

ANDREAS LÖSCHEL



CURRICULUM VITAE

PERSONAL DATA

Date/Place of Birth: 7. September 1971, Rothenburg ob der Tauber

Marital status: married w Claudia Löschel, children: Tilman (1999), Benno (2001), Ida (2004), Martha (2009)

Address: Am Stadtgraben 9, D-48143 Münster, Tel.: ++49 176 - 183 00202, loeschel@uni-muenster.de

CURRENT POSITIONS

- since 2014 Professor of Economics (W3), esp. Energy & Resource Economics and Director of the Centre of Applied Economic Research Münster (CAWM), **University of Münster**
- since 2011 Chairman of the German Government's **Expert Commission to Monitor the Energy Transition**
- since 2017 Head of the Virtual Institut **Smart Energy North Rhine-Westphalia**

RESEARCH INTERESTS

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

ACADEMIC IMPACT

Google Scholar: 4859 citations, h-Index = 35 (23.12.2018)

Scopus: 79 papers, 1658 citations, h-Index = 24 (23.12.2018)

Web of Science: 59 papers, 1179 citations, h-Index = 20 (5.7.2018)

PROFESSIONAL EXPERIENCE

- since 2018 Visiting Chair Professor, **University of International Business and Economics (UIBE)**, Beijing
- since 2018 Advisor to **Fraunhofer Center for Economics of Materials**, Halle, Germany
- since 2017 Co-Director, **Australia-Germany Energy Transition Research Hub**
- since 2015 Advisor to **Aurora Energy Research** Limited, Oxford, UK
- 2015-2019 Academic Head of the dual degree **Master Programme "Energy Economics"**, RWTH Aachen and University of Münster
- 2013-2018 Visiting Professor, **University of International Business and Economics (UIBE)**, Beijing
- 2015-2017 Excellency Professor of the **State Council, PR China** (High-End Foreign Expert of the State Administration of Foreign Experts Affairs SAFEA)
- 11/2010-6/2014 Professor of Economics (W3), esp. Environmental & Resource Economics, **University of Heidelberg**
- 8/2007-6/2014 Head of the Research Department "Environmental and Resource Economics, Environmental Management" at **Centre for European Economic Research (ZEW)** (~ 22 full time researcher)
- 10/2005-7/2007 Scientific Officer, **European Commission**, DG Joint Research Centre, Institute for Prospective Technological Studies (IPTS), Seville, Spain
- 12/1999-08/2005 Senior Researcher (since 2005 with tenure) at **ZEW**

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)
9/2003–12/2003	Studies in the “Program on Negotiation” at Massachusetts Institute of Technology (MIT) and Fletcher School of Diplomacy, Tufts University , Cambridge (Mass.), USA
11/1992–10/1998	Diploma in Economics (Diplom-Volkswirt), University of Erlangen-Nuremberg , Germany
9/1994–5/1995	M.A., Economics, Wayne State University , Detroit, USA
8/1993–9/1993	Studies in Economics, University of California, Los Angeles (UCLA), USA

RESEARCH VISITS AND AFFILIATIONS

since 2019	Research Associate, Institute of Economics, University of Barcelona
4/2017-7/2017	Oxford Martin Visiting Fellow, Oxford University
since 2016	CESifo Research Network Fellow, CESifo , Munich
since 2014	Research Associate, ZEW , Mannheim
since 2010	Research Associate, CCEP, Australian National University (ANU) , Canberra, Australia
4/2013	Senior Visiting Scholar, Tsinghua University , Beijing, China
9/2015, 10/2011	Visiting Researcher, Crawford School of Economics & Government, Australian National University (ANU) , Canberra, Australia
10–11/2010	Economist Visitors Programme, European Commission (DG Enterprise & Industry)
09/2010	Visiting Professor in Economics, University Pablo de Olavide , Seville, Spain
9/2006–8/2007	Visiting Scholar, Department of Economics, Stanford University , Stanford, CA, USA
5/2005–7/2005	Visiting Scholar, Joint Program on the Science and Policy of Global Change, Massachusetts Institute of Technology (MIT) , Cambridge (Mass.), USA
5/2004	Visiting Scholar, Joint Program on the Science and Policy of Global Change, Massachusetts Institute of Technology (MIT) , Cambridge (Mass.), USA
8–12/2003	Visiting Scholar, Joint Program on the Science and Policy of Global Change, Massachusetts Institute of Technology (MIT) , Cambridge (Mass.), USA

AWARDS AND HONOURS

since 2016	Elected Member of the National Academy of Science and Engineering (acatech)
2013, 2014, 2017	Among the 50 most influential economists in Germany in the Ranking of Economists of the Frankfurter Allgemeine Zeitung (F.A.Z.)
2017	Handelsblatt ranking of German speaking economists Top-100 Economists (current research)
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 for doctoral studies at the University of Heidelberg and the University of Mannheim
1998	Award for best diploma examination, Wiso-Fakultätsbund Nuremberg
1995–1998	Scholarship of the Friedrich Naumann Foundation

OTHER ACADEMIC ACTIVITIES

since 2018	Member of the German-Japanese Energy Transition Council (GJETC)
since 2018	Member of the Senate of the University of Münster
since 2018	Co-Editor of the Journal " Resource and Energy Economics "
since 2018	Lead author, Sixth assessment report, Working group III (Chapter 6 Energy Systems), Intergovernmental Panel on Climate Change (IPCC)
since 2017	Member of the Scientific Commission of the State of Lower Saxony
since 2017	Member of the Editorial Board of the Journal " The Energy Journal "
since 2017	Energy Industry program Charter Fellow, RUDN University Moscow
since 2016	Member of the Editorial Board of the Journal " Climate Policy "
since 2016	Speaker of the Section Economics, School of Business and Economics, University of Münster
since 2016	Member of the Advisory Board MEET Batterieforschungszentrum (Münster Electrochemical Energy Technology) at the University of Münster
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
2014-2016	Member of the External Advisory Board of the DFG Exzellenz 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)
2010-2014	Lead author, Fifth assessment report, Working group III (Chapter 6 Assessing Transformation Pathways), Intergovernmental Panel on Climate Change (IPCC)
2012	Member of the German delegation at the International Maritime Organisation MEPC 64 meeting in London, UK
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

EXPERT REVIEWS, EVALUATION COMMITTEES AND JURY PARTICIPATION

2014 - 2018	Scientific Expert, German Parliament's committee on Economics and Energy, annual briefing on "Status of the Energy Transformation"
2018	Scientific Expert, German Governments's committee on "Growth, Structural Change and Employment" (Coal Exit Commission), briefing on "Impacts of a coal phase out"
2017	Scientific Expert, German Parliament's committee on Finance, briefing on "Energy and Electricity Tax Reform"
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

German Science Foundation (DFG) (2011, 2012, 2016, 2017), **German Academic Exchange Service (DAAD)** (2017), Reviewer for the **German National Merit Foundation** (2016, 2018), **Austrian Academy of Sciences** (2016), **Centre for Energy and Climate Protection of the State of Schleswig-Holstein** (2013-2016), **Swiss National Science Foundation** (2014), **Mercator Foundation** (2013, 2018), **Fritz-Thyssen-Stiftung** (2013), **German Federal Environmental Foundation** (2012), **Alexander von Humboldt-Foundation** (since 2011), **Research Council K.U. Leuven** (2011), **Research Foundation Flanders (FWO)** (2011), **Research Council of Norway** (2007, 2008, 2010, 2011), **Austrian Climate and Energy Fund** (2010, 2011), **Federal Ministry of Education and Research (BMBF)** (2010), **Finish Academy of Sciences** (2008), **Economic & Social Research Council (ESRC)** (2007), **European Commission (FP6, 2003, 2004)**

EDITORSHIPS OF JOURNAL SPECIAL ISSUES

1. Energy Demand in Emerging and Developing Economies: Measurement, Policy Interventions and Evaluation, Editor of the Special Issue of **China Economic Review** (with C. Wei, S. Managi), ongoing.
2. Emissions trading systems for global low carbon energy and economic transformation, Editor of the Special Issue of **Applied Energy** (with X. Zhang, J. Lewis, D. Zhang), ongoing.
3. Recent Advances in the Economic Analysis of Energy Demand – Insights for Industries and Households, Editor of the Special Issue of **Resource and Energy Economics** (with Shunsuke Managi) (ongoing)
4. Frontiers in the Economics of Energy, Editor of the Special Issue of **Energy Economics** (with C. de Miguel, M. Filippini and X. Labandeira), 68, Supplement 1, 2017.
5. Frontiers in the Economics of Energy Efficiency, Editor of the Special Issue of **Energy Economics** (with C. de Miguel and X. Labandeira) 52 (Supplement 1), 2015.
6. The rise of emissions trading in Asia, Editor of the Special Issue of **Energy Policy** (with F. Jotzo) 75, 2014.
7. New Directions in the Voluntary Provision of Public Goods, Editor of the Special Issue of **Economica** (with D. Rübbelke), 81(322), 2014.
8. Energy Security - Concepts and Indicators, Editor of the Special Issue of **Energy Policy** (with U. Moslener and D. Rübbelke), 38(4), 2010.

ARTICLES IN JOURNALS OF THE SOCIAL SCIENCES CITATION INDEX (SSCI)

9. The Impact of a Feed-In Tariff on Wind Power Development in Germany (with C. Hitaj), **Resource and Energy Economics** (forthcoming).
10. The Impacts of the EU ETS on Efficiency - An Empirical Analyses for German Manufacturing Firms (with B. Lutz und S. Managi), **Resource and Energy Economics** (forthcoming).
11. Research trends in environmental and resource economics: Insights from four decades of JEEM (with R. Kube, H. Mertens und T. Requate), **Journal of Environmental Economics and Management**, 92, 433-464, 2018.
12. Reducing CO₂ from Cars in the European Union (with S. Paltsev, Y.-H. Chen, V. Karplus, P. Kishimoto, J. Reilly, K. von Graevenitz and S. Koesler), **Transportation**, 45(2), 573-595, 2018.
13. China's emissions trading takes steps toward big ambitions (with F. Jotzo, V. Karplus, M. Grubb, K. Neuhoff, L. Wu, F. Teng), **Nature Climate Change**, 8(4), 265-267, 2018.
14. 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.
15. Establishing an expert advisory commission to assist the G20's energy transformation processes (with P. Großkurth et al.), **Economics E-Journal**, 12, 1–12, 2018.
16. Define limits for temperature overshoot targets (with O. Geden), **Nature Geoscience**, 10, 881-882, 2017.
17. The Effect of Globalisation on Energy Footprints: Disentangling the Links of Global Value Chains (with O. Kaltenecker and F. Pothen), **Energy Economics**, 68(S1), 148-168, 2017.
18. Informing the Transitions towards Low-carbon Societies – Editorial, **Energy Economics** (with C. de Miguel, M. Filippini and X. Labandeira), 68 (Suppl. 1), 1-3, 2017.
19. Casting Light on Energy Efficiency – Evidence on Consumer Inattention and Imperfect Information (mit M. Rodemeier und R. Kube), **Applied Economics Letters**, 24(21), 1575–1587, 2017.
20. Improving Voluntary Public Good Provision through a Non-Governmental, Endogenous Matching Mechanism: Experimental Evidence" (with C. Reif and D. Rübbelke), **Environmental and Resource Economics**, 67, 559–589, 2017.
21. Revealed preferences for voluntary climate change mitigation when the purely individual perspective is relaxed – evidence from a framed field experiment (with B. Sturm and R. Uehleke), **Journal of Behavioral and Experimental Economics**, 67, 149-160, 2017.
22. Energy Costs in Germany and Europe: An Assessment Based on a (Total Real Unit) Energy Cost Accounting Framework (with O. Kaltenecker, M. Baikowski and J. Lingens), **Energy Policy**, 104, 419-430, 2017.
23. The long-term impact of matching and rebate subsidies when public goods are impure: Field experimental evidence from carbon offsetting market (with M. Kesternich and D. Römer), **Journal of Public Economics**, 137, 70-78, 2016.
24. Pro-Environmental Households and Energy Efficiency in Spain (with A. Ramos and X. Labandeira), **Environmental and Resource Economics**, 63, 367–393, 2016.
25. Peeling the onion: Analyzing aggregate, national and sectoral energy intensity in the European Union (with F. Pothen and M. Schymura), **Energy Economics** 52 (Suppl. 1), S63-S75, 2015.
26. Frontiers in the economics of energy efficiency (with C. de Miguel and X. Labandeira), **Energy Economics** 52 (Suppl. 1), S1-S4, 2015.
27. Do Chinese individuals believe in climate change and why? An econometric analysis (with J. Dai, M. Kesternich and A. Ziegler), **Ecological Economics** 116, 310-321, 2015.
28. Invention in Energy Technologies: Comparing Energy Efficiency and Renewable Energy Inventions at the Firm Level, (with S. Rexhäuser), **Energy Policy** 83, 206-217, 2015.

29. On the Provision of Public Goods with Probabilistic and Ambiguous Thresholds (with A. Dannenberg, G. Paolacci, C. Reif and A. Tavoni), **Environmental and Resource Economics**, 61(3), 365-383, 2015.
30. Energy-saving and emission-abatement potential of Chinese coal-fired power enterprise: a non-parametric analysis (with C. Wei and B. Liu), *Energy Economics*, **Energy Economics** 49, 33–43, 2015
31. Emissions trading in China: emerging experiences & international lessons (with F. Jotzo), **Energy Policy**, 2014.
32. Designing an EU Energy and Climate Policy Portfolio for 2030: Implications of Overlapping Regulation under Different Levels of Electricity Demand (with F. Flues, B. Lutz und O. Schenker), **Energy Policy** 75, 91-99, 2014
33. Designing an Emissions Trading Scheme for China - An Up-to-date Climate Policy Assessment (with M. Hübler and S. Voigt), **Energy Policy** 75, 57-72, 2014.
34. The voluntary provision of international public goods – an overview (with D. Rübbelke), **Economica**, 81(322), 195-204, 2014.
35. The New IPCC Scenarios: What Does the Two-Degree Target Cost? - Die neuen Szenarien des IPCC: Was kostet das Zwei-Grad-Ziel?, **GAIA** 23/2, 73, 2014.
36. Incidence and Extent of Co-Authorship in Environmental and Resource Economics: Evidence from the Journal of Environmental Economics and Management (with M. Schymura), **Scientometrics**, 99, 631-661, 2014.
37. Did Fukushima Matter? Empirical Evidence of the Demand for Climate Protection in Germany (with C. Gallier and B. Sturm), **Applied Economics Letters**, 21(12), 846-851, 2014.
38. An empirical analysis of the CO₂ shadow price in Chinese thermal power enterprises (with C. Wei and B. Liu), **Energy Economics**, 40, 22-31, 2013.
39. The Demand for Climate Protection - Empirical Evidence from Germany (with B. Sturm und C. Vogt), **Economics Letters**, 415–418, 2013.
40. The EU decarbonisation roadmap 2050: What way to walk? (with M. Hübler), **Energy Policy**, 55, 190–207, 2013.
41. A new robustness analysis for climate policy evaluations: A CGE Application for the EU 2020 Targets (with C. Hermeling und T. Mennel), **Energy Policy**, 55, 27-35, 2013.
42. The Value-Added of Sectoral Disaggregation: Implications on Competitive Consequences of Climate Change Policies (with V. Alexeeva, C. Böhringer und Sebastian Voigt), **Energy Economics**, S127-S142, 2012.
43. Inequality, Communication and the Avoidance of Disastrous Climate Change (with A. Tavoni, A. Dannenberg and G. Kallis), **Proceedings of the National Academy of Sciences (PNAS)**, 108(29), 11825-11829, 2011.
44. On the Self-interested Use of Equity in International Climate Negotiations (with Andreas Lange, Carsten Vogt and Andreas Ziegler), **European Economic Review**, 54(3), 359-375, 2010
45. Auctioning of CO₂ Emission Allowances in Phase 3 of the EU Emissions Trading Scheme (with E. Benz and B. Sturm), **Climate Policy**, 10 (2010), 705–718.
46. Paying the Piper and Calling the Tune? A Meta-Regression Analysis of the Double-Dividend Hypothesis (with N. Anger und C. Böhringer), **Ecological Economics**, 69(7), 1495-1502, 2010.
47. Indicators of Energy Security in Industrialised Countries (with U. Moslener and D. Rübbelke), **Energy Policy**, 38(4), 1665-1671, 2010.
48. Energy security—concepts and indicators - Editorial (with U. Moslener and D. Rübbelke), **Energy Policy**, 38(4), 1607-1608, 2010.
49. EU Climate Policy Up to 2020: An Economic Impact Assessment (with C. Böhringer, U. Moslener and T. F. Rutherford), **Energy Economics**, 31(S2), 295-305, 2009.
50. Oil and Unemployment in Germany (with U. Oberndorfer), **Jahrbücher für Nationalökonomie und Statistik**, 229(2+3), 146-162, 2009.
51. Technological Uncertainty and Cost-Effectiveness of CO₂ Emission Reduction (with V. Otto), **Energy Economics**, SUPPL 1, 4-17, 2009.
52. A Symmetric Input-Output Table for EU 27: Latest Progress (with J. Rueda-Cantuche, J. Beutel, F. Neuwahl and I. Mongelli), **Economic Systems Research**, 21(1), 59-79, 2009.
53. Environmental Taxation and Induced Structural Change in an Open Economy: The Role of Market Structure (with C. Böhringer and H. Welsch), **German Economic Review**, 9(1), 17-40, 2008.
54. Employment impacts of EU biofuels policy: combining BU technology information and sectoral market simulations in an IO framework (with F. Neuwahl, I. Mongelli, L. Delgado), **Ecological Economics**, 447-460, 2008.
55. Directed technical change and differentiation of climate policy (with V.M. Otto and J. Reilly), **Energy Economics**, 30 (6), 2855-2878, 2008.
56. Extending Working Hours: Why not work 42 Hours rather than 38? – A CGE Analysis for Germany (with K. Conrad and H. Koschel), **Empirica**, 35, 255-266, 2008.
57. Climate Policy Induced Investments in Developing Countries: The Implications of Investment Risks (with C. Böhringer), **The World Economy**, 31(3), 367-392, 2008.
58. Energy Biased Technical Change - A CGE Analysis (with V. Otto and R. Dellink), **Resource and Energy Economics**, 29(2), 137-158, 2007.
59. 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.

60. Promoting Renewable Energy in Europe – A Hybrid CGE Approach (with C. Böhringer), **The Energy Journal**, Hybrid Modelling of Energy-Environment Policies: Reconciling Bottom-up and Top-down, 123 – 138, 2006.
61. Computable General Equilibrium Models for Sustainability Impact Assessment: Status Quo and Prospects (with C. Böhringer), **Ecological Economics**, 60(1), 49-64, 2006.
62. Efficiency Gains from “What”-Flexibility in Climate Policy - An Integrated CGE Assessment (with C. Böhringer and T. F. Rutherford), **The Energy Journal**, Multi-Greenhouse Gas Mitigation and Climate Policy, 405-424, 2006.
63. Recycling of Eco-Taxes, Labor Market Effects and the True Cost of Labor- A CGE Analysis (with K. Conrad), **Journal of Applied Economics**, 8(2), 259-278, 2005.
64. Climate Policy Beyond Kyoto: Quo Vadis? A Computable General Equilibrium Analysis based on Expert Judgements (with C. Böhringer), **Kyklos**, 58(4), 467-493, 2005.
65. Assessing Emission Allocation in Europe: An Interactive Simulation Approach (with C. Böhringer, T. Hoffmann, A. Lange and U. Moslener), **The Energy Journal**, 26(4), 1-22, 2005.
66. Market Power and Hot Air in International Emission Trading: The Impacts of U.S. Withdrawal from the Kyoto Protocol (with C. Böhringer), **Applied Economics**, 35(6), 651-664, 2003.
67. Carbon Taxes and Joint Implementation - An Applied General Equilibrium Analysis for Germany and India (with C. Böhringer and K. Conrad), **Environmental and Resource Economics**, 24(1), 49-76, 2003.
68. Technological Change in Economic Models of Environmental Policy: A Survey, **Ecological Economics**, 43(2-3), 105-126, 2002.
69. The Economic and Environmental Implications of the US Repudiation of the Kyoto Protocol and the Subsequent Deals in Bonn and Marrakech (with Z.X. Zhang), **Review of World Economics**, 138(4), 711-746, 2002.

Münster, January 2019