

Curriculum Vitae

Prof. Dr. Anne Neumann

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Professional Experience

since 12/2010	Professor for Economic Policy (Juniorprofessur), Universität Potsdam
since 09/2012	Associate Professor, NHH Bergen (Norwegen)
since 07/2011	Research Professor, DIW Berlin
08/2008 – 11/2010	Post-Doc, DIW Berlin (Dept. Innovation, Industry, Services)
10/2004 – 07/2008	Researcher, Technische Universität Dresden
10/2007 – 01/2008	Visiting Scholar, Electricity Policy Research Group (EPRG), Cambridge University, UK
08/2003 – 11/2003	Consultant to the Energy Diversification Division of the International Energy Agency (IEA/OECD), Paris
09/2002 – 09/2004	Student Assistant, DIW Berlin
2000 – 2002	Tutor Mathematics, European University Viadrina Frankfurt/Oder

Degrees

10/2004 – 07/2007	Dr. rer. pol., Technische Universität Dresden (summa cum laude) (awarded with Dr. Feldbausch Preis of the Faculty)
10/1999 – 04/2004	Dipl.-Volkswirtin Europa Universität Viadrina, Frankfurt/Oder

Research Areas

- Empirical economic research applied to international resource markets, contracts, international trade and market integration
- Regulation of network industries
- Specialization in industrial organization with applications to energy markets

Current Research Project

International Energy Resource Markets under Climate Constraints – Strategic Behavior and Carbon Leakage in Coal, Oil, and Natural Gas Markets (BMBF Forschungsprojekt – Ministry of Education and Research, (2012-2015)); jointly Universität Potsdam and DIW Berlin.

Submitted Research Project

Does Energy Trade and Infrastructure Bring us Together or Pull us Apart?, with Hebrew University Jerusalem, Haifa University and International Peace and Cooperation Center in Palestine, submitted to DFG.

Finished Research Projects

Carbon Pricing and Investment Response, Project with CPI Berlin and Climate Strategies.

Intangible Capital and Innovations: Drivers of Growth and Location in the EU (INNODRIVE), Collaborative Project, 7th FP Programme (Intangible Investments and Innovation in Europe).

Security of Energy Considering its Uncertainty, Risk and Economic Implications (SECURE), Collaborative Project, 7th FP Programme (Energy Security of Supply).

The Economics of Natural Gas Storage (joint research project with IEFE (Italy), CREDEN and CREST (France)).

CESSA – Coordinating Energy Security in Supply Activities, Work Package 3: Economic Mechanisms and Policy Guidance for Sustaining a Robust Development of European Gas Supply, 7th FP Programme.

ENCOURAGED – Energy Corridors Optimisation for the European Markets of Gas, Electricity and Hydrogen, Work Package 2: Natural Gas Corridors and Work Package 4: Integration of Optimal Energy Corridors, 6th FP Programme.

Publications

Papers in refereed journals

1. **A. Neumann**, J. Rosellón and H. Weigt (201x): Removing Cross-Border Capacity Bottlenecks in the European Natural Gas Market - A Proposed Merchant-Regulatory Mechanism. *Networks and Spatial Economics*, doi: 10.1007/s11067-014-9273-3.
2. **A. Neumann** and C.v. Hirschhausen (2015): Natural Gas: An Overview of a Lower-Carbon Transformation Fuel. *Review of Environmental Economics and Policy*. Vol. 9, No. 1 (Winter 2015)
3. Zaklan, A., A. Cullmann, **A. Neumann** and C.v. Hirschhausen (2012): The Globalization of Steam Coal Markets and the Role of Logistics: An Empirical Analysis. *Energy Economics*, Vol. 42, No. 1, pp. 105-116.
4. Nieswand, M., A. Cullmann and **A. Neumann** (2010): Overcoming Data Limitations in Nonparametric Benchmarking: Applying PCA-DEA to Natural Gas Transmission. *Review of Network Economics*, Vol. 9, No.2.
5. G. Meran, C.v. Hirschhausen and **A. Neumann** (2010): Access Pricing and Network Expansion in Natural Gas Markets. *Zeitschrift für Energiewirtschaft*, Vol. 34, No. 3, pp. 179-183.
6. M. Stronzik, M. Rammerstorfer and **A. Neumann** (2009): Does the European Natural Gas Market Pass the Competitive Benchmark of the Theory of Storage? Indirect Tests for Three Major Trading Points. *Energy Policy*, Vol. 37, No. 12, pp. 5432-5439.
7. **A. Neumann** (2009): Linking Natural Gas Markets – Is LNG Doing its Job? *Energy Journal*, Vol. 30, Special Issue. World Natural Gas Markets and Trade: A Multi-Modelling Perspective, pp. 187-199.

8. Hirschhausen, C.v., **A. Neumann** and H. Weigt (2009): Divestiture as an Instrument of a Pro-active Competition Policy: Conceptual Issues and Lessons from International Experiences. *The Electricity Journal*, Vol. 23, No. 3, pp. 57-69.
9. Rüter, S. and **A. Neumann** (2009): Linking Alternative Theories of the Firm – A First Empirical Application to the Liquefied Natural Gas Industry. *Journal of Institutional Economics*, Vol. 5, No. 1.
10. Rüter, S. and **A. Neumann** (2008): The Prospects for Liquefied Natural Gas Development in the US Energy Policy. *Energy Policy*, Vol. 36, No. 8, pp. 3150-3158. pp. 47-64.
11. Hirschhausen, C.v. and **A. Neumann** (2008): Long-Term Contracts and Asset Specificity Revisited: An Empirical Analysis of Producer-Importer Relations in the Natural Gas Industry. *Review of Industrial Organization*, Vol. 32, No. 2, pp. 131-143.
12. Hirschhausen, C.v., **A. Neumann** and S. Ruester (2007): Wettbewerb im Ferntransport von Erdgas? Technisch-ökonomische Grundlagen und Anwendung auf Deutschland. *Zeitschrift für Energiewirtschaft*, Vol. 31, No. 3, pp. 183-193.
13. **Neumann, A.**, B. Siliverstovs and C.v. Hirschhausen (2006): Convergence of European Spot Market Prices for Natural Gas? A Real-Time Analysis of Market Integration Using the Kalman Filter. *Applied Economics Letters*, Vol. 13, No. 11, pp. 727-732.
14. Siliverstovs, B., G. L'Hegaret, **A. Neumann** and C.v. Hirschhausen (2005): International Market Integration for Gas? Cointegration Analysis of Gas Prices in Europe, North America and Japan. *Energy Economics*, Vol. 27, No. 4, pp. 603-615.
15. **Neumann, A.** and C.v. Hirschhausen (2004): Less Long Term Gas to Europe? A Quantitative Analysis of European Long Term Gas-Supply Contracts. *Zeitschrift für Energiewirtschaft*, Vol. 28, No. 3, pp. 175-182.

Papers under review

16. Ponce, M. und **A. Neumann** (2014): How do US Natural Gas Producers React to Price Changes? (earlier version published as: Elasticities of Supply for the US Natural Gas Market. DIW Discussion Paper 1372).
17. **Neumann, A.**, M. Nieswand and T. Schubert (2013): Estimating Alternative Technology Sets in Nonparametric Efficiency Analysis: Restriction Tests for Panel and Clustered Data. Published as DIW Discussion Paper 1283 (revise and resubmit *Journal of Productivity Analysis*).

Work in progress

18. LNG Pricing Differences Across the Atlantic – A Comparison Between the US and Europe (*with M. Ponce*).
19. Evaluating Auctions for Natural Gas Transport Capacities in Europe (*with S. Schwenen*).

Other Publications

20. **A. Neumann**, M. Ponce and C.v. Hirschhausen (2013): Internationale Erdgaspreise: Marktsegmentierung und Transaktionskosten führen zu dauerhafter Preisdivergenz. *DIW Wochenbericht 47/2013*.
21. Cullmann, A. and **A. Neumann** (2012): What's the Story with Natural Gas Markets in Europe? Empirical Evidence from Spot Trade Data (*mit Astrid Cullmann*). Conference Proceedings of the 9th International Conference on the European Energy Market (EEM) (IEEE).
22. **Neumann, A.** (2012): *Book Review* "Competition, Contracts and Electricity Markets: A New Perspective" J.-M. Glachant, D. Finon and A. de Hauteclocque (eds.). Loyola de Palacio Series on

- European Energy Policy, Cheltenham: Edward Elgar Publishing Ltd., 2011. in: *Economics of Energy & Environmental Policy*, Vol. 1, No. 3, pp. 131-133.
23. Hirschhausen, C.v., C. Haftendorn, T. Winke and **A. Neumann** (2012): Fossil Fuel Availability until 2050 - The Real Shortage will be the CO₂ Budget. In: J.-M. Glachant, N. Ahner, L. Meeus (eds.) (2012): "EU Energy Innovation Policy Towards 2050", Clayes & Casteels Publ.
 24. Zaklan, A., J. Abrell and **A. Neumann** (2011): Stationarity Changes in Long-Run Fossil Resource Prices: Evidence from Persistence Break Testing. DIW Discussion Paper 1154.
 25. **Neumann, A.** and K. Neuhoff (2011): Facilitating Low-carbon Investments - Lessons from Natural Gas. DIW Berlin Discussion Paper 1154).
 26. Zaklan, A., **A. Neumann** and C.v. Hirschhausen (2011): Welt-Metallmärkte: steigende Preise bei hoher Marktkonzentration. *DIW Wochenbericht 19/2011*.
 27. Geppert, K. and **A. Neumann** (2011): Regional Patterns of Intangible Capital, Agglomeration Effects and Localised Spillovers in Germany. DIW Discussion Paper 1112.
 28. Zaklan, A., G. Zachmann and **A. Neumann** (2010): Dynamics of Crude Oil Production. DIW Berlin Discussion Paper 1075
 29. Hirschhausen, C.v., F. Holz, **A. Neumann** and S. Rüster (2010): Supply Security and Natural Gas. In: F. Lévêque et al. (eds.) (2010): "Security of Energy Supply in Europe: Natural Gas, Nuclear, and Hydrogen", Edward Elgar Publ.
 30. Hirschhausen, C.v., C. Haftendorn, J. Herold, F. Holz, **A. Neumann** and S. Rüster (2010): Europe's Coal Supply Security: Obstacles to Carbon Capture and Storage. CEPS Policy Brief 223, Brussels.
 31. **Neumann, A.**, N. Viehrig and H. Weigt (2009): InTraGas - A Stylized Model of the European Natural Gas Network. Working Paper WP-RM-16, TU Dresden.
 32. Engerer, H., M. Horn and **A. Neumann** (2009): Bei erneutem Gasstreit zwischen Ukraine und Russland: Wäre Europa jetzt gewappnet? *DIW Wochenbericht 48/2009*.
 33. **Neumann, A.** and G. Zachmann (2009): Expected vs. Observed Storage Usage: Limits to Intertemporal Arbitrage. In: Creti, Anna (2009): *The Economics of Natural Gas Storage: a European Perspective*, pp. 17-35. Springer.
 34. **Neumann, A.** and J.-H. Niehues (2008): Die Energierohstoffwirtschaft Albertas. ifo Dresden berichtet 3/2008.
 35. Hirschhausen, C.v., **A. Neumann** and H. Weigt (2008): Horizontale Entflechtung als aktive Wettbewerbspolitik. *Wirtschaftsdienst*, Vol. 88, No. 5, pp. 322-325.
 36. Stronzik, M., M. Rammerstorfer and **A. Neumann** (2008): Wettbewerb im Markt für Erdgasspeicher, WIK Diskussionsbeitrag Nr. 305.
 37. Rhiel, A. B. Heitzer, B.A. Bonekamp, C.v. Hirschhausen, **A. Neumann** and H. Weigt (2008): Deutsche Energiemärkte brauchen mehr Wettbewerb, ifo Schnelldienst 1/2008 pp. 13-15.
 38. Hirschhausen, C.v., **A. Neumann** and S. Rüster (2007): Competition in Natural Gas Transportation? Technical and Economic Fundamentals and an Application to Germany. Working Paper WP-GG-21b, TU Dresden.
 39. Rüster, S. and **A. Neumann** (2006): Corporate Strategies along the LNG Value Added Chain - An Empirical Analysis of the Determinants of Vertical Integration. Working Paper WP-GG-17, TU Dresden.
 40. Contribution to the International Energy Agency Publication „Security of Gas Supply in Open Markets – LNG and Power at a Turning Point“, Paris, OECD (2004).
 41. Hirschhausen, C.v., A. Kappeler and **A. Neumann** (2003): Infrastrukturausbau in Europa – Mehr Investitionen und höhere Effizienz durch bessere Regulierung? Ergebnisse einer internationalen Konferenz des DIW Berlin. *DIW Wochenbericht 49/03*.

42. C.v. Hirschhausen and A. Neumann (2003): Liberalisierung der europäischen Gaswirtschaft: Neue Regulierungsbehörde soll mehr Wettbewerb schaffen. *DIW Wochenbericht* 36-37/03.

Teaching

- Wettbewerbstheorie und –politik / Competition Theory and Policy
- Angewandte Wettbewerbstheorie / Applied Competition Theory
- Einführung in die Energiewirtschaft / Introduction to Energy Economics (Vorlesung)
- Topics in Energy Economics
- Industrieökonomische Analyse von Energiemärkten / Industrial Organization of Energy Markets
- Economics of Global Warming
- Economics and Law of Regulation
- Natural Gas Economics (“Compétition et marchés de l’énergie” at CERNA, Ecole des Mines de Paris, 2007-2009)
- Social Cost-Benefit Analysis (Supervision for Prof. David Newbery, University of Cambridge)
- Economics of the Electricity and Natural Gas Industry (Master of European Regulation of Network Industries, MERNI, Universität Bonn)
- Master of Laws in Energy and Environmental Law (MEEL), KU Leuven (2010-2012)

PhD Support and Committees

- 2015 Karolin Hermann, Universität Potsdam (secondary supervision)
“Die Kompetenzallokation in der Fusionskontrolle im Spannungsfeld nationaler und europäischer Interessen”
- 2014 Committee Member Thomas Kremser, WU Wien
„Essays on Asset Pricing and Commodity Futures“
- 2013 Rainald Ötsch, Universität Potsdam (secondary supervision)
„Stromerzeugung in Deutschland unter den Rahmenbedingung von Klimapolitik und liberalisiertem Strommarkt – Bewertung von Kraftwerksinvestitionen mit Bayes’schen Einflußdiagrammen“
- 2013 Committee Member Pablo Duanes, UP Comillas
“Analysis of the operation and contract management in downstream natural gas markets”
- 2012 Committee Member Jeroen de Joode, TU Delft
„Regulation of Gas Infrastructure Expansion”
- 2012 Committee Member Jette Krause, Universität Potsdam
„Eine Experten-basierte Bayesianische Analyse der CO₂-Emissionsreduktions-möglichkeiten für die deutsche Neuwagenflotte bis 2030“

Service to the University

- 2014 Member of Hiring Committee „Climate Change, Development and Economic Growth”
- 2013 Library Advisor for the Faculty, Member of Study Commission (ongoing)
- 2011 Member of working groups Bachelor Politics and Economics / Equal Opportunities

Selected Presentations

Conferences

- International Association of Energy Economics International Conference (New York), Empirical Methods in Energy Economics (Aachen) 2014

- Empirical Methods in Energy Economics (Ottawa) 2013
- European Energy Markets (Florence), Verein für Socialpolitik (Göttingen) 2012
- International Association of Energy Economics International Conference (Stockholm); Empirical Methods in Energy Economics (Dallas) 2011
- Empirical Methods in Energy Economics (Surrey) 2010
- Verein für Socialpolitik (Magdeburg); International Association of Energy Economics European Conference (Vienna) 2009
- Empirical Methods in Energy Economics (Zurich) 2008
- Verein für Socialpolitik Annual Congress (Munich); International Association of Energy Economics European Conference (Florence) 2007
- International Association of Energy Economics North American Conference (Michigan); EARIE (Amsterdam) 2006
- International Society for New Institutional Economics Annual Congress (Barcelona); International Association of Energy Economics European Conference (Bergen) 2005

Invited Presentations

- TU Berlin, FH Stralsund, Hertie School of Governance, U Basel
Florence School of Regulation 2014
- TU Bergakademie Freiberg 2013
- U Stirling; NHH Bergen 2011
- SPEA (Indiana U Bloomington) (Berlin)
2010-2013
- U Cottbus; U Potsdam; Stanford U (PESD) 2009
- Oxford Institute for Energy Studies 2008
- Columbia U (New York); Transatlantic Energy Security Dialogue; CESSA;
Florence School of Regulation; Stanford Energy Modelling Forum 2007
- Rice U (Texas); Doha (Qatar) 2006

Service to the Profession

Refereeing

Applied Economics, B.E. Journal of Economic Analysis and Policy, Canadian Journal of Economics, Economics of Energy and Environmental Policy, Energy Economics, Energy Policy, Energy Studies Review, Norwegian Research Council, Journal of Environmental Economics and Management, The Energy Journal, The Review of International Organisations, Economic Inquiry.

Conference/ Workshop Organisation

- Scientific Committee international IAEE Meeting in Bergen (Norway) 2016
- Scientific Committee “European Energy Markets (EEM)” (since 2010)
- Scientific Committee “Empirical Methods in Energy Economics (EMEE)” (since 2012)
- Local organizer ‘Empirical Methods in Energy Economics’ (June 2012, Berlin).
- Organizer workshops for the European School on New Institutional Economics (ESNIE) (June 2010, Cargese, France).

- Co-Organizer and Scientific Committee, Enerday Workshop on Energy Economics and Technology, TU Dresden (2006-2008).
- Co-Founder of the European Doctoral Seminar on Natural Gas (2005),

Languages

German, English, Russian