Special Issue

Energy Transition Targets in Future Energy Systems: The Role of Electric Vehicles, Storage Technologies, Smart Grids and Hydrogen Systems

Message from the Guest Editor

Several initiatives in decarbonizing the road-transport system are focusing on policy strategies, the transformation of the energy system and the deployment of charging infrastructure to further promote the adoption of electric vehicles as well as of zero-emission vehicles (ZEVs). However, scaling up and deploying the number of innovative low-carbon technologies currently at high technology readiness is needed to reach the 2030 emission objectives. Technologies that are still in the pilot and demonstration phases and at even lower development levels are crucial for reaching the 2050 emission targets. The most pressing challenge is to speed up innovation projects to be ready for the market. To help reach this goal, this Special Issue aims to bring together the latest research and developments in this field, with a particular focus on addressing the challenges of EVs, analyzing the infrastructure within smart cities and exploring the role of AI.

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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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