

Special Issue

Energy Consumption and Environmental Impact of Means of Transport with Conventional and Alternative Powertrains

Message from the Guest Editors

The continuous growth of the global transport demand has led to a steady increase in energy consumption and pollutant emissions, significantly contributing to climate change and urban air quality deterioration. The decarbonisation of transport, one of the key pillars of global climate policy, requires the implementation of advanced propulsion systems, efficient energy management strategies, and a transition towards alternative energy carriers. This Special Issue aims to provide a comprehensive overview of the latest scientific and technological developments in the field of energy consumption and environmental performance of transport means equipped with both conventional and alternative powertrains. This Special Issue welcomes the submission of research that addresses the full spectrum of transport categories, from road and rail to maritime and air, as well as interdisciplinary studies combining energy efficiency, emission control, sustainability assessment, and system optimisation.

Keywords:

- sustainable transport
- transport decarbonisation
- alternative powertrains
- alternative fuels
- real driving emissions (RDEs)
- energy efficiency
- lifecycle assessment (LCA)
- energy consumption
- air quality impact

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Deadline for manuscript submissions



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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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