Special Issue

The Interplay Between Technologies and Energy Policies for Reducing the Environmental Impact of Transportation: Scenarios and Case Studies

Message from the Guest Editor

The electrification of road vehicles is viewed as the most promising pathway to increasing conversion efficiencies and reducing GHG emissions. Yet, progress is slow. Transport continues to rely on oil products for nearly 91% of its final energy (source: IEA website). Transport is responsible for approximately one fourth of greenhouse gas emissions (GHGs) and high levels of ambient air pollution and noise in cities and towns, in addition to consuming a significant amount of energy. It is highly uncertain whether the target of reducing GHGs so that the global average temperature remains below 1.5–2 °C can be achieved. A combination of innovative technologies and energy policies is needed to significantly reverse the current trends, challenging the scientific community to find and propose solutions. For this Special Issue, we are interested in papers that (i) critically analyze past technologies and energy policies, highlighting their strengths and weaknesses and (ii) propose innovative technologies and energy policies and outline their potential to achieve GHG emission reduction, discussing both their technological and economic features.

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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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