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EDUCATION

2019, *M.Sc. Political Economy*, University of Konstanz and Norwegian School of Economics
2017, *B.A. Philosophy & Economics*, University of Bayreuth and EDHEC Business School

PROFESSIONAL EXPERIENCE

2023 – Present, *Economist*, Compass Lexecon, Berlin
2022 - 2023, *Senior Analyst*, Compass Lexecon, Berlin
2019 - 2022, *Consultant*, DNV, Bonn

SELECTED CONSULTING EXPERIENCE

Regulation, market, and support design

- **European Transmission System Operator: Economic study on market design to maintain security of supply in the power system of a northern European country**
- **European Transmission System Operator: Advise on market design options in a power system of a central European country**
- **Agora Energiewende: Analysis of policy measures for supporting household customers in times of high electricity prices.** Evaluation of wholesale and retail interventions in power markets against (i) achieving policy targets, (ii) their economic efficiency and (iii) distortions introduced; providing a review of measures introduced across the EU and globally and international case-studies on particular measures implemented.
- **Swiss Federal Office for Energy (BFE): Hydrogen support strategy.** Development of a framework for the support of hydrogen and hydrogen derivative use cases in Switzerland. Analysis of the economics of hydrogen production and use as feedstock as well as for electricity and heat production and in the mobility sector based on modelling of the European hydrogen market. Assessment of commercial bottlenecks (inter alia cost gaps per use case) and a set of regulatory measures to overcome them. Recommendation for regulatory interventions in the mid and longer-term to build-up the Swiss hydrogen sector in line with the targets outlined in the BFE's Swiss energy system scenario ("Energie Perspektiven 2050+")
- **Institut Luxembourgeois de Régulation (ILR): Future-proof tariff design:** The project comprised the conceptual assessment of different potential tariff designs for electricity distribution systems in Luxembourg. For this purpose, two sets of criteria – economic and feasibility – have been identified and discussed with stakeholders; potential remedies to downsides of the different tariff designs have been developed.
- **ACER: Methodology development and pilot study on power market characteristics:** Conceptualized a methodology to assess barriers to efficient price formation and the ease of market entry for small players and new players for European power markets for ACER. The project further included the development of an excel-based calculation tool as well as the undertaking of a pilot study.
- **International utility: Advise on German network regulation:** Providing an overview and elaborating on various requested aspects of the German electricity network regulation.
- **ERRA: Course on incentive regulation in electricity networks:** Prepared and held a lecture organised by ERRA on efficiency analysis in a course on incentive regulation.

- **ACM: Study on an estimation method for the additional efficient operating expenditure of the Dutch TSO's offshore grid:** Study to develop and evaluate different methods for estimating the additional (incremental) efficient operating expenditure that TenneT will incur with the operation of existing and the commissioning of new parts of the offshore grid during the regulatory period 2022 - 2026.
- **Group of TSOs and a shipper Expert opinion on economic suitability of German gas transmission network tariffs:** Assessment of the economic properties and the potential economic effects of the REGENT ordinances on cost reflectivity of transmission charges, investment incentives, market liquidity and competition. Furthermore, the study provides possible alternative reference price methods for establishment of gas transmission charges.

Investment support and Valuation

- **International institutional investor: Buy-side regulatory and market due diligence for an interest a large German offshore wind park.** Analysis of the power market and regulatory framework in Germany and the impact on offshore wind installations; developing power price projections for Germany up until 2050 in different scenarios incl. sensitivity analysis; reviewing power commercialisation arrangements and potential additional revenue options
- **European institutional investor: Buy-side regulatory and commercial due diligence for an interest in the Austrian multi-utility Energie Steiermark:** Analysing the regulatory framework and the company's business plan; providing a market outlook based on own modelling; evaluating risks and underlying assumption in the valuation model in all core business segments
- **International Investor: Investment support for a interconnector development between France, Switzerland and Italy:** Economic and regulatory support in the pre-feasibility phase for a potential interconnector development project between France, Switzerland and Italy.
- **European project developer: Sell side commercial due diligence for a group of electrolysers in development in Norway and South America**
- **International utility: Regulatory due diligence for a gas transmission system operator in Germany**
- **Commercial due diligence for a wind park in Spain**

Business needs and strategy

- **Original Equipment Manufacturer: Assessment of market conformity for a Power Purchase Agreement**
- **Wiener Netze: Measures to reduce electricity DSO investments for energy system decarbonisation:** Modelling-based identification and impact quantification of measures (technological and regulatory) to reduce investment needs in the electricity distribution grid; assessment of implementation steps and implementation hurdles; deduction of measures with the best strategic fit.
- **confidential: Heat pump business case in the AS market:** Quantitative business case analysis of the use of heat pumps in the German ancillary services market.
- **Wiener Netze: Decarbonisation impact on urban energy distribution grids.** Modelling required changes to the gas, electricity and district heating grids, estimated costs and investments for the transformation, identified techno-economic and regulatory transformation hurdles and – where possible – pointed out potential mitigation measures
- **Inter-American Development Bank: Pre-Feasibility Study for a Hydrogen Export Project in Chile:** The study to produced key information and recommendations for public and private stakeholders, including government authorities, on the optimal technologies, infrastructure, timings, sizing, location, and business models that would altogether englobe a new export terminal for hydrogen via maritime transportation in Chile.
- **Original Equipment Manufacturer: Detailed market analyses based on DNV's Energy Transition Outlook**
- **RWE: Technology scouting for electrification:** Identification and techno-economic assessment of the potential to electrify industrial heat demand in Germany, the Netherlands and Great Britain. The project included both the identification of technological options and their respective barriers as well as the economic requirements. The outcome of the project comprised a forecast for additional electricity demand due to electrification of industrial heat.
- **Alliander Netz Heinsberg: DSO Investment needs estimation:** Bottom-up modelling of mid-term investment needs of a DSO that may be attributed to electrification and the energy transition. The identified drivers for additional investment needs were a) RES installations, b) installation of heat pumps, c) development of electric vehicle charging infrastructure.



- **Original Equipment Manufacturer: Market analysis for future inverter needs.** In the study, future demand was estimated for different geographical regions and use cases such as solar PV farms and electrolysers. The analysis was based on and extended existing global energy system studies.
- **Terranets bw: Hydrogen roll-out strategy:** The project comprised the modelling of future expected hydrogen demand in southwest Germany for the sectors heating, industry, mobility, and utilities. Necessary adaptations to the transmission grid and business options were identified for terranets bw and discussed with senior management.
- **International logistics company: Market entry study for hydrogen for a transport and logistics company**

LANGUAGE SKILLS

- German – Native
- English – Fluent
- French – Intermediate

