

Special Issue

Renewable Energy Integration into Power Grids and Buildings

Message from the Guest Editor

This Special Issue aims at acting as a bridge between research and development groups for state-of-the-art application of intelligent methods in modeling, optimizing, controlling, and designing frameworks that consider the interlinks between buildings and smart grids. We are looking for solutions that result in efficient resource allocation and control of integrated energy-building systems, especially when a high penetration of renewables and storage units exists. Researchers from academia, industry, and government are invited to submit their original and unpublished work to this Special Issue. The topics of interest include but are not limited to:

- Grid interactive buildings;
- Application of model-predictive control in grid optimization;
- Demand response through building energy management;
- Application of machine learning for optimization of grid and buildings;
- Application of machine learning for control of grid-integrated buildings;
- Real-time optimization and control of renewables integrated to buildings and grid.

Guest Editor

Prof. Dr. Javad Khazaei

Department of Electrical and Computer Engineering, Lehigh University, Bethlehem, PA 18015, USA

Deadline for manuscript submissions

closed (15 February 2023)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/89011

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)