Special Issue

Energy Flows and Synergies between Energy Networks

Message from the Guest Editor

Future electricity generation, based on variable RES, will render current solutions for grid balancing and stability insufficient. Intermittent generation will require extensive electricity demand flexibility to alleviate the unpredictable grid stresses. Moreover, energy systems will necessitate the use of novel or optimized conversion and storage technologies (such as power to gas, power to heat, and virtual energy storage in buildings) in order to increase the synergies between electricity, heat/cooling, and gas networks to achieve the avoidance of RES generation curtailment. This Special Issue aims to encourage researchers to present and discuss some new ideas and solutions to explore, identify, evaluate, and quantitatively assess optimal solutions and strategies to integrate and operate conversion/storage systems on the distribution grid of several energy carriers.

Guest Editor

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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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