

Prof. Dr. Klaus Eisenack - Publications

Peer-reviewed Publications (until July 2014)

Eisenack, K. and A. Pechan (2014) The impact of heat waves on electricity spot markets, *Energy Economics*, DOI 10.1016/j.eneco.2014.02.006.

Eisenack, K. (2014) The inefficiency of private adaptation to pollution in the presence of endogenous market structure, *Environmental and Resource Economics* 57 (1), 81-99.

Oberlack, C. und K. Eisenack (2014) Alleviating barriers to urban climate change adaptation through international cooperation, *Global Environmental Change* 24, 349-362.

Reckien, D. and K. Eisenack (2013): Climate change gaming on board and screen: a review, *Simulation & Gaming*, Vol.44(2-3), 249-267.

Eisenack, K. and L. Kähler (2012): Unilateral emission reductions can lead to Pareto improvements when adaptation to damages is possible, *Environmental and Resource Economics*.

Eisenack, K., O. Edenhofer and M. Kalkuhl (2012): Resource rents: the effects of energy taxes and quantity instruments for climate protection, *Energy Policy* 48, 159-166.

Eisenack, K. (2012): A Climate Change Board Game for Interdisciplinary Communication and Education, *Simulation & Gaming*, Vol.44(2-3), 328-348.

Eisenack, K. (2012): Adaptation financing in a global agreement: is the adaptation levy appropriate?, *Climate Policy* 12, 491-504.

Eisenack, K., Stecker, R. (2012): [A Framework for Analyzing Climate Change Adaptations as Actions](#), *Mitigation and Adaptation Strategies for Global Change*, Vol. 17, No. 3, 243-260.

Eisenack, K., Stecker, R., Reckien, D., Hoffmann, E. (2012): [Adaptation to Climate Change in the Transport Sector: a Review of Actions and Actors](#), *Mitigation and Adaptation Strategies for Global Change*, Vol. 17, No. 5, 451-469.

Stecker, R., Mohns, T., Eisenack, K. (2012): *Anpassung an den Klimawandel - Agenda Setting und Politikintegration in Deutschland*. *Zeitschrift für Umweltpolitik und Umweltrecht* 2/2012, 179-208.

Leimbach, M., Eisenack, K. (2009): [A trade algorithm for multi-region models subject to spillover externalities](#), *Computational Economics* 33(2), 107-130.

Reckien, D., Eisenack, K. (2008): [Urban sprawl processes: using QuAG to sensitize stakeholders for the interdependencies between actors](#), *Simulation & Gaming*, DOI: 10.1177/1046878108321871.

Bloh, W. v., Bounama, C., Eisenack, K., Knopf, B., Walkenhorst, O. (2008): *Estimating the biogenic enhancement factor of weathering using an inverse viability method*, *Ecological Modelling* 216, 245-251.

Eisenack, K., Tekken, V., Kropp, J. (2007): [Stakeholder Perceptions of Climate Change in the Baltic Sea Region](#), Coastline Reports 8, 245-255.

Eisenack, K., Kropp, J., Welsch, H. (2006): [A Qualitative Dynamical Modelling Approach to Capital Accumulation in Unregulated Fisheries](#), Journal of Economic Dynamics and Control 30, 2613-2636.

Eisenack, K., Scheffran, J., Kropp, J. (2006): [Viability Analysis of Management Frameworks for Fisheries](#), Environmental Modelling and Assessment 11, 69-79.

Eisenack, K. (2003): [Qualitative viability analysis of a Bio-Socio-Economic System](#), in P. Salles and B. Bredeweg (ed.): Working Papers of 17th Workshop on Qualitative Reasoning, 63-70. Brasilia.

Eisenack, K., Petschel-Held, G. (2002): [Graph Theoretical Analysis of Qualitative Models in Sustainability Science](#), in N. Agell und J. A. Ortega (ed.): Working Papers of 16th Workshop on Qualitative Reasoning, 53-60. Edición Digial@tres, Sevilla.

Welsch, H., Eisenack, K. (2002): *Energy Costs, Endogenous Innovation and Long-run Growth*, Jahrbücher für Nationalökonomie und Statistik 222(4), 490-499.

Eisenack, K., Kropp, J. (2001): *Assessment of management options in marine fisheries by qualitative modelling techniques*, Marine Pollution Bulletin 43(7-12), 215-224.

Kropp, J., Eisenack, K. (2001): *Qualitative Modeling and Simulation of a Coupled Bioeconomic System*, in G. Biswas (ed.): Working Papers of 15th Workshop on Qualitative Reasoning, 182-187. University of Texas, San Antonio.

Editorships

Siebenhüner, B., M. Arnold, K. Eisenack and K. Jacob (2013): *Long-Term Governance of Social-Ecological Change*, Routledge, in press.

Eisenack, K. and D. Reckien (2013): *Games and Climate Change*, special issue of Simulation & Gaming, in press.

Book Chapters

Siebenhüner, B., M. Arnold, K. Eisenack, K. Jacob (2013): *Long-Term Policies: Setting the Scene*, in: B. Siebenhuener, M. Arnold, K. Eisenack and K. Jacob (Hrg.) Long-Term Governance of Social-Ecological Change, Routledge, in press.

Eisenack, K. (2012): *Archetypes of adaptation to climate change*, in M. Glaser, G. Krause, B. Ratter and M. Welp (Hg.) Human/Nature Interactions in the Anthropocene: Potentials of Social-Ecological Systems Analysis, Routledge, 107-122.

Pechan, A., M. Rotter and K. Eisenack (2011): *Anpassung in der Versorgungswirtschaft. Empirische Befunde und Einflussfaktoren*, in. A. Karczmarzyk and R. Pfriem (Hg.) Klimaanpassungsstrategien von Unternehmen, Metropolis, 313-336.

Eisenack, K. (2010): *Die ökonomische Rahmung der Adaptation an den Klimawandel*, in M. Voss (ed.): *Der Klimawandel - Sozialwissenschaftliche Perspektiven*, 155-170. VS-Verlag für Sozialwissenschaften, Wiesbaden.

Eisenack, K. (2009): *Archetypes of adaptation to climate change*, in M. Glaser, G. Krause, B. Ratter and M. Welp (ed.): *Human/Nature Interactions in the Anthropocene: Potentials of Social-Ecological Systems Analysis*. Ökom Verlag, in press.

Kropp, J., Eisenack, K., Lüdeke, M. (2009): *Generating policy relevant knowledge: how and why?*, in J. Sheffield (ed.): *Systemic development: local solutions in a global environment*, 379-389. ISCE Publishing, Lichtfield Park.

Eisenack, K., Lüdeke, M., Petschel-Held, G., Scheffran, J., Kropp, J. (2007): [*Qualitative Modelling Techniques to Assess Patterns of Global Change*](#), in J. Scheffran and J. Kropp (ed.): *Advanced Methods for Decision Making and Risk Management in Sustainability Science*, 83-127. Nova Science Publishers, New York.

Kropp, J., Eisenack, K., Scheffran, J. (2006): [*Marine Overexploitation: A Syndrome of Global Change*](#), in S. Sonak (ed.): *Multiple Dimensions of Global Change*, 257-284. TERI Press, New Delhi.

Kropp, J., Eisenack, K., Scheffran, J. (2004): *Sustainable Marine Resource Management: Lessons from Viability Analysis*, in A. E. Rizzoli and A. J. Jakeman (ed.): *Integrated Assessment and Decision Support, Proceedings of the First Biennial Meeting of the International Environmental Modelling and Software Society*, Vol 1, 104-109.

Eisenack, K., Moldenhauer, O., Reusswig, F. (2002): *Möglichkeiten und Grenzen qualitativer und semiquantitativer Modellierung von Natur-Gesellschafts-Interaktionen*, in I. Balzer and M. Wächter (ed.): *Sozial-Ökologische Forschung*, 377-389. ökom Verlag, München.

Kropp, J., Zickfeld, K., Eisenack, K. (2002): *Assessment and Management of Critical Events: The Breakdown of Marine Fisheries and the North Atlantic Thermohaline Circulation*, in A. Bunde, J. Kropp and H.J. Schellnhuber (ed.): *The Science of Disasters*, 192-216. Springer, Berlin.

Working Papers

Hagen, A., Eisenack, K. (2015): *International Environmental Agreements with Asymmetric Countries: Climate Clubs vs. Global Cooperation*, Nota di Lavoro 58.2015, Milan, Italy: Fondazione Eni Enrico Mattei.

Eisenack, K. and L. Kähler (2012): *Unilateral emission reductions can lead to Pareto improvements when adaptation to damages is possible*, Wirtschaftswissenschaftliche Diskussionspapiere V – 344 – 12, Universität Oldenburg.

Oberlack, C. and K. Eisenack (2012): *Overcoming barriers to urban adaptation through international cooperation? Modes and design properties under the UNFCCC*, CEN Paper 03-2012, Constitutional Economics Working Paper Series, Universität Freiburg.

Eisenack, K., O. Edenhofer and M. Kalkuhl (2010): *Energy taxes, resource taxes and quantity rationing for climate protection*, PIK Report 120, Potsdam-Institut für Klimafolgenforschung.

Eisenack, K., Lüdeke, M., Kropp, J. (2006): *Construction of Archetypes as a Formal Method to Analyze Social-Ecological Systems*.

Other Publications

Eisenack, K. (2005): [Model Ensembles for Natural Resource Management](#), Dissertation, Free University Berlin.

Eisenack, K., Petschel-Held, G. (2004): *Keep Cool - Gambling with the Climate*, Brettspiel über Klimapolitik, Spieltrieb, Wiesbaden.

Eisenack, K. (2001): [Modellierung unter Unsicherheit: Qualitative Differentialgleichungen in der Bioökonomik](#), Diploma Thesis, University of Oldenburg.