

Department of Environmental and Resource Economics,  
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## CLAIRE GAVARD

### Current Position

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*Oct. 2015-*      **Advanced Researcher, ZEW – Leibniz Centre for European Economic Research**  
Fields of interest: Environmental and energy economics, environmental policy.  
.Academic research on the economic impacts of climate policy: carbon pricing, renewable energy support, energy efficiency, international negotiations  
.Consulting to national and European policy institutions  
.Dissemination of research outputs  
.Recruitment and supervision of bachelor, master and PhD students  
.Funding acquisition and project coordination

### Education

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*2009-2013*      **PhD in Economics, Université Paris 1 Panthéon-Sorbonne, Paris School of Economics**  
Dissertation : "*Economic Analysis of the Potential Mechanisms to Couple the European Carbon Market with Emerging Countries*".  
Committee : J.Chevallier (Paris 8), H.D.Jacoby (MIT), K.Millock (Paris 1), P.Quirion (CNRS), L.Ragot (Paris Ouest), K. Schubert (Paris 1).

*Jan-Jul. 2012*      **Cycle Horizon Europe, Ecole Nationale d'Administration**  
Nine-day training on European policies and institutions.

*Jul-Aug. 2009*      **Summer School, London School of Economics**  
Microeconomics, econometrics.

*June 2008*      **Master in Innovation Management, Ecole Polytechnique**  
*Scholarship for Academic Excellence.*

*June 2006*      **MSc in Physics and Chemistry, Ecole Supérieure de Physiques et Chimie Industrielles**  
Physics and chemistry graduate level school.

*1999-2001*      **Preparation to the Grandes Ecoles entrance exam**  
Biology, physics, chemistry, mathematics.  
*Admitted within the top 1% at the Grandes Ecoles entrance exams*

### References

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Prof. Katheline Schubert  
Université Paris 1 Panthéon-Sorbonne and PSE

Prof. Henry D. Jacoby  
Sloan School, MIT

Prof. Katrin Millock  
CNRS and PSE

Prof. Richard S. Eckaus  
Economics Department, MIT

## Research Activities

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### *Work in Progress*

"*Local Economic Impacts of Wind Power Deployment in Denmark*", with J. Goebel and N. Schoch.

"*Lessons from the EU Effort Sharing Decision for Supranational Climate Cooperation: a Firm-level Analysis*", with L. Diethelm.

### *Working Papers*

"*Supporting Residential Energy Conservation Under Constrained Public Budget: Cost-Effectiveness and Redistribution Analysis of Public Financial Schemes in France*", with B. Chlond and L. Jeuck, ZEW Discussion Paper No.21-056.

"*Climate Finance and Emission Reductions: What Do the Last Twenty Years Tell Us?*", with N. Schoch, ZEW Discussion Paper No.21-014.

"*Short-term Impacts of Carbon Offsetting on Emission Trading Schemes: Empirical Insights from the EU Experience*", with D. Kirat, ZEW Discussion Paper No.20-058.

"*Using Emissions Trading Schemes to Reduce Heterogeneous Distortionary Taxes: the case of Recycling Carbon Auction Revenues to support Renewable Energy*", with S. Voigt and A. Genty, ZEW Discussion Paper No.18-058.

"*Flexibility in the Market for International Carbon Credits Market and Price Dynamics Difference with European Allowances*", with D. Kirat, FEEM nota di lavoro 3, 2015; superseded by ZEW Discussion Paper No. 17-054 and publication in *Energy Economics*.

"*Limited Sectoral Trading between the EU-ETS and China*", with N. Winchester et S. Paltsev, MIT JPSPGC, Report 249, August 2013; superseded by publication in *Energy Economics*.

"*Carbon Price as Renewable Energy Support? Empirical Analysis on Denmark*", EUI RSCAS 2012/19, May 2012; superseded by "*Carbon Price and Wind Power in Denmark*", FEEM nota di lavoro 4, 2015, and publication in *Energy Policy*.

"*Sectoral Trading between the EU-ETS and Emerging Countries*", with H.D. Jacoby, N. Winchester and S. Paltsev, MIT JPSPGC, Report 193, Appendix A, February 2011.

"*What to Expect from Sectoral Trading, a US-China Example*", with H.D. Jacoby, N. Winchester and S. Paltsev, MIT JPSPGC, Report 193, February 2011, superseded by publication in *Climate Change Economics*.

### *Journal Articles*

"*Flexibility in the Market for International Carbon Credits and Price Dynamics Difference with European Allowances*", with D. Kirat, *Energy Economics*, Vol. 76, (2018), pp. 504-518

"*Limited Trading of Emissions Permits as a Climate Cooperation Mechanism? US-China and EU-China Examples*", with N. Winchester and S. Paltsev, *Energy Economics*, Vol. 58, (2016), pp.95-104.

"*Carbon Price and Wind Power Support in Denmark*", *Energy Policy*, Vol. 92, (2016), pp. 455-

"*What to Expect from Sectoral Trading, a US-China Example*", with H.D. Jacoby, N. Winchester and S. Paltsev, *Climate Change Economics*, Vol. 2, No. 1 (2011), pp. 9-26.

### ***Book Chapter***

"*Accord Sectoriel entre un Marché Carbone Américain et le Secteur Electrique Chinois*", with H.D. Jacoby, N. Winchester and S. Paltsev, in "Economie du Climat - Pistes pour l'après Kyoto", eds J-P. Ponsard and O. Godard, Ecole Polytechnique, 2011.

### ***Report for policy institutions***

"*EU Competitiveness and the 2030 Framework - An Industry Perspective*", with S. Voigt, European Commission report, 2018. DOI:10.2826/830079.

### ***Conference Participation and Invited Talks***

- 2021 European Association of Environmental and Resource Economics (digital); Association Française de Sciences Economiques (digital); International Energy Workshop (digital); Second Mid-Term Workshop of the BMBF InFairCom Project (Mannheim); ZEW Environmental and Resource Economics - Econometrics Seminar (Mannheim).
- 2020 FSR Climate Annual Conference, European University Institute (*Invited Speaker*, digital); French Association of Environmental and Resource Economics (digital); European Association of Environmental and Resource Economics (digital); Mid-Term Workshop of the BMBF COMPLIANCE Project (digital); First Mid-Term Workshop of the BMBF InFairCom Project (Mannheim); ZEW Environmental and Resource Economics - Econometrics Seminar (Mannheim).
- 2019 American Economic Association - ASSA Annual Meeting (Atlanta); 12th Toulouse Conference on the Economics of Energy and Climate (Toulouse); European Association of Environmental and Resource Economics (Manchester); 6th conference of the French Association of Environmental and Resource Economists (Rennes); 8th Mannheim Energy Conference (Mannheim); International Symposium on Energy and Finance Issues (Paris); Kick-off Workshop of the BMBF InFairCom Project (Mannheim); Kick-off Workshop of the BMBF COMPLIANCE Project (Mannheim); ZEW Environmental and Resource Economics Lunch Seminar (Mannheim).
- 2018 Annual Conference of the Florence School of Regulation Climate Unit, European University Institute (Florence); 5th conference of the French Association of Environmental and Resource Economists (Aix-en-Provence); World Congress of Environmental and Resource Economists (Gothenburg); 41st conference of the International Association for Energy Economics (Groningen); 7th Mannheim Energy Conference (Mannheim); ZEW Environmental and Resource Economics Lunch Seminar (Mannheim).
- 2017 Annual Conference of the Florence School of Regulation Climate Unit, European University Institute (Florence); InTrans workshop (Mannheim); ZEW Environmental and Resource Economics Lunch Seminar (Mannheim).

- 2016 ZEW Environmental Economics Monthly Brownbag Seminar, with Heidelberg University (Mannheim); ZEW Environmental and Resource Economics Lunch Seminar (Mannheim); International Symposium on Energy and Finance Issues (Paris).
- 2015 FZU-ZEW Environmental Economics Monthly Brownbag Seminar, with Heidelberg University (Mannheim); European Association of Environmental and Resource Economics (Helsinki); International Energy Workshop (Abu Dhabi); Green Growth Knowledge Platform Conference (Venice); MIT Joint Program Friday Seminar (Cambridge, MA).
- 2014 Seminar of the Orléans Economics Laboratory (*invited speaker*); FEEM Convention (Venice); International Association for Energy Economics (Rome).
- 2013 International Association for Energy Economics (Düsseldorf); Mannheim Energy Conference, Centre for European Economic Research; European Association of Environmental and Resource Economics (Toulouse).
- 2012 Climate Policy Research Unit Annual Conference, European University Institute (*invited speaker*, Florence); International Association for Energy Economics (Venice); European Energy Market (Florence); Paris 1 University Environmental Seminar.
- 2011 Seminar on Competition and Regulation, European University Institute (Florence); Friday Lunch Meeting, Chaire Economie du Climat (Paris).
- 2010 MIT Joint Program Friday Meeting; MIT EPPA Meeting; MIT Electricity Student Research Group (Cambridge, MA).

## Research Grants and Externally Funded Projects

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InFairCom: Incentives, fairness and compliance in international environmental agreements; funding by the German Federal Ministry of Education and Research (BMBF) (260,000€; WP1 coordinator).

COMPLIANCE: Monitoring, verification and reporting; funding by BMBF (200,000€; principal investigator).

SEEK funding for the analysis of the local economic impacts of wind power deployment in Denmark (58,000€; project leader).

CLIC: Impact of climate change on the German economy through international trade; funding by BMBF (130,000€).

4NEMO: Research network for the development of new methods in energy system modeling; funding by the German Federal Ministry for Economic Affairs and Energy (BMWi).

EU Competitiveness and the 2030 framework - An industry perspective; for the European Commission (extension of 50,000€ for 2017; project coordinator in 2017).

## Prior Professional Experience

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- May-Jun. 2016 **Expert and Coordinator of EU Experts - European Union**  
May-Dec. 2015 Advisory work to European negotiators for the preparation of the Paris Agreement and its follow-up within the United Nations Framework Convention on Climate Change.
- Sept. 2014-  
Jul. 2015 **Researcher - Fondazione Eni Enrico Mattei (FEEM) and Euro-Mediterranean Center on Climate Change (CMCC)**  
Academic research on the European Union Emissions Trading Scheme (EU-ETS) and renewable energy support policies.
- Oct. 2013-  
Jul. 2014 **Analyst - DG CLIMA, European Commission**  
Bluebook program (Oct. 2013 - Feb. 2014) and interimaire (Apr.-July 2014)  
.Interactions with national parliaments on the 2030 climate and energy package.  
.Preparation of a carbon market agreement between the European Union and a third country.  
.Preparation of and participation in comitology meetings with Member States.  
.Presentation of economic literature on carbon markets.  
.Drafting of briefings for President Barroso and Commissioner Hedegaard.
- Sept. 2012-  
Aug. 2013 **Researcher and Teacher (ATER) - Université Panthéon-Sorbonne**  
.Research on the interactions between the EU-ETS and international carbon credits.  
.Teaching activities to first-year and second-year university students (mathematics, 108h of classes to 30 students).  
.Member of Master thesis committees.
- Jan.-Dec.  
2011 **Junior Researcher - Climate Policy Research Unit, European University Institute**  
Academic research on renewable energy support in the EU (focus on wind power in Denmark).
- Oct. 2009-  
Dec. 2010 **Visiting Researcher - Joint Program on the Science and Policy of Global Change and Economics Department, MIT**  
Contract with the **French Ministry of Foreign Affairs**, with funding from *Électricité de France*  
Economic analysis of the impacts to expect from carbon market linkages between the EU and emerging countries.
- Apr. 2007-  
Aug. 2008 **Project Co-leader - Thales Research and Technologies**  
Initiator and co-leader of a research project on the emerging market for information and decision support systems for crisis management and risk reduction:  
.Organization of interviews with national organizations.  
.Analysis of the technologies to develop.  
.Synthesis in a strategic plan for the development of the activity (report of 200 pages).
- Apr.-Sept.  
2006 **Research Assistant - Optics and Biosciences Laboratory, Ecole Polytechnique**  
Programming and data analysis.

*Jul.-Dec. 2003*    **Research Assistant - Hitachi Global Storage Technologies, San Jose, Etats-Unis**  
Data analysis on hard-disk surface properties.

### ***Research Exchanges***

*June 2021*        **Visiting Researcher - Paris School of Economics**

*Jan. 2015*        **Visiting Researcher - Joint Program on the Science and Policy of Global Change, MIT**

*Jul.-Aug. 2014*   **Visiting Researcher - Grantham Research Institute, LSE**

*Jan. 2013*        **Visiting Student - Joint Program on the Science and Policy of Global Change, MIT**

*2009-2010*       **Visiting Student - Department of Economics, MIT**

### ***Prior Traineeships***

*Apr.-June 2004*    **Research Assistant - Laboratory of Physics, *Ecole Normale Supérieure d'Ulm***  
Nanoplotter programming for field effect transistor manipulation.

*Jan.-March 2004*    **Research Assistant - Laboratory of Microfluidics and Nanostructures, *Ecole Supérieure de Physiques et Chimie Industrielles***  
Development of a lab on chip for protein analysis.

### **Foreign Languages and IT Skills**

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***IT Skills:*** C, Matlab, Stata, GAMS, L<sup>A</sup>T<sub>E</sub>X.

***Foreign Languages:*** French (native), English (fluent), Italian (very good), German (good), Portuguese (good).

### **Communication to the policy community and the general public**

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Organisation of the final digital workshop of the COMPLIANCE BMBF project, 3 and 10 February 2022.

*"How Does Carbon Offsetting Affect Emissions Trading Schemes?"*, ZEW news 11/12-2021.

*"Short-term impacts of carbon offsets on emissions trading schemes: lessons from the EU for the Paris Agreement"*, Blog of the Life SIDE Project, European University Institute, 14 January 2021.

*"Wie wirkt sich Klimakompensation auf den Emissionshandel aus?"*, ZEW news 01/02-2021.

Organisation of the mid-term digital workshop of the COMPLIANCE BMBF project, 19 and 27 November 2020.

Organisation of the first mid-term workshop of the InFairCom BMBF project, 27-28 January 2020.

*"Anmerkungen zum baden-württembergischen Vorhaben, die Klimaabgabe auf Universitäten (und andere nachgeordnete Behörden) auszuweiten"*, policy note to Baden-Württemberg's government on aviation emissions, with V. Huwe, T. Chatzivasileiadis and A. Wambach, 2019.

Organisation of the kick-off workshop of the InFairCom BMBF project, 4-5 February 2019.

Organisation of the kick-off workshop of the COMPLIANCE BMBF project, 9-10 January 2019.

Speaker at the side event "Setting the Paris Agreement in motion: key requirements for the implementing guidelines" organized by ZEW with the OECD and the World Resources Institute at the 24th Conference of the Parties (COP24) within the United Nations Framework Convention on Climate Change (UNFCCC) in Katowice, Poland in December 2018. Report on the event on ZEW website in January 2019.

*"Europas Industrie profitiert von internationaler Klima- und Energiepolitik"*, ZEW news 06-2018.

*Invited speaker* by the International Affairs Society of Ecole des Hautes Etudes Commerciales (HEC) to present climate policy to MBA students, June 2017.

*Invited speaker* at the event "Energie und Klimaschutz in Frankreich" organized by Institut Français and Metropolregion Rhein-Neckar, December 2016.

*Invited speaker* at the conference "The EU and China: Climate Change and Energy Diplomacy", organized by the College of Europe at the European Economic and Social Committee, Brussels, May 2nd 2016 (for policy makers, EC and Chinese officials).

## **Other Activities**

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Volunteering activities in India.

Piano (e.g. Sonata appassionata, Beethoven; Scherzo n.2, Chopin; Impromptu I, Chopin).

Updated in January 2022