

Dr. Louis-Gaëtan GIRAUDET

Centre international de recherche sur l'environnement et le développement (CIRED)
Jardin tropical – 45 bis, avenue de la Belle Gabrielle
F-94736 Nogent-sur-Marne CEDEX

Email : giraudet@centre-cired.fr
Tel : +33 (0)1 43 94 73 62

AFFILIATIONS

2013- Research Fellow, **Ecole des Ponts ParisTech**, CIRED
2009- *Ingénieur des ponts, des eaux et des forêts*

PREVIOUS POSITION

2011-12 Postdoctoral Teacher and Researcher, **Stanford University**, Precourt Energy Efficiency Center

EDUCATION

2011 *Ph.D.*, **Ecole des Ponts ParisTech**, Economics
2007 *M. Sc.*, **AgroParisTech**, Environmental Economics (*Master EDDEE*)
2007 *M. Eng.*, **AgroParisTech**, Life Sciences and Technology
2005 Erasmus exchange, **Humboldt University of Berlin**, Agricultural Economics

RESEARCH INTERESTS

Environmental and Resource Economics, Energy-Economy Modeling, Energy Efficiency in Buildings

PEER-REVIEWED PUBLICATIONS

15. **Giraudet, L.-G.**, A. Petronevich, L. Fauchoux, 2020. Differentiated green loans. *Energy Policy*, in press
14. **Giraudet, L.-G.**, Glachant, M., Nicolaï, J.-P., 2020. Selling and Saving Energy: Energy Efficiency Obligations in Liberalized Energy Markets. *The Energy Journal*, 41(S1)
13. Viguie, V., Juhel, S., Ari, T.B., Colombert, M., Ford, J.D., **Giraudet, L.G.**, Reckien, D., 2020. When adaptation increases energy demand: a systematic map of the literature. *Environmental Research Letters*, in press
12. **Giraudet, L.-G.**, 2020. Energy efficiency as a credence good: A review of informational barriers to energy savings in the building sector. *Energy Economics*, 87:104698
11. Glotin, D., C. Bourgeois, **L.-G. Giraudet**, P. Quirion, 2019. Prediction is difficult, even when it's about the past: a hindcast experiment using Res-IRF, an integrated energy-economy model. *Energy Economics*, 84(S1)
10. Bourgeois, C., **L.-G. Giraudet**, P. Quirion, 2019. Social-environmental-economic trade-offs associated with carbon-tax revenue recycling. *Proceedings of the ECEEE 2019 Summer Study*, pp.1365-1372
9. **Giraudet, L.-G.**, S. Houde, J. Maher, 2018, "Moral hazard and the energy efficiency gap: Theory and Evidence", *Journal of the Association of Environmental and Resource Economists*, 5(4):755-790
8. Nauleau, M.-L., **L.-G. Giraudet**, P. Quirion, 2015, "Energy efficiency subsidies with price-quality discrimination", *Energy Economics*, 52(S1):S53-S62
7. Branger, F., **L.-G. Giraudet**, C. Guivarch, P. Quirion, 2015, "Global sensitivity analysis of an energy-economy model of the residential building sector", *Environmental Modelling & Software*, 70:45-54
6. **Giraudet, L.-G.**, D. Finon, 2015, "European experiences with white certificate obligations: A critical review of existing evaluations", *Economics of Energy & Environmental Policy*, 4(1):113-130
5. Rohde, C., J. Rosenow, N. Eyre, **L.-G. Giraudet**, 2015, "Energy Saving Obligations: Cutting the Gordian Knot of leverage?", *Energy Efficiency*, 8(1):129-140
4. **Giraudet, L.-G.**, C. Guivarch, P. Quirion, 2012, "Exploring the potential for energy conservation in French households through hybrid modelling", *Energy Economics*, 34(2):426-445

3. **Giraudet, L.-G.**, L. Bodineau, D. Finon, 2012, "The costs and benefits of white certificates schemes", *Energy Efficiency*, 5(2):179-199
2. **Giraudet, L.-G.**, C. Guivarch, P. Quirion, 2011, "Comparing and combining energy saving policies: will proposed residential sector policies meet French official targets?", *The Energy Journal*, 32(S11):213-242
1. **Giraudet, L.-G.**, P. Quirion, 2008, "Efficiency and distributional impacts of tradable white certificates compared to taxes, subsidies and regulations", *Revue d'économie politique*, 118(6):885-914

PEER-REVIEWED PUBLICATIONS IN FRENCH

Quirion, P., **L.-G. Giraudet**, 2018. Aides publiques à l'efficacité énergétique. *Revue d'économie politique*, 128(6):1089–1100.

Giraudet, L.-G., 2015, "Qualité des travaux de rénovation, asymétries d'information et garanties de performance énergétique", *La Revue du CGDD – La rénovation thermique des logements : quels enjeux, quelles solutions ?* - pp.67-72

Giraudet, L.-G., D. Finon, 2011, "L'efficacité statique et dynamique des dispositifs de « certificats blancs »", *Revue de l'énergie*, n°602, 213-228

Giraudet, L.-G., D. Finon, P. Quirion, 2010, « Quelle efficacité des dispositifs de certificats blancs dans les politiques de maîtrise de la demande d'énergie ? », pp.73-93 in J. Carassus, B. Duplessis (eds), « Economie du développement urbain durable », Presses des Mines, Paris. ISBN: 9782911256134

OTHER PUBLICATIONS

McCoy (Dir.), 2018. Policies to finance energy efficiency: An applied welfare assessment. Final report to the European Investment Bank Institute

Giraudet, L.-G., C. Bourgeois, P. Quirion, D. Glotin, 2018. Evaluation prospective des politiques de réduction de la demande d'énergie pour le chauffage résidentiel. Report to ADEME, CGDD and ATEE.

Giraudet, L.-G., S. Houde, 2013, "Double moral hazard and the energy efficiency gap", *IAEE Energy Forum - Winter 2013* - pp.29-31

Chotard, D., M. Million, C. Berthon, S. Laurenceau, **L.-G. Giraudet**, 2011, *Analyse préliminaire de la valeur verte pour les logements*, Report to ADEME.

Giraudet, L.-G., C. Guivarch, P. Quirion, L. Penot-Antoniou, 2011, « Evaluation des mesures du Grenelle de l'Environnement sur le parc de logements », *Etudes et Documents*, n°58, Commissariat Général au Développement Durable. ISSN: 2102-4723

UNPUBLISHED WORKING PAPERS

Giraudet, L.-G., C. Guivarch, 2016, "Global warming as an asymmetric public bad", FAERE Working paper, 2016.26

Giraudet, L.-G., D. Finon, 2010. On the road to a unified market for energy efficiency : the contribution of white certificates schemes. FEEM nota di lavoro n°132.2010

HONORS

2019 *Åsgard fellowship* awarded by the Institut française de Norvège

2018 *Young Researcher Prize for Green Finance* awarded by the Banque de France (15,000€ scholarship)

2012 *Prix Paul Caseau*, PhD prize awarded by the French Academy of Technologies and Electricité de France (EDF) (10,000€ honorarium)

GRANTS

2020-23: *Socio-technical economics of Energy Performance Certificates (PREMOCLASS)*, Agence Nationale de la Recherche (ANR), with EDF R&D and Mines ParisTech – CIRED budget: 186,341€

2020-22: *Financing deep energy retrofits (FRITE)*, French Environment and Energy Management Agency (ADEME), 89,169€

2015-2020: *Modeling energy use in the French residential sector*, French General Commission for Sustainable Development (CGDD), 150,000€

2016-20: *Climate policies for urban households – Attitudes and effects*, The Swedish Research Council Formas, with the University of Gothenburg – CIRED budget: 116,162€

2015-18: *Economic analysis of energy efficiency investments*, European Investment Bank, with the London School of Economics and German Institute for Economic Research – CIRED budget: 105,000€

2015-2018: *Evaluating energy efficiency policies in the residential sector*, TOTAL S.A., 100,000€

2014-17: *The organization of the home energy retrofit industry (ECOINDUSRENO)*, French Environment and Energy Management Agency (ADEME), 91,920€

2009-10: *Integrated assessment of the French energy conservation policy portfolio in the residential sector*, French General Commission for Sustainable Development (CGDD), 29,000€

2009: *Cost-effectiveness of the French White Certificate Scheme*, French Environment and Energy Management Agency (ADEME), 5,000€

TEACHING

- 2019- Natural Resource Economics, Master course, PSIA, Sciences Po
- 2013- Lectures in Environmental Economics, Pons ParisTech, ENSTA ParisTech, AgroParisTech, Mines ParisTech
- 2011 Economics of Natural Resources, Master course (MS&E 248), MS&E Department, Stanford University

INVITED TALKS AND SEMINARS

2020: EcoPub, AgroParisTech, BETA Nancy, OFCE, LOCEAN. **2019:** Banque de France, Paris; MCC Workshop, Berlin; LCSR-Net, Rome; Jéco, Lyon; UiO, Oslo; NMBU, Ås. **2018:** ETH Zurich; CERNA Mines ParisTech; **2017:** University of Luxembourg; **2016:** GAEL/EDDEN Seminar, Grenoble; **2015:** Conference on the Economics of Energy and Climate Change, Toulouse; BP Forum on Energy and Sustainability, Madrid; PEEES, Paris; Economics for Energy Workshop, Fundacion Ramon Areces, Madrid; BE4 Workshop, WholeSEM & ETSAP, London; **2014:** "Energy Efficiency and Climate Policies", EUI meeting, Florence; FAERE meeting, Le Havre; "The Energy Efficiency Gap: Reasons and Implications", ZEW-Harvard-Duke Workshop, Mannheim; **2013:** PSE seminar, Paris; EconomiX seminar, Université Paris-X-Nanterre; **2011:** PEER, Stanford University; International Energy Agency (IEA), Paris; LEF seminar, Nancy; **2009:** Resources for the future (RFF), Washington, DC.

SELECTED CONFERENCES

2020: EAERE, FAERE (virtual). **2019:** EAERE, Manchester; Energy Conference, Toulouse; FAERE, Rennes; FAERE, PSE. **2018:** WCERE, Gothenburg; Atlantic Workshop, A Toxa; FAERE, Aix en Provence. **2017:** EAERE, Athens. **2016:** Energy Conference, Mannheim; SURED Conference, Banyuls; Atlantic Workshop, A Toxa; EAERE, Zürich; EEA, Geneva; FAERE, Bordeaux; Climate Conference, Florence. **2015:** European University, Saint Petersburg; FAERE, Toulouse; AERE, San Diego; EAERE, Helsinki; Climate Conference, Florence. **2014:** Dynamic Games, Saint-Nicolas la Chapelle; Atlantic Workshop, A Toxa; EEA, Toulouse; FAERE, Montpellier; IAEE, Rome. **2013:** Economics of Energy Efficiency, Reus; AERE, Banff; AFSE, Aix-en-Provence; EAERE, Toulouse. **2012:** USAEE, Austin; AAEA, Seattle; WEAI, San Francisco. **2011:** IEW, Stanford; AERE, Seattle. **2010:** IEW, Stockholm; IEPEC, Paris. **2009:** BECC, Washington, DC; IAEE, Vienna; The Energy Modeling Forum, Stanford and Washington, DC; EDUD, Paris. **2008:** Energy Delta Convention, Groningen; IEW, Paris.

PROFESSIONAL ACTIVITIES

Referee for *Annals of Economics and Statistics*, *Environmental Research Letters*, *Journal of Environmental Economics and Management*, *Journal of the Association of Environmental and Resource Economists*, *Journal of Environmental Planning and Management*, *The Energy Journal*, *Energy Economics*, *Annals of Economics and Statistics*, *Energy Policy*, *Ecological Economics*, *Energy Efficiency*, *Energy Research and Social Science*, *Resource and Energy Economics*, *Revue d'économie politique*.

2019- : Membre, Comité d'évaluation scientifique et technique du domaine "énergie et climat", Commissariat général au développement durable

2019- : Elected member, Executive Committee, French Association of Environmental & Resource Economists (FAERE)

2014- : Membre du Conseil de laboratoire du CIRED (nommé de 2014 à 2019 ; élu depuis 2019)

2018: Referee for the Evaluation committee of the French sovereign green bond (*OAT verte*)

2013-16: Chair, CIRED Seminar Planning Committee

2015: Co-convenor of a parallel session at the UNESCO "Our Common Future under Climate Change" Conference, Paris

MEDIA COVERAGE

- « Rénovation énergétique : qu'est-ce qui bloque ? », *France Culture*, August 16, 2020
- « La rénovation énergétique est le levier de réduction du CO2 le moins coûteux », *Le Monde*, May 8, 2015
- « Rénovation énergétique des logements : Eco-ptz et crédits d'impôt ne suffiront pas », *Le Monde*, November 25, 2011
- « Logement : les objectifs d'économie d'énergie du Grenelle hors d'atteinte », *Les Echos*, November 24, 2011
- « Pourquoi la France échoue depuis vingt ans à émettre moins de CO2 », *Mediapart*, August 27, 2010
- « Le vrai bilan des certificats d'économie d'énergie », *Entrepreneur*, November 15, 2007

ADDITIONAL INFORMATION

Languages French (native), English (fluent), German (conversational)
Citizenship French