Special Issue

Optimization of Multicarrier Energy Systems

Message from the Guest Editors

Horizontal integration of energy systems allows to reach higher levels of efficiency and sustainability. Multicarrier energy systems (MES) achieve this integration by setting up physical or virtual nodes where energy, in any possible form, can be exchanged, transformed or stored, following supply/demand balancing needs, demand response policies, market requests or optimal control rules. This Special Issue is dedicated to exploring methodologies and control architectures for the optimization of the design and operation of multicarrier energy systems (MES). Since the dimensions, attributes, or even name of a MES might vary according to its working domain, this Special Issue will welcome contributions regarding any form of horizontal integration of energy sources such as energy hubs, district energy, hybrid energy systems, microgrids, nanogrids, industrial power parks, building energy management system (BEMS), home energy management system (HEMS). Research papers are welcome as well as experiences from the setting up of innovative laboratories, reports and experimental results from pilot systems, demonstration projects or actual field implementations.

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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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