

22, Place de la Madeleine
75008 Paris
France

Friedrichstrasse 88
10117 Berlin
Germany

T: +33 1 53 05 36 51
F: +33 7 61 93 93 46
gaue@compasslexecon.com

EDUCATION

2005, *M.Sc. in Mechanical & Industrial Engineering*, Vienna University of Technology, Vienna, Austria
2019, *MBA*, Warwick Business School, Coventry, UK

CERTIFICATIONS

2020, *Chartered Financial Analyst (CFA)*, CFA Institute
2016, *Energy Risk Professional (ERP)* certification, Global Association of Risk Professionals

PROFESSIONAL EXPERIENCE

2020 – Present, *Senior Economist*, Compass Lexecon, Paris & Berlin
2005 – 2020, *Managing Consultant*, Wagner, Elbling & Company, Vienna

SELECTED CONSULTING EXPERIENCE

Energy asset strategy and decarbonisation

- Various EU district heating operators: Modelling based investment & decarbonisation strategy development: Comparative performance analysis of various long-term investment strategies in district-heating production assets (e.g. fossil/geothermal/biomass/heat-pumps and heat storages) under energy price uncertainty and pressure to decarbonise – with a particular focus on competition against individual heat generation by end-users; developing and parametrisation of a comprehensive DH system model with accompanying individual heating, regulatory and financial model in Excel/VBA/Python
- Austrian utility: Strategic analysis of heating market legislation. Analysing the 2020 government legislation outline for energy system decarbonisation against (a) existing legislation (inter alia building codes and residential building subsidy schemes) and (b) the current strategic plan of a utility operating a gas, electricity and district heat retail business; identifying potential policy implementation measures more in line with the strategy as a basis for lobbying efforts.
- Austrian gas DSO: Quantitative decision support for a network reinvestment decision. Quantitative modelling support for a DSO considering the reinvestment or shut down of a remote part of its gas distribution network.

- Austrian utility: Heat market decarbonisation strategy. Comprehensive and detailed quantitative scenario analysis for selecting a long-term investment strategy for gas/electricity distribution grids and local heat networks resulting in attractive operator returns and acceptable end-user costs under energy price uncertainty and decarbonisation pressure
- Austrian utility: Seasonal heat storage investment appraisal: Quantitative modelling support for an investment decision regarding a large seasonal heat storage to be included in a district heating system
- Austrian utility: Supporting a CHP shut-down decision. Quantitative modelling analysis regarding the potential shut-down of a large gas-fired combined heat and power (CHP) plant supplying a district heating system
- Central European gas storage operator: Developing fast-cycle storage products. Developing (under various regulatory restrictions) gas storage products for a fast-cycle gas storage addressing both gas retailers and gas network operators
- Gas infrastructure investor: Regulatory due diligence of a European gas TSO. Analysis of regulatory cost determination and tariffing principles and identifying resulting risks (inter alia capacity sales risk, risks from efficiency requirements)
- German gas company: Valuation of German gas storage assets. Sell-side valuation of a bundle of physical and contractual assets in connection with an underground gas storage installation
- German gas TSO: Mid-term strategy. Development of a business strategy for a German gas TSO facing decarbonisation threats to its business model incl. M&A strategies to make-up core-business declines
- German gas TSO: Biogas connection agreements & process. Developing the commercial and technical content as well as the process for connecting biogas plants to a gas network

Regulation, market model development and market model implementation

- The Swiss gas industry: Development of the Swiss gas market model. Development of a comprehensive market model specifying inter alia market institutions (incl. business plans), network access (capacity products & allocation, tariffing) and physical/commercial balancing
- Gas company in an EFTA country: 2nd energy package implementation study. Concept study and roadmap to implement the 2nd EU common gas market legislative package in an EFTA country
- Various gas sector clients: Industry opinions to legislative or regulatory proposals for the gas sector. Developing and aligning opinions – partly underpinned by quantitative analyses – in various cases and in several jurisdictions; notable cases relate to gas network tariffs and balancing

Energy procurement, retailing, portfolio & risk management

- Central European multi-utility: Energy procurement and risk management methodologies. supporting the design & implementation of a portfolio/risk management and transfer pricing logic (between trading- and retail- as well as asset management divisions) for a large multi-asset (LTCs, storage, power plants ...) and multi-commodity (gas, power, district-heat) utility
- Swiss utility: Mid-term retail strategy. Developing and evaluating comprehensive options for gas retail strategies in a liberalising market incl. a specification of resources and know-how required as well as a fitting overhaul of the subsidiary structure
- Swiss utility: Multi-market gas sourcing optimisation. Comparative quantitative analyses of gas procurement strategies from alternative liquid EU gas trading hubs (including supply, demand and capacity utilisation outlooks)
- Central European multi-utility: Analysis of gas security of supply. Client-specific study on the security of gas supply for a dual-fuel CHP-plant producing district heat and evaluating risks of switching to gas only (incl. quantitative analyses)
- Several EU-based clients: Market entry studies. Quantitative market entry analysis and preparation of business plans for gas wholesalers and retailers
- Several clients: long term gas supply contract arbitrations: Supporting several gas LTC arbitrations with quantitative analyses of central and south European wholesale and retail markets for gas and competing fuels
- Austrian utility: retail product price calculation methodology: Development of methodologies and a tool for the calculation of full costs of gas retail products for industrial end-users indexed against a bundle of gas futures



Operations and organisation

- EU4Energy: Target operating model for an Energy Community gas TSO: Developing a target operating model for a newly established gas TSO based on Energy Community requirements & EU best practice; authored the comprehensive business process model (incl. KPIs & outsourcing recommendation) an organisational structure and an implementation roadmap; named key expert for gas TSO operations.
- German Gas TSO: Set-up of a German gas market area. Conceptual, contractual and processual setup of a multi-TSO gas market area including the establishment of a market area manager and a virtual trading point as well as development of inter and intra-TSO operational processes
- German gas DSOs. Standard load profile implementation: Support the implementation and subsequent optimisation of standardised load profiles assignment for gas balancing
- Central European utility: Process-based re-organisation. Supporting the reorganisation of responsibilities within a large (30+ employees) energy economics department of multi-utility (gas, power, district-heating) based on comprehensive analyses of processes and internal/external information exchanges.
- Various clients: Optimisation and mapping of core energy operations processes. Several large projects to design (inter alia using BPMN) & optimise logistics, procurement and retail related business processes and support the implementation of supporting IT systems

IT and data management

- USAID: Data management strategy for an Energy Community gas TSO. Analyse the current state of energy data management (metering, allocation and balancing data) and recommend a target state compliant with EU/EnC legislation and EU best practice
- Various clients: IT requirements specification: Developing IT requirement specification for TSOs' and energy retailers' operational IT systems (gas logistics & ETRM systems)

Seminars

- Various clients: Seminars for energy industry professionals. Holding in-house and public seminars for energy industry professionals inter alia on gas logistics, gas procurement and energy portfolio management

LANGUAGE SKILLS

- German (native)
- English (fluent)
- French (intermediate)