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High Efficiency Electric Freight Vehicle

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Message from the Guest Editors

The major issue for present and future cities is atmospheric emissions of anthropogenic origin, where urban transport is seen as a major source of emissions. In this context, the problem of urban logistics operations has become one of the key challenges for all stakeholder groups involved in freight transport in urban areas. As a result, over recent years, there has been a growing interest in increasing the efficiency of transport through the utilization of alternative delivery systems.

Today, several city logistic activities and projects involve modifying freight vehicles, including alternative engines, such as electric. However, the costs of purchasing electric freight vehicles as well as the low level of charging infrastructure development are still perceived to be a substantial barrier to their widespread use. Additionally, a substantial difficulty lies in selecting vehicles with operation parameters that fulfil the needs of the logistic processes they are to serve. Therefore, the key challenge for present and future city logistics operators is the optimization of the transport fleets while considering a multicriteria specificity of electromobility development.

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Message from the Editor-in-Chief

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