

CURRICULUM VITAE

Prof. Dr. Claudia Kemfert

Prof. Dr. Claudia Kemfert has been Professor of Energy Economics and Sustainability at the private University, Hertie School of Governance, in Berlin since 2009 and Head of the department Energy, Transportation, Environment at the German Institute of Economic Research (DIW Berlin) since April 2004. Her research activities concentrate on the evaluation of climate and energy policy strategies. From 2004 until 2009 she was Professor for environmental economics at Humboldt University Berlin. She got an award from DAAD and was honoured in 2006 as top German Scientist from the German research foundation, Helmholtz and Leibniz Association. In 2011 she was awarded with the Urania Medaille as well as B.A.U.M. Environmental Award for Best Science and got the German-Solar-Award and the Adam-Smith-Award for Market-Based Environmental Policy in 2016. She publishes her research results in high level scientific journals and acted as scientific representative for the research theme "Energy" on the "science year 2010" organised by the German Ministry of Science. She has recently published two highly recognised books to illustrate the economic impacts of climate change and energy policy. 2013 she published her book "Kampf für Strom" in which she describes the myths of the energy debate. In the same year followed the English version "The battle about electricity". Her latest book "Das fossile Imperium schlägt zurück" was published in April 2017.

In 2016 Claudia Kemfert was appointed by the Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety as a member of the German Advisory Council on the Environment. Claudia Kemfert advised EU president José Manuel Barroso in a "High level Group on Energy and Climate", and she acts as an external expert for the Intergovernmental Panel of Climate Change (IPCC). Claudia Kemfert was member of the High Level Expert Group of the EU Commissioner for Environment and Sustainability and of the Advisory Group on Energy of the European Commission (DG Research). Since 2011 she has been a member of the Club of Rome. She furthermore acts as jury member for several significant sustainability prizes. She was appointed by Norbert Röttgen (CDU) as shadow minister for Energy in North Rhine-Westphalia in 2012 and by Thorsten Schäfer-Gümbel (SPD) as energy expert in Hesse in 2013.

Claudia Kemfert studied economics at Oldenburg, Bielefeld (Germany) and Stanford University (USA). Claudia Kemfert worked for the Fondazione Eni Enrico Mattei (FEEM) (Italy) and Stuttgart University (Institute for Rational Energy Use). She gave lectures at the universities of St. Petersburg (2003/04), Moscow (2000/01) und Siena (1998, 2002/03). Claudia Kemfert was Associate Professor and headed a PhD research group at Oldenburg University. She was the first associate professor in Germany who got a tenured professor position. She is project manager of diverse research projects about environmental and energy policy strategies, and she is engaged in different networks like the Energy Modeling Forum (EMF) at Stanford University.

(www.claudiakemfert.de)

SELECTED RESEARCH PROJECTS

- 2016 **Netzausbaubedarfe im Lichte der Energiewende**, funded by Herman Scheer Stiftung
- 2015–2017 **Open Power System Data**, BMWi
- 2015–2016 **CO2-Limits**, funded by Bundestagsfraktion Bündnis90/Grüne
- 2015–2016 **Kraftwerkspark Deutschland II**, funded by European Climate Foundation (ECF)
- 2015–2016 **Kraftwerkspark Deutschland I**, funded by Heinrich-Böll-Fondation
- 2012–2016 **MASMIE – Modellgestützte Analysen für die Strommarktgestaltung zur Integration erneuerbarer Energien im Rahmen der Energiewende**, promoted by Mercator Foundation
- 2014–2015 **DEEP Decarbonisation Projekt** Länderstudie Deutschland zu Treibern und Barrieren der Energiewende, gefördert vom Deutschen Institut für Entwicklungspolitik (DIE) und des Bundesministeriums für Umwelt (BMU)
- 2012–2014 **RES Grid Integration – Regulated Expansion of Electricity Transmission Networks: the Effects of Fluctuating Demand and RES Generation**, promoted by the European Commission
- 2012–2014 **Biochar in Agriculture – Perspectives for Germany and Malaysia**, promoted by Leibniz Association (WGL)
- 2011–2013 **NAMAs Central Asia – Integrierter Ansatz zur Entwicklung klimafreundlicher Wirtschaften in Zentralasien**, promoted by the Federal Ministry for the Environment
- 2008–2011 **EMF Energy Modelling Forum** (EMF 21 Land Use, EMF 22 Climate Policy, EMF 23 Gas market, EMF 25 Energy Efficiency), Stanford University <http://emf.stanford.edu/>
- 2009 **Mitigation of methane emissions - a rapid and cost-effective response to climate change**, Copenhagen Consensus <http://fixtheclimate.com/>
- 2007–2010 **Strukturwandel im Agrarsektor – Eine unternehmens- und politikbezogenen Analyse** Research Group at Humboldt-University Berlin, promoted by The German Science Foundation DFG
- 2006–2009 **Mainstreaming von Klimarisiken und -chancen im Finanzsektor: Klimabezogene Chancen und Risiken mit Schwerpunkt Vermögensverwaltung** in cooperation with PIK Potsdam, University Potsdam, Germanwatch, Wuppertal Institut, promoted by The Federal Ministry of Education and Research
- 2006–2009 **ADAM - ADaption And Mitigation Strategies: Supporting European Climate Policy** promoted by the European Commission
- 2006–2007 **WIATEC - The development of a World Integrated Assessment model of Technology-Economy-Climate change for the investigation of the impact of induced technical and behavioural change on the environment** promoted by the European Commission
- 2005–2007 **Quantifizierung des Einflusses des Klimawandels auf die Trends der Häufigkeiten von Naturkatastrophen sowie deren volkswirtschaftliche und versicherte Schäden**, in cooperation with Munich Re
- 2004–2005 **Electricity Market Liberalization in Europe (EMELIE), Market Imperfections and their Impact on the European Economic and Environmental Situation** promoted by the European Commission
- 2002–2005 **Evaluation of the climatic change on the basis of coupled economical biosphere climatic models- ECOBICE**, financed by the Volkswagen Foundation

SELECTED PUBLICATIONS – REFEREED JOURNALS

- Kunz, F., Rosellón, J., Kemfert, C. (2017): Introduction of Nodal Pricing into the Mexican New Electricity Market through FTR Allocations. In: *Energy Journal* 38 (2017) ,
- Kemfert, C., Kunz, F., Rosellón, J. (2016): A Welfare Analysis of Electricity Transmission Planning in Germany. In: *Energy Policy* 94 (2016) , p. 446-452
- Schröder, A., Traber, T., Kemfert, C. (2013): Market Driven Power Plant Investment Perspectives in Europe: Climate Policy and Technology Scenarios until 2050 in the Model EMELIE-ESY. In: *Climate Change Economics*. 4 (2013) , 1 , 22 p.
- Haftendorn, C., Holz, F., Kemfert, C. (2012): What about Coal? Interactions between Climate Policies and the Global Steam Coal Market until 2030. In: *Energy Policy* 48 (2012), p. 274-283
- Haftendorn, C., Holz, F., Kemfert, C. (2012): What about Coal? Interactions between Climate Policies and the Global Steam Coal Market until 2030. In: *Energy Policy* 48 (2012), pp. 274-283
- Traber, T., Kemfert, C. (2011): Refunding ETS Proceeds to Spur the Diffusion of Renewable Energies: An Analysis Based on the Dynamic Oligopolistic Electricity Market Model EMELIE. In: *Utilities Policy* (2011), 1, pp. 33-41
- Schill, W.-P., Kemfert, C. (2011): Modeling Strategic Electricity Storage: The Case of Pumped Hydro Storage in Germany. In: *The Energy Journal* (2011) 3, pp. 59-87
- Traber, T., Kemfert, C. (2011): Gone with the Wind? Electricity Market Prices and Incentives to Invest in Thermal Power Plants under Increasing Wind Energy Supply. In: *Energy Economics [Elektronische Ressource]* (2011) 2 , pp. 249-256
- Sorda, G., Banse, M., Kemfert, C. (2010): An overview of biofuel policies across the world. In: *Energy Policy*. Vol. 38, Issue 11, pp. 6977-6988
- Kemfert, C., Schmidt, S., Höppe, P. (2010): The Impact of Socio-economics and Climate Change on Tropical Cyclone Losses in the USA. In: *Regional Environmental Change*, Volume 10, Issue 1 (2010), pp. 13-26.
- Siliverstovs, B., Otsch, R., Kemfert, C., Jaeger, C., Haas, A., Kremers, J. (2009): Climate Change and Modelling of Extreme Temperatures in Switzerland, In: *Applied Statistics*, [online first: 2009-06-14]
- Kemfert, C., Schneider, F. (2009): Der Emissionshandel in Deutschland und Österreich - ein wirksames Instrument des Klimaschutzes? In: *Perspektiven der Wirtschaftspolitik* 10 (2009), 1, pp. 92-122
- Kemfert, C., Schmidt, S., Höppe, P. (2009): Tropical Cyclone Losses in the USA and the Impact of Climate Change: A Trend Analysis Based on Data from a New Approach to Adjusting Storm Losses. In: *Environmental Impact Assessment Review* 29 (2009), pp. 359-369
- Kemfert, C., Traber, T. (2009): Impacts of the German Support for Renewable Energy on Electricity Prices, Emissions, and Firms. In: *The Energy Journal* 30 (2009), 3, pp. 155-178
- Kemfert, C., Holz, F., Hirschhausen, C. (2009): Perspectives of the European Natural Gas Markets Until 2025. In: *The Energy Journal*. Volume 30, Special Issue. pp. 137-150
- Kemfert, C., Holz, F., Hirschhausen, C. (2008): A Strategic Model of European Gas Supply. In : *Energy Economics*, Vol. 30/3, pp. 766-788
- Kemfert, C., Truong, P. T. (2008): A Flexible Global Warming Index for Use in an Integrated Approach to Climate Change Assessment In: *Environmental Modeling and Assessment* 13, Heft 4 ; pp. 503-515

- Kempf, C. (2008): Book Review: Markets and the Environment, Nathaniel O. Keohane and Sheila M. Olmstead, Washington, DC: Island Press. In: *Agricultural Economics* 38, 3, pp. 385-387
- Kempf, C. (2007): Versteigern statt Verschenken!: Warum es sinnvoll ist, eine vollständige versteigerung der Emissionsrechte anzustreben. In: *Zeitschrift für angewandte Umweltforschung* 18 (2007), 1, pp. 9-17
- Kempf, C. (2007): Ein Zehn-Punkte-Plan für eine nachhaltige Energiepolitik in Deutschland. In: *Gaia* 16, 1, pp. 16-21
- Kempf, C. (2007): The European Electricity and climate policy - complement or substitute? In: *Environment and Planning / C 25* (2007), 1, pp. 115-130
- Kempf, C., Müller, F. (Eds.) (2007): Die Energiepolitik zwischen Wettbewerbsfähigkeit, Versorgungssicherheit und Nachhaltigkeit - Chancen und Perspektiven für die Energieversorgung. *Vierteljahrshefte zur Wirtschaftsforschung* 76, 1
- Kempf, C., Truong, P.T., Brucker, T. (2006): Economic Impact Assessment of Climate Change: A Multi-Gas Investigation. In: *The Energy Journal, Multi-Greenhouse Gas Mitigation and Climate Policy, Special Issue* 3, pp. 441-460
- Edenhofer, O.; Lessmann, K.; Kempf, C.; Grubb, M.; Koehler, J. (2006): Induced technological change: exploring its implications for the Economics of Atmospheric stabilization. In: *The Energy Journal, Special issue* 2006, pp. 57-109
- Kempf, C. (2005): Der Strommarkt in Europa zwischen Liberalisierung und Klimaschutz-Herausforderungen für die zukünftige deutsche Energieversorgung. In: *Zeitschrift für Umweltpolitik und Umweltrecht*, 2/2005, pp. 243-258
- Kempf, C. (2005): Induced Technological Change in a Multi-Regional, Multi-Sectoral, Integrated Assessment Model (WIAGEM): Impact Assessment of Climate Policy Strategiepp. In: *Special Issue of Ecological Economics*, Vol. 54/2-3 pp. 293-305
- Kempf, C. (2004): International Climate Coalitions and trade - Assessment of cooperation incentives by issue linkage. In: *Energy Policy*, Vol. 32, Issp. 4, pp. 455-465
- Kempf, C. (2002): Global Economic Implications of alternative Climate Policy Strategiepp. In: *Environmental Science and Policy*, Vol. 5, Issp. 5, pp. 367-384.
- Kempf, C. (2002): An Integrated Assessment Model of Economy-Energy-Climate – The model WIAGEM-. In: *Integrated Assessment*, Vol. 3, 4, pp. 281-299
- Galeotti, M., Kempf, C. (2004): Interactions between climate and trade policies, a Survey. In: *Journal of World Trade*, Vol. 38, 4
- Haites, E., Yamim, F., Blanchard, O., Kempf, C. (2004): Implementing the Kyoto Protocol without Russia, *Climate Policy* 4, 2, pp. 143
- Kempf, C. (1998): Estimated substitution elasticities of a nested CES production function for Germany. In: *Energy Economics*, 20, pp. 249-264

PHD STUDENTS SUPERVISION

PhD Student	Subject	Finalised
Dröge, Susanne	Linkages between trade policy and environmental policy	08/2005 finalised
Schumacher, Katja	Evaluation of the electricity market in Europe	08/2007 finalised
Müller-Pelzer, Franziska	Evaluation of CDM options in South America	10/2008 finalised
Tichler, Robert	Optimal energy prices and implications of energy price modifications in the Upper Austrian economy	10/2008 finalised
Kalashnikov, Vitaly	Impact Assessment of the liberalised electricity market	01/2009 finalised
Holz, Franziska	Impact Assessment of the liberalised gas market	01/2009 finalised
Schmidt, Silvio	Economic assessment of extreme climate events (MunichRe)	05/2010 finalised
Braun, Frauke	Volkswirtschaftliche Effekte von erneuerbaren Energien- Bewertung anhand des ökonometrischen Modells Nigem	12/2010 finalised
Schill, Wolf-Peter	Erneuerbare Energien: Effekte für den Strommarkt und Mobilität	06/2011 finalised
Haftendorn, Clemens	Economics of the Global Steam Coal Market - Modeling Trade, Competition and Climate Policies	10/2012 finalised
Groba, Felix	Renewable Energies´ Dissemination and International Trade – An Empirical Assessment of Policy, Markets and Innovation	02/2013 finalised
Schröder, Andreas	Modeling Infrastructure Investments in Electricity Markets	02/2013 finalised
Huppmann, Daniel	Strategic behaviour in a carbon-constrained world -- Advances in complementarity modelling of energy markets	06/2014 finalised
Richter, Philipp Moritz	Trade and Climate Policies – Carbon Leakage in Energy and Goods Markets	10/2015 finalised
Teichmann, Isabel	Three Topics in Agriculture: Private Quality Standards, Marketing Channels, and Biochar	01/2016 finalised
Egerer, Jonas	Distributional effects and cooperation in the transformation of the German and European electricity sector	04/2016 finalised
Zerrahn, Alexander	Multi-Stage Models of Electricity Markets	04/2016 finalised
Mendelevitch, Roman	Modelling of Coal Markets and CCTS	10/2016 finalised

AWARDS

- 2016: Adam-Smith-Award for Market-Based Environmental Policy
 2016: German Solar Award
 2011: B.A.U.M. Environmental Award, category "science", for outstanding commitment in environment protection and sustainability
 2011: Urania-Medaille for her outstanding commitment to a scientifically based change of awareness of sustainable economy in our society
 2006: Elf der Wissenschaft, 11 Spitzenforscher ("dream team of german science") awarded by DFG, Helmholtz and Leibniz Association
 2003: Best Paper Award EABR Conference
 1998: Award by Verein für Socialpolitik for international presentations
 1997: Grant by DAAD for the PhD Programm of Stanford University

MEMBERSHIPS

- Verein für Socialpolitik
 Vereinigung Deutscher Wissenschaftler (VDW e.V.)
 European Association of Environmental and Resource Economists (EAERE)
 American Economic Association (AEA)
 International Association for Energy Economics (IAEE)
 Association of Environmental and Resource Economists (AERE)
 International Society for Ecological Economics
 Energy Modelling Forum (EMF)
 European Climate Forum (ECF)
 Umweltausschuss des Vereins für Socialpolitik
 International C3E Ambassador Corps

EXPERT COMMITTEES

- German Advisory Council on the Environment
 High Level Group of Energy and Climate of EU President Barroso (2006 until 2009)
 Expert group EU Commissioner (2012-2014)
 Club of Rome
 Advisory Board Energieforschung und Energietechnologien, Bavarian Ministry of Economic Affairs, Infrastructure, Transport and Technology (2012)
 Advisory Board of Federal academie of Security Policy
 Advisory Board of Energiecampus Nürnberg
 Scientific Board of WIFO (Austrian Institute for Economic Research)
 Scientific Board of the Energy Institute at Johannes Kepler University, Linz
 Scientific Board of EUREF Institute Berlin
 Scientific Board of Kulturwissenschaftliches Instituts Essen
 Scientific Board of NATIONAL GEOGRAPHIC GERMANY
 Scientific Board of Deutschen Biomasseforschungszentrum (DBFZ)
 Scientific Board of Energie-Forschungszentrum Niedersachsen (EFZN)
 Scientific Board of Zeitschrift für Neues Energierecht (ZNER)
 Advisory Group on Energy of EU Commission (DG Research) (2012-2014)
 Expert Group of the states Hessen (Schäfer-Gümbel) and Niedersachsen (Wenzel)
 Energy Commity party executive of SPD (2014)
 Board of Trustees of Technologiestiftung Berlin
 Board of Trustees of Deutsche KlimaStiftung
 Advisory Board of 100 Prozent erneuerbare stiftung

Advisory Board of forum Nachhaltig Wirtschaften
Advisory Board of Institut für Europäische Politik (IEP)
Advisory Board of B.A.U.M. Science
Advisory Board of Körber-Stiftung
Advisory Board of Deutsches Museum München
Frankfurter Zukunftsrat
Board of Trustees of Münchener Rück Stiftung
Advisory Board of CLEAN TECH WORLD
Advisory Board of Deutsche Umweltstiftung
Expert group about global issues, Federal Foreign Office (2012-2014)
Ambassador of the Science Year 2010 – The future of Energy, Federal Ministry of Education and Research
High Level Jury Sustainable Energy Europe Awards of EU Commission
Committee of Environment- and Ressource Economy, Society of Socialpolicy
Jury of: Deutscher Studienpreis, Berlin Science Award of the The Governing Mayor, German Sustainability Award, German Environmental Award, Environmental Award of Allianz, „Ökoglobe“ and „365 Places in the Land of Ideas“

REFEREE FOR

The Energy Journal
Energy Economics
Environment and Development Economics
Energy Policy
Climate Policy
Ecological Economics
Environmental and Resource Economics
Environmental Economics
Gaia
Economics of Energy and Environmental Policy

EDITOR

Applied Economics Quarterly
Gaia
Energy Efficiency
Latin American Economic Review (LAER)
Research Journal of Environmental
Advanced Sustainable Systems
ZNER Zeitschrift für Neues Energierecht

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