

## Special Issue

# The Energy Consumption and Load Forecasting Challenges

### Message from the Guest Editors

This Special Issue aims to group all the alternative paradigms that are being developed to go beyond the current energy forecasting modeling systems and prices. These include, but not exclusively:

- Energy and load Forecasting
- Demand-side management
- Heuristic techniques;
- Optimization algorithms;
- Neural networks and Deep learning;
- Support vector machine;
- Fuzzy systems and genetic algorithm;
- Hybrid methods with AI.

---

### Guest Editors

Prof. Dr. Filipe Rodrigues

1. Instituto Superior de Engenharia de Lisboa, Instituto Politécnico de Lisboa, Rua Conselheiro Emídio Navarro, 1959-007 Lisboa, Portugal
2. IDMEC–Instituto de Engenharia Mecânica, Instituto Superior Técnico, Universidade de Lisboa, Av. Rovisco Pais, 1049-001 Lisboa, Portugal

Prof. Dr. João M. F. Calado

IDMEC/ISEL - Instituto Superior de Engenharia de Lisboa, Departamento de Engenharia Mecânica, Instituto Politécnico de Lisboa, 1500-310 Lisboa, Portugal

---

### Deadline for manuscript submissions

closed (22 June 2023)



## Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/si/65348](https://mdpi.com/si/65348)

*Energies*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[energies@mdpi.com](mailto:energies@mdpi.com)

[mdpi.com/journal/  
energies](https://mdpi.com/journal/energies)





# Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/journal/  
energies](https://mdpi.com/journal/energies)



## About the Journal

### Message from the Editor-in-Chief

*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

---

### Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University  
Niccolò Cusano, 00166 Roma, Italy

---

### Author Benefits

#### Open Access:

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

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

CiteScore - Q1 (Control and Optimization)