Special Issue

Modelling Climate-Neutral Energy Systems and Markets

Message from the Guest Editor

Energy system modeling for achieving carbon neutrality in the entire system is the topic of the Special Issue. Energy system restructuring for carbon neutrality has to include disruptive options (technologies and consumption paradigms), beyond conventional pathways studied so far in the literature. The electricity sector is of key importance to support electrification of final demand and produce carbon-neutral hydrogen, gas, and liquid hydrocarbons. Climate neutrality in power generation heavily depends on integration of renewables at a large scale. To this end, storage system, including with seasonal storage cycles, will need to develop. Distribution of carbon-neutral hydrogen, gas, and liquids has to restructure to accommodate blending from different origins and locations.

Guest Editor

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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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