

## Abstract

Submitted thesis focuses on a topic which cannot be described as classical legal topic in the Czech Republic. Nevertheless, in times of climate change and general need of shift to zero emission transportation and sustainable development of our society, this topic is very much needed. The thesis provides a general framework of type approval legislation of new vehicles of the EU and national legal system with an emphasis on test cycles such as WLTP and RDE. The thesis analyses Euro emission norms which define thresholds for polluting substances from exhaust fumes and at the same time analyses union legal regulation of CO<sub>2</sub> emissions from new vehicles. To fully develop zero emission transportation, it is necessary to have sufficient corresponding infrastructure (e.g. charging stations). Because of this dissertation focuses on legislation concerning alternative infrastructure and selected alternative fuels. The thesis also analyses specific legal instruments (direct and indirect) which could be used as tools for the development of zero emission transportation and for improvement of air quality, especially in urban areas. Within indirect legal instruments, state aid and other financial incentives which can promote the development of zero emission transport are analysed. Direct legal instruments such as air quality plans, action plans and low emission zones (which are also compared to their German counterparts) are also analysed. These instruments are analysed with respect to their role in the development of alternative infrastructure and alternative vehicles.