Special Issue

Low-Carbon Transition of Transport Energy Systems: Policy Instruments, Technological Innovations, and Market Synergies

Message from the Guest Editors

This Special Issue focuses on the critical role of policy instruments, technological innovations, and market dynamics in driving the transition toward low-emission and sustainable transport systems. We invite scholars to submit contributions that examine the design, implementation, and effectiveness of climate and energy policies in the transport sector. Relevant topics include carbon pricing, emissions trading schemes, fuel economy standards, renewable fuel mandates, and financial or regulatory incentives. We also welcome studies on emerging technologies such as battery electric vehicles, hydrogen mobility solutions, wireless charging infrastructure, and digital platforms that improve transport system efficiency and environmental outcomes. This Special Issue aims to foster interdisciplinary dialogue and promote evidence-based approaches to achieving a just, inclusive, and resilient low-carbon transport future.

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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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