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Emerging Topics in Energy Infrastructure Planning Based on Energy Sharing and Energy Transition

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Message from the Guest Editors

Dear Colleagues,

Energy systems necessitate substantial upgrade during the transition towards net-zero, which includes i) the adaption of new technologies for decarbonising the supply and demand sides by the uptake of renewable generation and the electrification of transportation and thermal sectors, ii) the innovation of business models and operating schemes in using distributed energy resources for decentralisation, and iii) the application of digitalisation tools such as blockchain to fulfill the decarbonisation and decentralisation targets. An example is the energy sharing initiative that has been endorsed in energy systems, where consumers can jointly invest in new technologies or prosumers can establish peer-to-peer trading schemes to collectively gain profits. The planning of energy infrastructure would be essential to facilitate the energy transition process and enable novel smart grid concepts such as energy sharing in a robust, secure, and cost-effective manner.

This special issue aims to present and disseminate the advanced and innovative ideas related to energy infrastructure planning, energy sharing and energy transition.

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Guest Editors



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Special Issue



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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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