

## Curriculum Vitae

Prof. Dr. Anne F. Neumann

University Potsdam

T: +49-(0)331-977-3839

F: +49-(0)331-977-3223

anne.neumann@uni-potsdam.de

www.uni-potsdam.de/wipo

DIW Berlin

T: +49-(0)30-89789-304

F: +49-(0)30-89789-104

aneumann@diw.de



\* 1976, Potsdam

### Professional Experience

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since 12/2010	Professor for Economic Policy, University Potsdam
since 08/2008	Senior Researcher, DIW Berlin (Dept. Innovation, Manufacturing, Industries)
10/2004 – 07/2008	Researcher, Technische Universität Dresden
10/2007 – 01/2008	Visiting Scholar, 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

### Academic Degrees

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10/2004 – 07/2007	Dr. rer. pol., Technische Universität Dresden (summa cum laude)
10/1999 – 04/2004	Dipl.-Volkswirtin Europa-Universität, Frankfurt/Oder

### Research Areas

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- 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

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Long-run Evolution of Fossil Fuel Prices: Evidence from Persistence Break Testing (*with Aleksandar Zaklan and Jan Abrell*)

The Dynamics of Global Crude Oil Production (*with Aleksandar Zaklan and Georg Zachmann*)

Removing Cross-Border Capacity Bottlenecks in the European Natural Gas Market (*with Juan Rosellon and Hannes Weigt*).

Natural Gas Storage: Competitive Storage vs. Strategic Behavior (*with Georg Zachmann*).

## Publications

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- The Globalization of Steam Coal Markets and the Role of Logistics: An Empirical Analysis. *Energy Economics* (forthcoming) (with Aleksandar Zaklan, Astrid Cullmann and Christian von Hirschhausen) (2011).
- Overcoming Data Limitations in Nonparametric Benchmarking: Applying PCA-DEA to Natural Gas Transmission. *Review of Network Economics*, Vol. 9, No.2 (with Maria Nieswand and Astrid Cullmann) (2010).
- 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 (with Marcus Stronzik and Margarethe Rammerstorfer) (2009).
- Linking Natural Gas Markets – Is LNG Doing its Job? *Energy Journal*, Vol. 30, Special Issue. *World Natural Gas Markets and Trade: A Multi-Modeling Perspective*, pp. 187-199 (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 (with Hannes Weigt and Christian von Hirschhausen) (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 (with Sophia Rüster) (2009).
- The Prospects for Liquefied Natural Gas Development in the US Energy Policy. *Energy Policy*, Vol. 36, No. 8, pp. 3150-3158. pp. 47-64 (with Sophia Rüster) (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 (with Christian von Hirschhausen) (2008).
- Wettbewerb im Ferntransport von Erdgas? Technisch-ökonomische Grundlagen und Anwendung auf Deutschland. *Zeitschrift für Energiewirtschaft*, Vol. 31, No. 3, pp. 183-193, (with Christian von Hirschhausen und Sophia Rüster) (2007).
- 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 (with Boriss Siliverstovs and Christian von Hirschhausen) (2006).
- 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 (with Guillaume L'Hegaret, Boriss Siliverstovs and Christian von Hirschhausen) (2005).
- 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 (with Christian von Hirschhausen) (2004).

## Other Publications

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- Regional Patterns of Intangible Capital, Agglomeration Effects and Localised Spillovers in Germany. DIW Discussion Paper (with Kurt Geppert) (2011).
- The Dynamics of Global Crude Oil Production. DIW Discussion Paper 1075 (with Aleksandar Zaklan and Georg Zachmann) (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 (with Christian von Hirschhausen, Franziska Holz, and Sophia Rüster).
- Bei erneutem Gasstreit zwischen Ukraine und Russland: Wäre Europa jetzt gewappnet? *DIW Wochenbericht* 48/2009 (with Manfred Horn and Hella Engerer) (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 (with Georg Zachmann).
- Die Energierohstoffwirtschaft Albertas. ifo Dresden berichtet 3/2008 (mit Jan-Hendrik Niehues).
- Horizontale Entflechtung als aktive Wettbewerbspolitik. *Wirtschaftsdienst*, Vol. 88, No. 5, pp. 322-325 (with Christian von Hirschhausen and Hannes Weigt) (2008).
- Wettbewerb im Markt für Erdgasspeicher, WIK Diskussionsbeitrag Nr. 305 (with Marcus Stronzik and Margarethe Rammerstorfer) (2008).
- Deutsche Energiemärkte brauchen mehr Wettbewerb, ifo Schnelldienst 1/2008 pp. 13–15 (with Christian von Hirschhausen and Hannes Weigt) (2008).
- Competition in Natural Gas Transportation? Technical and Economical Fundamentals and an Application to Germany. Working Paper WP-GG-21b, TU Dresden (with Christian von Hirschhausen and Sophia Rüster) (2007).
- Belarus Infrastructure Monitoring (editor), German Economic Team in Belarus, IPM Research Center (2007, 2008).
- Corporate Strategies along the LNG Value Added Chain - An Empirical Analysis of the Determinants of Vertical Integration. Working Paper WP-GG-17 (with Sophia Rüster) (2006).
- Contribution to the International Energy Agency Publication „Security of Gas Supply in Open Markets – LNG and Power at a Turning Point“, Paris, OECD (2004).
- Infrastrukturausbau in Europa – Mehr Investitionen und höhere Effizienz durch bessere Regulierung? Ergebnisse einer internationalen Konferenz des DIW Berlin. *DIW Wochenbericht* 49/03 (with Christian von Hirschhausen and Andreas Kappeler) (2003).
- Liberalisierung der europäischen Gaswirtschaft: Neue Regulierungsbehörde soll mehr Wettbewerb schaffen. *DIW Wochenbericht* 36-37/03 (with Christian von Hirschhausen) (2003).

## Teaching

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- Einführung in die Energiewirtschaft / Introduction to Energy Economics
- Industrieökonomische Analyse von Energiemärkten / Industrial Organization Applied to Energy Markets
- Economics of Global Warming
- Topics in European Energy Economics and Management
- Economics and Law of Regulation
- Commercial Natural Gas Storage
- Natural Gas Economics (“Compétition et marchés de l’énergie” at CERNA, Ecole des Mines de Paris, 2007, 2008, 2009)
- Social Cost-Benefit Analysis (Supervision, University of Cambridge)
- Economics of the Electricity and Natural Gas Industry (Master of European Regulation of Network Industries, MERNI, since 2008)
- Wettbewerbstheorie und- politik / Competition Theory and Policy (Lectureship University Potsdam, summer term 2010)
- Energiewirtschaft / Energy Economics (Lectureship European University Viadrina, Frankfurt(Oder), summer term 2009)
- Market Reforms and Investment in Natural Gas Infrastructure (Training Course for Senior Regulatory Staff from MedReg MPC Countries, Florence School of Regulation, July 2009, Milano)

## PhD Supervision

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- Sophia Rüster, Chair of Energy Economics and Public Sector Management, TU Dresden, '*Vertical Structures in the Global Liquefied Natural Gas Market: Empirical Analyses Based on Recent Developments in Transaction Cost Economics*' (2006-2010)
- Maria Nieswand, Graduate Center DIW Berlin, '*Essays on Efficiency Analysis*' (2009 - )
- Aleksandar Zaklan, Graduate Center, DIW Berlin, '*Econometric Analyses of Carbon Resource Markets*' (2010 - )

## Finished Projects

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*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, 7<sup>th</sup> FP Programme (Intangible Investments and Innovation in Europe).

*Security of Energy Considering its Uncertainty, Risk and Economic Implications (SECURE)*, Collaborative Project, 7<sup>th</sup> 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, 7<sup>th</sup> 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, 6<sup>th</sup> FP Programme.

## Finished Academic Consulting

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Study on the Interoperability of LNG Facilities and Interchangeability of Gas. *Advice on the opportunity to set up an action plan for the promotion of LNG chain investments for DG TREN*, 2008.

Durchführung von Effizienzvergleichen der Verteilnetzbetreiber Strom und Gas sowie Fernleitungsnetzbetreiber Gas. *Joint Consultancy Project with SUMICSID for the German Regulator*, 2008.

Entflechtung als Instrument einer aktiven Wettbewerbspolitik: Funktionsweise und Lehren aus internationalen Erfahrungen; *Research Project for the Ministry of Economy of Hesse*, 2007.

Competition in the German Natural Gas Industry? *Project for the European Federation of Energy Traders*, 2007.

## Selected Presentations

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### Conferences

- Empirical Methods in Energy Economics (Surrey) 2010
- Verein für Socialpolitik Annual Congress (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

- Hertie School of Governance (Berlin) 2010
- University of Cottbus, University of Potsdam, Stanford University (PESD) 2009
- Oxford Institute for Energy Studies 2008
- Columbia University (New York), Transatlantic Energy Security Dialogue, CESSA, Florence School of Regulation, Stanford Energy Modelling Forum 2007
- Rice University (Texas), Doha (Qatar) 2006

#### Other Merits

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- Workshop organizer at the European School on New Institutional Economics (ESNIE) (June 2010, Cargese, France).
- Attendance at the Executive Education Course ‘Economic Fundamentals of Electricity Regulation and Markets’, UCEI Berkeley, by S. Borenstein and J. Bushnell (January 2007, Sacramento, CA).
- Attendance at the European School on New Institutional Economics (ESNIE) (May 2006, Cargese, France).
- Co-Organizer and Member of the Scientific Committee, Enerday Workshop on Energy Economics and Technology, TU Dresden (2006-2008)
- Co-founder of the European Doctoral Seminar on Natural Gas (2005), [http://www.tu-dresden.de/www/leeg/projekte/gg/PhD/PhD\\_Seminar\\_Natural\\_Gas.html](http://www.tu-dresden.de/www/leeg/projekte/gg/PhD/PhD_Seminar_Natural_Gas.html).
- Junior Trainer at the INFRATRAN (Training in Infrastructure Research): Project Design and Contractual Structure – Focus on Energy Infrastructure (October 2005, TU Berlin).
- Attendance at the INFRATRAN (Training in Infrastructure Research) 1 and 2: Advanced European Gas Pipeline Modeling (October 2004 and March 2005, TU Berlin and DIW Berlin).

#### Refereeing

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The Energy Journal, Energy Policy, Energy Economics, Energy Studies Review, The Review of International Organisations, Economic Inquiry, Applied Economics, Journal of Environmental Economics and Management, Canadian Journal of Economics.

#### Memberships

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Gesellschaft für Energiewissenschaft und Energiepolitik e. V. (GEE), International Association for Energy Economics (IAEE), Verein für Socialpolitik (VfS), European Economic Association (EEA).

#### Languages

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German (native), English (fluent), Russian (basic).