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

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Message from the Guest Editor

Dear Colleagues,

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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Special Issue



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Message from the Editor-in-Chief

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