

# Optimization Methods for Gas and Power Markets: Theory and Cases (Applied Quantitative Finance)

Enrico Edoli, Stefano Fiorenzani, Tiziano Vargiolu



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As power and gas markets are becoming more and more mature and globally competitive, the importance of reaching maximum potential economic efficiency is fundamental in all the sectors of the value chain: investments selection, asset optimization and trading and sales.

This book presents both theoretical elements and practical examples for solving energy optimization issues in gas and power markets. Starting with the theoretical underpinnings and the basic business and economics of power and gas optimization, it quickly moves on to review the mathematical optimization problems inherent to the industry, and their solutions - all supported with examples from the energy sector. Coverage ranges from very long-term (and capital intensive) optimization problems such as investments valuation/diversification, to asset (gas and power) optimization/hedging problems, to pure trading decisions.

This is a valuable, quantitative guide to the technicalities of optimization methodologies in gas and power markets, and will be of interest to practitioners in the energy industry and financial sector who work in trading, quantitative analysis and energy risk modeling.

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