# Special Issue

# Advanced Structural Response and Performance of Wind Turbines

## Message from the Guest Editors

The increasing attention to distributed power generation for smart cities and green buildings has been accompanied by a large interest in micro and small wind turbines. However, this growing interest is not accompanied by appropriate technological improvement; therefore, they still play a marginal role in energy production. In this context, a stark contrast exists between the potential and reality, which appears even more striking when compared to the large wind-turbine sector. This Special Issue welcomes research addressing the aforementioned topics, considering both the efficiency of the power plant and the assessment of the structural behaviour of vertical or horizontal small-sized wind turbines. Contributions regarding experimental tests, in-field installations, and full-scale monitoring are also welcome, as well as research papers developing calculation procedures of the load modelling and dynamic response that are useful for the design and new certification standards.

## Guest Editors

Dr. Francesco Castellani

Department of Engineering, The University of Perugia, 06125 Perugia, Italy

Dr. Luisa Pagnini

Department of Civil, Chemical and Environmental Engineering, Polytechnic School, University of Genoa, Genoa, Italy

## Deadline for manuscript submissions

closed (15 May 2024)

**Energies**

**an Open Access Journal by MDPI**

**Impact Factor 3.2**
**CiteScore 7.3**

mdpi.com/si/170787

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

mdpi.com/journal/energies

# Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

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)

MDPI