

## Special Issue

# Machine Learning for Energy Load Forecasting

### Message from the Guest Editor

This Special Issue on "*Machine Learning for Energy Load Forecasting*" in *Energies* seeks to showcase the latest advancements in the application of machine learning (ML) techniques to predict energy demands, a critical component for enhancing the sustainability and efficiency of global energy systems. This edition calls for papers that break new ground in ML methodologies, tackle the intricacies of energy forecasting, and demonstrate the practical application of these technologies in real-world settings. The scope of this Special Issue encompasses a wide array of topics, including the development of innovative ML algorithms for precise energy load forecasting, strategies for the integration of renewable energy sources using predictive models, and the exploration of deep learning techniques to decode complex energy consumption patterns. Contributions that provide a comparative analysis of ML approaches or offer case studies illustrating the implementation challenges and successes in smart grids, sustainable urban environments, and energy-efficient infrastructure are particularly encouraged.

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### Guest Editor

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### Deadline for manuscript submissions

15 August 2025



## Energies

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## 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.

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### Editor-in-Chief

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