

Special Issue

Carbon–Electricity Market, Energy Sharing and Consumptions for Communities

Message from the Guest Editor

Renewable energy is a promising solution to the increasing energy crisis and environmental issues, and communities play a crucial role in the energy transition to a sustainable and low-carbon energy system. Currently, community energy consumption accounts for more than 30% of total social energy consumption, which has long been a key direction for energy system optimization. If households and enterprises work together to improve energy efficiency, the entire community will improve environmental and economic efficiency. In addition, energy sharing among communities is an important measure to alleviate energy shortage and promote the efficiency of renewable energy use. The carbon market and electricity market play an important role in encouraging community energy sharing and improving energy consumption efficiency. The rapid development of technology has expanded the ability of communities to jointly operate different energy sources. Research on community energy sharing and consumption is of great significance for achieving the goals of the Paris Agreement implemented in 2016.

Guest Editor

Dr. Jun Li

School of Economics, Hefei University of Technology, Hefei 230009, China

Deadline for manuscript submissions

closed (11 September 2024)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/150227

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)