Special Issue

Financial Simulation and Forecasting in Energy Markets

Message from the Guest Editor

This Special Issue invites contributions that examine financial dynamics across electricity, oil, natural gas, and emerging energy sectors. Topics include modeling energy price behavior, applications in risk management, forecasting prices, and fundamentals. Emphasis is placed on AI, advanced quantitative methodologies, and their applications to real-world energy financial challenges. Key areas of interest include the following:

- Financial and strategic risk management in energy markets.
- Price modeling and forecasting for electricity, oil, gas, and renewable energy.
- The impact of renewable energy integration.
- Investment strategies and infrastructure financing in energy systems.
- Policy impacts on energy pricing, including carbon markets and ESG considerations.
- Quantitative methods for energy market analysis using advanced software (e.g., MATLAB, R, Python, and PLEXOS).

This Special Issue provides a platform for academics, industry practitioners, and policymakers to advance the understanding of financial risk, market forecasting, and strategic financial planning in the energy sector.

Guest Editor

Dr. Petros Theodorou

1. School of Business, Athens University of Economics & Business, 10434 Athens, Greece
2. Public Power Corporation, Panepistimiou 68, 10431 Athens, Greece

Deadline for manuscript submissions

30 November 2025

Journal of Risk and Financial Management

an Open Access Journal by MDPI

CiteScore 5.0

mdpi.com/si/234954

Journal of Risk and Financial Management
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jrfm@mdpi.com

mdpi.com/journal/jrfm

Journal of Risk and Financial Management

an Open Access Journal by MDPI

CiteScore 5.0

mdpi.com/journal/jrfm

MDPI

About the Journal

Message from the Editor-in-Chief

Researchers are most welcome to contribute original research articles or comprehensive review papers for consideration and publication in *Journal of Risk and Financial Management* (*JRFM*), an on-line, open access journal. *JRFM* adheres to rigorous peer-review as well as editorial processes, and publishes high quality manuscripts that address theoretical, practical and empirical issues in analysing real life financial data. The goal of *JRFM* is to enable rapid dissemination of high impact research to the scientific community.

Editor-in-Chief

Prof. Dr. Thanasis Stengos
Department of Economics and Finance, University of Guelph, Guelph, ON N1G 2W1, Canada

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, EconBiz, EconLit, RePEc, and other databases.

Journal Rank:

CiteScore - Q1 (Business, Management and Accounting (miscellaneous))