

## Special Issue

# Energy Forecasting in the Era of Smart Urbanization

### Message from the Guest Editors

The increased pace of urbanization, combined with rapid advancements in renewable energy and the transition towards electrified vehicles and smart infrastructure, has created numerous challenges in managing modern energy systems. Accurate energy loads and generation forecasting are crucial to ensure reliability and stability in sustainable smart city environments. This Special Issue aims to present and discuss the most recent advances in energy forecasting for smart urban environments, bringing together contributions from academia and industry that explore both theoretical and applied aspects. Topics of interest for publication include, but are not limited to, the following:

- Energy load forecasting in urban environments (electricity, heating, cooling, etc.).
- Renewable energy generation forecasting in smart infrastructure (solar, wind, and hybrid).
- Machine and deep learning modeling for energy time series prediction.
- Explainable AI and interpretable forecasting approaches.
- Foundation models.
- Electric vehicle charging demand prediction.
- Energy market forecasting.
- Non-intrusive load/generation monitoring.
- Benchmarking frameworks and reproducible forecasting studies.

---

### Guest Editors

Dr. Aristeidis Mystakidis

1. School of Science & Technology, International Hellenic University, 57001 Thessaloniki, Greece

2. Centre for Research and Technology-Hellas, Information Technologies Institute, 57001 Thessaloniki, Greece

Prof. Dr. Christos Tjortjis

School of Science & Technology, International Hellenic University, 57400 Thessaloniki, Greece

---

### Deadline for manuscript submissions

25 August 2026



## Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/si/254678](https://mdpi.com/si/254678)

*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)