system (Plattform Klimaneutrales Stromsystem) of the German Government, 2023
- Publication of Sixth Assessment Report, Working group III (Chapter 6 Energy Systems), Intergovernmental Panel on Climate Change (IPCC) (lead author), 2022
- Statement of the Expert Commission “Energy of the Future” on the Monitoring of the Energy Transition for the German Government, 2012, 2014, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021
- Publication of the Working Group “A systemic approach to the energy transition in Europe”, Science Advice for Policy by European Academies, informs the Scientific Opinion of the European Commission Group of Chief Scientific Advisors, 2021 (<https://www.sapea.info/wp-content/uploads/energy-transition-report.pdf>)
- Publication of the Working Group “Energy transition 2030: Europe's path to carbon neutrality”, German National Academy of Sciences Leopoldina, acatech and the Union of the German Academies, 2020
- Coordination of G20 Insights Policy Brief “Establishing an expert advisory commission to assist the G20's energy transformation processes” (https://www.g20-insights.org/policy_briefs/establishing-expert-advisory-commission-assist-g20s-energy-transformation-processes/) with authors from German Expert Commission on the Monitoring Process “Energy of the future”, UK Committee on Climate Change, Australian Academy of Technology and Engineering, acatech – German National Academy of Science and Engineering, Chinese Academy of Engineering, World Energy Council, France, India, Japan, 2017.
- Publication of the Regional Assessment: Climate and Energy in Europe, Global Environment Outlook (GEO-6) of the UN Environment Programme (UNEP) (Lead Author), 2016
- Publication of the Fifth Assessment Report, Working group III (Chapter 6 Assessing Transformation Pathways), Intergovernmental Panel on Climate Change (IPCC) (Lead author), 2014.
- Issue Note (with Peter Heindl) for the Green Growth and Sustainable Development Forum of the OECD on Energy sector reform and its impact on households”, November 2014
- Communications from the Commission "Analysis of options to move beyond 20% greenhouse gas emission reductions and assessing the risk of carbon leakage" {COM(2010)260} and the “Background information and analysis” {COM(2010)265 final}; information and analysis provided by me have been extensively used and recognised
- Submission of Germany to the "Marine Environmental Protection Committee" (MEPC) of the International Maritime Organisation (IMO) on "Possible uses of revenues generated by an Emissions Trading System" (MEPC 62/5/15) is based on a study directed by me at ZEW
- European Parliament's committee on Industry, research and energy, Briefing papers on „Opportunities for renewable energy development in Europe”, briefing on "RES Trading as an Option", IP/A/ITRE/WS/2008-02
- Impact Assessment accompanying the „Package of Implementation measures for the EU's objectives on climate change and renewable energy for 2020” of the European Commission {SEC(2008)85/3}; information and analysis provided by me have been extensively used and recognised

Communications from the Commission "Biofuels Progress Report" COM(2006)845 and "Renewable Energy Road Map" COM(2006)848 and the accompanying Impact Assessments {SEC(2006) 1721} {SEC(2006) 1720}; information and analysis provided by me have been extensively used and recognised

Schwetzingen, February 2024