

Bogdan Oprescu

Technical Adviser

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Languages: English, French and Romanian



Expertise

- Market Investigations
- Public Policy and Impact Assessment
- Regulation
- Sustainability and Climate Change

Sectors

- Energy

Profile

Bogdan leads Oxera's energy modelling practice using PLEXOS and Antares. The main focus of the work is analysing long-term investments (e.g. profitability, viability, impacts of regulation), economic dispatch and unit commitment (e.g. merit order, energy mix, portfolio behaviour), dispatching renewable energy sources and hydro-generation.

Before joining Oxera, Bogdan worked as a researcher for the Joint Research Centre (JRC) of the European Commission in Petten, The Netherlands, and as a market modelling specialist for the European Network of Transmission System Operators for Electricity (ENTSO-E) in Brussels.

Selected professional experience

- Led the modelling efforts analysing the impact of investment in new nuclear generation in the Czech Republic (2021)
- Provided expert advice on a project related to the coal phase-out in Germany (2020)
- Led the market modelling and network modelling teams of ENTSO-E in defining and preparing for the second Bidding Zone Review (2019)
- Implemented nodal modelling of Central Western Europe for a focus paper assessing market design options in Europe—'Market Design 2030' (2019)
- Defined the structure and data needs of the Pan-European Market Modelling DataBase (PEMMDB) that is used for ENTSO-E reports: 'Ten Year Network Development Plan' (TYNDP), 'Mid-Term Adequacy report' (MAF), 'Seasonal Outlook' (2018)

- Analysed outputs, reviewed the energy modelling (in PLEXOS) and performed analysis for the site acceptance test of the Bidding Zone Review #1 (2017)
- Implemented a zonal model in GAMS and Python to evaluate the revenue streams of storage facilities in Europe and Italy—unit commitment and economic dispatch (2016)

Selected publications

- ENTSO-E (2019), 'Vision on Market Design and System Operation towards 2030'.
- ENTSO-E (2019), 'Bidding Zone review methodology, assumptions and configurations'.
- ENTSO-E (2017), 'Mid-Term Adequacy Forecast'.

Qualifications

- Master's in Economics and Management of Network Industries, Universidad Pontificia de Comillas, Madrid
- Master's in Economics and Management of Network Industries, Université de Paris Sud XI, Paris
- Bachelor's in Economics, University of Craiova, Romania
- Bachelor's in Automation, University of Craiova, Romania