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## EDUCATION

2018 - *Ph.D. in Economics* ("Quantitative assessment of electricity market designs: illustrations of short-term and long-term dynamics"), Mines Paristech, France.

2013 - *MSc in Economics* (specialized in market design), École supérieure d'électricité (Supélec), France.

2013 - *MSc in Energy and Power Systems*, École supérieure d'électricité (Supélec), France.

## PROFESSIONAL EXPERIENCE

2022 – Present, *Senior Economist*, Compass Lexecon, Paris, France

2019 – 2022, *Economist*, Compass Lexecon, Paris, France

2018 – 2019, *Senior Analyst*, Compass Lexecon, Paris, France

2013 – 2018, *Economist*, Microeconomix (French economic consulting firm) - Deloitte, Energy practice, Paris, France

## SELECTED CONSULTING EXPERIENCE

### Modelling

- Power adequacy analysis in Western Balkans countries  
Detailed analysis of WB6 power system adequacy to inform potential capacity mechanism design. This involved a detailed power sector modelling assessing the economic profitability of existing and future capacity.
- Modelling and economic impact assessment of different scenarios of the European energy sector involving deep decarbonisation  
We modelled the evolution of the power energy sector in Europe up to 2050 in the context of full decarbonisation of the European economy. It involved a long-term optimization of investments and of flexible capacity (batteries, power-to-gas-to-power...). A cost assessment was also performed to compared scenarios.
- Flexibility outlooks and market design stakes for the professional association France Hydro Electricité  
Outlooks for the evolution of flexibility needs to 2050 in two contrasted long-term scenarios towards decarbonisation, using our hourly stochastic pan-European modelling. Analysis of the functioning of storage capacity (batteries, pumped-hydro, power-to-gas-to-power) in 2050 and the associated remuneration scheme.
- Outlook on the role of nuclear in the French power system to 2050 for the French professional nuclear association (SFEN)  
We used our in-house modelling capabilities to provide outlooks on the role of nuclear power in the French power system to 2050 for four contrasted scenarios. This highlighted the role of insurance of existing and future nuclear capacities to decarbonize the French and European power mixes at minimal cost.
- Analysis of the Australian National Electricity Market (NEM) of the development of new interconnectors, and the upgrading of existing interstate links  
Through modelling of NEM for the next 25 years, we provided granular view of the different investment options of interconnectors, including capacity/generation mix, power price, interconnection, consumer and producer welfare, and social benefits.
- Empirical study of the carbon content of electricity in the central west European region  
The study was used in the negotiation with the French State and the European Commission to evaluate the state aid associated with the compensation for energy intensive users for the indirect costs associated with carbon

pricing. It involved a projected evolution of emission factors over the period 2019-25 using our dispatch model under different outlook scenarios.

### Arbitration

- **Damage assessment of nuclear power plants unavailability for a major European producer**  
In the context of an arbitration procedure between the client and a major power plant provider, we were hired as independent experts to provide a computation of the costs and profit losses induced by unavailability. We defined a “but for” scenario and analysed the power producer’s hedging strategies and portfolio components to determine the would-be economic value of the lost power, therefore building with the client a tailored portfolio model. We assisted the client during the whole procedure, drafting 2 expert reports for the arbitration court.
- **Damage assessment of hydro power plants unavailability for a European producer**  
FTI-CL Energy was engaged as a quantum expert in an arbitration between the producer of hydropower equipment and a European hydro power operator. We have responded to the claimant’s quantum expert report providing an alternative calculation of damages that could have arisen from the alleged underperformance of the hydro units provided by the respondent due to loss of profits and the cost of additional works.

### Regulation/State Aid

- **Capacity market implementation in Greece**  
Supported a major Greek utility in the design of a capacity market and the impacts of implementation details on its business.
- **Capacity market implementation in Bulgaria**  
Supported the Bulgarian TSO in the design of a capacity market. We performed a benchmarking study on European CRM implementations details and assessed the relevant approaches and parameters in the Bulgarian context.
- **Methodology for calculation of the Value of Lost Load (VoLL)**  
We supported ENTSO-E in the development of the methodology for calculation of the Value of Lost Load to apply for adequacy use. This included a critical review of main existing methodologies and then a proposition for an improved methodology suited for adequacy use.
- **Methodology to determine the (i) Cost of New Entry (CoNE) and (ii) the reliability standards**  
We support ENTSO-E in the development and drafting of the methodology to determine the (i) Cost of New Entry (CoNE) and (ii) the reliability standards, which will become mandatory as part of the implementation of a capacity mechanism, as required by the revised Electricity Regulation.

## SELECTED PUBLICATIONS

### Publications in journals and books

“The electricity generation adequacy problem: Assessing dynamic effects of capacity remuneration mechanisms”. With Vincent Rious and Marcelo Saguan. *Energy Policy* 91 113–127 (2016)

### Conference papers

“Review of models for power exchanges with non-convex technical constraints for investment decisions”. With Vincent Rious and Marcelo Saguan. 13th International conference on European Energy Market in Porto, 6th-9th June 2016.

“Assessing dynamic effects of capacity remuneration mechanisms on generation investment: comparison between strategic reserve mechanism and capacity market”. With Vincent Rious and Marcelo Saguan. 14th IAEE European Energy Conference in Rome (28-31 October 2014) and the Energy Conference 2014 in Montpellier (20-21 November 2014)

## LANGUAGE SKILLS

- French (Native)
- English (Fluent)

