

Clément Leblanc

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Education

Ph.D. in Economics

October 2019 – June 2023

Ecole Nationale des Ponts et Chaussées (ENPC)

Paris Region, France

Centre International de Recherche sur l'Environnement et le Développement (CIRED)

Title: Microeconomic analysis of subsidy mechanisms for power generation from wind and solar sources

Supervisors: Laurent LAMY (ENPC - CIRED), Philippe QUIRION (CNRS - CIRED)

Summary: Subsidies to renewable electricity production are one of the main policy instruments used by governments to promote renewable technology deployment. There is great diversity in these subsidy mechanisms with respect both to the design of contracts through which governments subsidize electricity producers and to the design of auctions through which projects are selected. For an optimal development of renewable electricity production at a limited cost, two targets should be pursued: A. Encouraging the most efficient investments in renewable capacities, and B. Limiting the risk borne by electricity producers. The thesis aims to provide an evaluation of several subsidy mechanisms based on microeconomic modeling of the behavior of investors to shed light on good practices and faulty features in their design.

Classes taken: Summer School on Economic Foundations for Energy and Climate Policies (UC3M - EnergyEcoLab, Madrid), Matching and Auction Theory (Paris School of Economics), Economics of Public Intervention and introduction to Mechanism Design (Paris School of Economics), Renewable Energies (Dauphine University)

Grant: French Agency for Ecological Transition (ADEME) Ph.D. Grant – 2019-2022

Université Paris-Saclay

2015 – 2016

MSc Economics of Environment, Energy and Transport

Paris Region, France

Specialization: Prospective Modelling for Economics, Energy and Environment. **Other Topics:** Macroeconomics and microeconomics focused on environmental topics, such as: climate change and growth, natural resources management, evaluation of environmental policies, monetary valuation of ecosystem services and externalities, risk and uncertainty in economics.

ENSAE

2012 – 2015

Engineering degree – Statistics and Economics

Paris Region, France

Topics: Data analysis, Econometrics, Statistics, Time Series, Macroeconomics, Microeconomics and Game Theory, Evaluation of public policy, Sociology, Environmental Economics, Development Economics. M1 thesis: Econometric study on the long term effects of childhood hunger on cognitive abilities.

Preparatory Classes in Literature and Social Sciences

2010 – 2012

Undergraduate intensive course (Math, Social Sciences, History, Philosophy, Literature)

Bordeaux, France

Research work in progress

- In revision* "Pitfalls of insuring production risks", joint work with Laurent Lamy
- In progress* "Comparing the social benefits from variable renewable energy projects"
- In progress* "Contract design for renewable electricity subsidies: An incentive-risk trade-off"
- In progress* Distributional impacts of the 2021-2023 electricity crisis and policy responses in Spain, joint work with Natalia Fabra
- In progress* "Renewable electricity support in Europe: the trade-off between risk and incentives under sliding premium schemes", joint work with Laurent Lamy

Oral Presentations

- 2023** EEA-ESEM Annual Conference; ZEW Eleventh Mannheim Conference on Energy and the Environment ; FAERE (French Association of Environmental and Resources Economics) Annual Conference; Toulouse School of Economics Energy Workshop; AFSE (French Economics Association) Annual Conference; Chair European Electricity Markets (CEEM, Dauphine) PhD Conference
- 2022** FAERE (French Association of Environmental and Resources Economics) Annual Conference; Society for Cost-Benefits Analysis Annual Conference; Institut Louis Bachelier Financial Risks International Forum; E4C (Center on Energy and Climate Change) Seminar; French Energy Regulatory Commission (CRE), Presentation to staff members
- 2021** EEA-ESEM Annual Conference; EAERE Annual Conference; UC3M/EnergyEcoLab Summer School on Economic Foundations for Energy and Climate Policies; IAEE Annual Conference

Teaching

- 2021-23** ENPC — Cost-Benefits Analysis (L3) – Tutorial Classes
- 2020-23** ENPC — Supervision of students' projects (Electricity Economics)
- 2020** Université Gustave Eiffel — Macroeconomics (L2) – Tutorial Classes

Work Experience

UC3M, EnergyEcoLab September 2023 – Ongoing
Post-Doctoral Researcher Madrid, Spain
Researcher and research assistant for Natalia Fabra, head of the EnergyEcoLab research team.

I Care Nov. 2016 – July 2019
Consulting company in the environmental field - Economics consultant Paris, France
Consultant in charge of studies related to environmental economics (macroeconomic impact of environmental transition, valuation of ecosystem services and externalities) and environmental public policy evaluation, mostly for the public sector.

Selected projects

- (ADEME / Ministry of Environment) Benchmark of existing models and recommendations for a Macroeconomic Modelling of the Circular Economy in France.
- (ADEME / Ministry of Environment) Critical analysis of the French National Low Carbon Strategy (SNBC), proposal and ex-ante evaluation of complementary measures to achieve the 2030 objectives.
- (Various local authorities) Definition of energy transition scenarios and evaluation of their impact on employment and economic growth

Enerdata April – Sept. 2016
Energy consulting company – Consultant (Intern) Grenoble, France
Modelling of heavy industry's energy consumption to fill in missing data in the company's global panel data.

Kyushu University May – August 2015
Research Assistant Fukuoka, Japan
Econometric study on the impact of energy taxes on economic growth based on cross-country panel data, in collaboration with Kong-Joo Shin and Shunsuke Managi.

OECD, Environment Directorate May – August 2015
Intern, then External Consultant Paris, France
Econometric study providing evidence of spillover effects on households from incentives to adopt environmentally-friendly behavior, based on survey data from 11 OECD member-countries.

Miscellaneous

Programming: R, Python, GAMS; **Languages:** French (native), English (fluent), Spanish (Basic)