Lucas Vivier

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RELEVANT WORK EXPERIENCE

École des Ponts ParisTech, CIRED — Paris area, France
PhD Candidate — Feb. 2021 – *June 2024* — *Current position*
Under the supervision of Louis-Gaëtan Giraudet and Laurent Lamy (ENPC, CIRED)
Title: *Forward-looking Modeling of Energy Efficiency Policy Responses in the Residential Sector*
Development of a bottom-up energy model for the residential sector Res-IRF 4.0.

International Institute for Applied System Analysis (IIASA) — Vienna, Austria
Research Fellow (YSSP Program) — June 2023 – Aug. 2023
Under the supervision of Alessio Mastrucci (IIASA)
Contribution to the bottom-up model Message-ix Buildings.

CVE NA Inc. — New-York, USA
Energy Market Analyst (international volunteering program) — Oct. 2019 – Jan. 2021
Project development : business plan, contract negotiation.

EDF, Pricing Department — Paris area, France
Quantitative Analyst (permanent position) — Dec. 2018 – Oct. 2019
Contribution to short and medium-term price forecasting models. Risk hedging.

EDF, Strategy Department — Paris, France
Energy Analyst (internship) — May. 2018 – Nov. 2018
Contribution to the corporate bottom-up optimization energy model for the long term energy planning.

Total Energy Ventures — Paris area, France
Venture Capital Analyst (internship) — Feb. 2017 – Aug. 2017
International deal flow of +50 startups and due diligence.

EDUCATION

PhD in Economics *(expected)* — Paris area, France
Ecole des Ponts ParisTech — 2021 – *2024*

Bachelor and MSc in Energy Engineering — Paris area, France
Paris Saclay University, Ecole CentraleSupelec — 2014 – 2018
Exchange Program at Tongji University, Shanghaï, China (6 months).

MSc in Energy Economics — Paris area, France
Paris Saclay University, IFP School — 2017 – 2018
Master thesis on Ancillary Services in Electricity system optimization models.

PUBLICATIONS & WORK IN PROGRESS

- C. Escribe*, **L. Vivier***, L.-G. Giraudet, P. Quirion, 2023. How to Allocate Mitigation Efforts Between Home Insulation, Fuel Switch and Fuel Decarbonization? Insights from the French Residential Sector. Environmental Research Letters. 10.1088/1748-9326/ad3a7f *co-first author.
- **L. Vivier** and L.-G. Giraudet. Energy efficiency policy in an n-th best world: Assessing the implementation gap**,** Working paper. hal-04510798
- C. Escribe* and **L. Vivier***. Banning new gas boilers as a hedge against the limited availability of renewable gas supply. Working paper. hal-04538870. *co-first author.
- **L. Vivier** and A. Mastrucci, working paper. Meeting climate target with realistic demand-side policies in the residential sector in the EU-27. Pre-publication report received Levien Award. In progress.

RESEARCH REPORT

- **L. Vivier** and L.-G. Giraudet, 2024. Analyse socio-économique de la rénovation énergétique des logements*.* Focus Conseil d'Analyse Économique.
- L.-G. Giraudet **L. Vivier**, 2022. La difficile quantification de la place du bâtiment dans la décarbonation. Transitions. Les nouvelles Annales des Ponts et Chaussées, Ecole des Ponts ParisTech et Presses des Ponts.
- Aussilloux, V., F. Chabrol, L.-G. Giraudet, **L. Vivier**, 2021. Quelle rentabilité économique pour les rénovations énergétiques des logements ? France Stratégie, Note d'analyse, n°104.

GRANTS AND AWARDS

- Levien Award for outstanding early-career scientists for project "Decarbonizing the EU Residential Sector: A Modelling Assessment of Current Policies and Future Strategies" part of the 2023 YSSP
- Award of the Palladio Foundation 2022 scholarship (5,000€)
- Award of the Palladio Foundation 2021 scholarship (10,000€)
- Full-tuition scholarship for best applicant to 2022 Discrete Choice Analysis course – M. Ben-Akiva (MIT) and M. Bierlaire (EPFL) (5,000€)

TEACHING

MSc Energy Efficiency Economics lecture (3 hours lecture) given at ENSTA Paris Tech (2022-2023) and École des Ponts ParisTech (2023).	2022 - 2023
MSc Forward-Looking Modelling project supervision (10 hours), Paris Saclay Research intern supervision: Louise Asselin (M2), Simon Keller (M1)	2022

SKILLS

Language: English – Full professional proficiency, French – Native proficiency.
Computer: Proficient in programming languages (especially Python and R).