

Special Issue

Smart Technologies, Management and Control for Energy Systems and Networks

Message from the Guest Editors

In recent decades, an ever-growing concern about energy transition has fostered a massive use of renewable energy systems, provided the electrification of conventional means of transportation, and enhanced the use of energy storage from residential to industrial, tertiary, and utility level applications. This Special Issue will focus on the key technologies enabling energy transition in future multi-energy systems and networks. In particular, the ever-growing importance of exploiting synergies between different energy networks, namely electric, natural gas, district heating and cooling, and, to a wider extent, other “networks” such as E-mobility and water is becoming widely recognized. When dealing with multi-energy systems, a holistic approach should be used. Technologies enabling interactions between networks (polygeneration, heat pumps, etc.), optimal management and control strategies, energy storages (EES, TES, power-to-X), and ICT tools will play a pivotal role to fully exploit the potential flexibility required when increasing the share of energy production from non-programmable renewables sources.

Guest Editors

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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.

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