Special Issue

Modeling and Control of Wind Energy Conversion Systems

Message from the Guest Editors

Continuing the increasing penetration of renewable energies in power systems is a challenge. Wind power has been the fastest growing renewable energy in recent years. According to GWEC, 60.4 GW of wind energy capacity was installed globally in 2019, a 19% increase from installations in 2018, and total capacity for wind energy globally is now over 651 GW, an increase of 10% compared to 2018.

Modeling and control of wind energy conversion systems is a fundamental research topic for easing wind energy penetration in power systems. Aspects like power-frequency control, virtual inertia, black-start capability, hybrid wind farms, offshore wind farms and their transmission systems, and others must be investigated in depth to make possible an even greater contribution of wind energy in the electricity mix. This Special Issue aims to encourage researchers to create solutions to the technical and economical problems in the way of improving the integration of wind power in electrical grids.

Guest Editors

Prof. Jose Luis Rodríguez-Amenedo

Electrical Engineering, Universidad Carlos III de Madrid, Av. Universidad, 30, 28911 Leganés, Madrid, Spain

Prof. Dr. Santiago Arnaltes Gómez

Department of Electrical Engineering, University Carlos III de Madrid, Leganes, Spain

Deadline for manuscript submissions

closed (30 June 2021)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/45428

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)