

Curriculum Vitae – Dr. Friedrich Kunz

Personal Information

Dr. Friedrich Kunz
Mohrenstr. 58
10117 Berlin
Germany

(+49) 30/ 89789 495
fkunz@diw.de

Born on October 18, 1983 in Bad Saarow

September 29, 2014

Professional Experience

- Since 09/2012 Research Associate, Department Energy, Transportation, Environment, German Institute for Economic Research (DIW Berlin)
- 09/2009–08/2012 Research Associate, Chair for Energy Economics, Department of Business and Economics, TU Dresden
- 10/2008–04/2009 Internship, Strategy Department, RWE AG, Essen
- 12/2006–09/2008 Student Research Assistant, Chair for Energy Economics and Public Sector Management, TU Dresden
- 08/2003–06/2004 Civilian Service, nursing home 'Sächsische Schweiz', Pirna

Education

- 02/2013 PhD in Economics (Dr. rer. pol.) at TU Dresden, Thesis "Managing Congestion and Intermittent Renewable Generation in Liberalized Electricity Markets"
- 07/2009 Diploma in Industrial Engineering (Dipl.-Wi.-Ing.), TU Dresden
- 2004–2009 Diploma studies Industrial Engineering, TU Dresden
- 1998–2003 High School Landesschule Pforta, Schulpforta

Teaching

Lecture "Advanced Electricity Sector Modeling", EnerTrain PhD Autumn School 2013, TU and DIW Berlin.

Lecture "Introduction to Electricity Network Modeling", NTNU PhD Winter School 2011 and 2013.

Lecture "Risk Management in Energy Markets" (B.Sc. level), TU Dresden, Chair of Energy Economics, Summer Term 2010.

Teaching assistance in Master courses "Electricity Economics" and "Study Project on Energy Economics" (M.Sc. level), TU Dresden, Chair of Energy Economics, Winter Term 2009-2011.

Teaching assistance in PhD course "Transmission Expansion of Electricity and Natural Gas Networks: Theory and Numerical Simulations", TU Berlin, 10/2009.

Supervision of Bachelor, Master, and Diploma thesis, TU Dresden, Chair of Energy Economics, 2009-2012.

Publications in Peer-Reviewed Journals

Friedrich Kunz and Hannes Weigt (2014): Germany's Nuclear Phase Out - A Survey of the Impact since 2011 and Outlook to 2023. *Economics of Energy & Environmental Policy*, Vol. 3(2), pp. 13–27.

Jonas Egerer, Friedrich Kunz, and Christian von Hirschhausen (2013): Development Scenarios for the North and Baltic Seas Grid: A Welfare Economic Analysis. *Utilities Policy*, Vol. 27, pp. 123–134.

Friedrich Kunz (2013): Improving Congestion Management - How to Facilitate the Integration of Renewable Generation in Germany. *Energy Journal*, Vol. 34, pp. 55–78.

Karsten Neuhoff, Friedrich Kunz et al. (2013): Renewable Electric Energy Integration: Quantifying the Value of Design of Markets for International Transmission Capacity. *Energy Economics*, Vol. 40, pp. 760–772.

Other Publications

Karsten Neuhoff, Friedrich Kunz, Sophia Rüster, and Sebastian Schwenen (2014): Koordinierte Strategische Reserve kann Stromversorgungssicherheit in Europa erhöhen. DIW Wochenbericht 30/2014, pp. 724–733.

Jonas Egerer, Friedrich Kunz et al. (2014): Electricity Sector Data for Policy-Relevant Modeling: Data Documentation and Applications to the German and European Electricity Markets. DIW Data Documentation 72.

Clemens Gerbaulet, Friedrich Kunz, Casimir Lorenz, Christian von Hirschhausen, and Benjamin Reinhard (2014): Cost-Minimal Investments into Conventional Generation Capacities under a Europe-Wide Renewables Policy. Proceedings of the 11th International Conference on the European Energy Market (EEM), pp. 1–7.

Friedrich Kunz, Clemens Gerbaulet, and Christian von Hirschhausen (2013): Mittelfristige Strombedarfsdeckung durch Kraftwerke und Netze nicht gefährdet. DIW Wochenbericht 48/2013, pp. 25–37.

Christian von Hirschhausen, Claudia Kemfert, Friedrich Kunz, and Roman Mendelevitch (2013): Europäische Stromerzeugung nach 2020: Beitrag erneuerbarer Energien nicht unterschätzen. DIW Wochenbericht 29/2013, pp. 3–13.

Christian von Hirschhausen, Claudia Kemfert, Friedrich Kunz, and Roman Mendelevitch (2013): European Electricity Generation Post-2020: Renewable Energy Not To Be Underestimated. DIW Economic Bulletin 9/2013, pp. 16–28.

Clemens Gerbaulet, Friedrich Kunz, Christian von Hirschhausen, and Alexander Zerrahn (2013): Netzsituation in Deutschland bleibt stabil. DIW Wochenbericht 20/21/2013, pp. 3–12.

Andreas Schröder, Friedrich Kunz et al. (2013): Current and Prospective Costs of Electricity Generation until 2050. DIW Data Documentation 68.

Jan Abrell and Friedrich Kunz (2013): Integrating Intermittent Renewable Wind Generation: A Stochastic Multi-Market Electricity Model for the European Electricity Market. DIW Discussion Paper 1301.

Friedrich Kunz and Alexander Zerrahn (2013): The Benefit of Coordinating Congestion Management in Germany. Proceedings of the 10th International Conference on the European Energy Market (EEM), pp. 1–8.

Friedrich Kunz and Alexander Zerrahn (2013): The Benefit of Coordinating Congestion Management in Germany. DIW Discussion Paper 1298.

Jonas Egerer, Friedrich Kunz, and Christian von Hirschhausen (2012): Development Scenarios for the North and Baltic Sea Grid: A Welfare Economic Analysis. DIW Discussion Paper 1261.

David Gunkel, Friedrich Kunz, Theresa Müller, Alexander von Selasinsky, and Dominik Möst (2012): Storage Investment or Transmission Expansion: How to Facilitate Renewable Energy Integration in Europe? Tagungsband VDE-Kongress Smart Grid - Intelligente Energieversorgung der Zukunft.

Jonas Egerer and Friedrich Kunz (2011): Market and Wind Integration in the North and Baltic Seas – Potential for Merchant Transmission Investment. Proceedings of the 10th International Workshop on Large-Scale Integration of Wind Power into Power Systems, Energynautics, Langen.

Friedrich Kunz, Christian von Hirschhausen, Dominik Möst, and Hannes Weigt (2011): Nachfragesicherung und Lastflüsse nach dem Abschalten von Kernkraftwerken in Deutschland - drohen Engpässe? Energiewirtschaftliche Tagesfragen, Vol. 61(9), pp. 28–32.

Friedrich Kunz, Christian von Hirschhausen, Dominik Möst, and Hannes Weigt (2011): Security of Supply and Electricity Network Flows after a Phase-Out of Germany's Nuclear Plants: Any Trouble Ahead? EUI Working Papers RSCAS 2011/32, European University Institute, San Domenico di Fiesole.

David Gunkel, Friedrich Kunz, Alexander von Selasinsky, and Dominik Möst (2011): Bewertung von Speicherkraftwerken im liberalisierten Strommarkt. In: Beckmann, M. and A. Hurtado (eds): Kraftwerkstechnik - Sichere und nachhaltige Energieversorgung (Band 3), TK Verlag, Neuruppin.

Friedrich Kunz (2009): Modeling Short-Term Security in Electricity Markets. Working Paper WP-EM-37. Chair for Energy Economics, TU Dresden.

Jan Abrell, Friedrich Kunz, and Hannes Weigt (2008): Start Me Up. Modeling of Power Plant Start-Up Conditions and their Impact on Prices. Working Paper WP-EM-28. Chair for Energy Economics, TU Dresden.

Friedrich Kunz, Florian Leuthold, Michael Baumgärtner, Hans-Christian Seeliger, and Linda Stolze (2008): Applying Experiments to Auctions in Electricity Markets. 5th International Conference on European Electricity Market (EEM), 28-30 May 2008, pp. 1–5.

Selected Presentations

The Benefit of Coordinating Congestion Management in Germany

05/2013 10th International Conference European Energy Market (EEM 13), *Stockholm, Sweden*

04/2013 8th Conference on Energy Economics and Technology (ENERDAY), *Dresden*

Congestion Management in Germany

06/2011 IDEI Konferenz "The Economics of Energy Markets", *Toulouse, France*

04/2011 Young Energy Engineers and Economists Seminar (YEEES), *Dresden*

Stochasticity in Electric Network Modeling

04/2010 5th Conference on Energy Economics and Technology (ENERDAY), *Dresden*

04/2010 Young Energy Engineers and Economists Seminar (YEEES), *Cambridge, UK*

Security Constrained Dispatch and Transmission Switching

10/2009 8th Conference on Applied Infrastructure Research (INFRADAY), *Berlin*

Start Me Up - Modeling of Power Plant Start-Up Conditions

04/2008 Young Energy Engineers and Economists Seminar (YEEES), *Vienna, Austria*

Applying Experiments to Auctions in Electricity Markets

06/2008 31st IAEE International Conference, *Istanbul, Turkey*

06/2008 GEE Student Chapter, *Munich*

05/2008 5th European Electricity Conference (EEM 08), *Lisbon*, Portugal

Projects

- Since 2012 Model-Based Analyses for the Electricity Sector Design to Favor the Integration of Renewable Energies in the Energy Transformation (MASMIE). Research project funded by the Mercator foundation.
- 2009–2011 Price Impacts of Renewables in the German Electricity Market. Study commissioned by the German Federal Ministry of Environment and Nuclear Safety (BMU).
- 2009–2010 Smart Power Market Project, supporting the EU Project "RE-Shaping: Shaping an Effective and Efficient European Renewable Energy Market".
- 2007 Divestiture as an Instrument of a Pro-active Competition Policy: Conceptual Issues and Lessons from International Experiences. Study commissioned by the Ministry of Economics of the Land Hessen.
- 2007 Congestion Management in the German Electricity Sector - Basic Setting and Scenario Analysis. Industry project.

September 29, 2014