

ABSTRACT

My thesis examines the environmental issues of transport, which is becoming more and more popular nowadays and employs many people. The topic of transport itself is huge, so I focused mainly on the environmental problems caused by road freight transport and possible solutions. The emission limit set by the European Union is 690 mg/kW, but the EURO6 vehicle used in transport also exceeds this limit, as its current measured emissions are 768 mg/kw. Road transport contributes 28% to air pollution, with exhaust gas, brake wear, tyre wear and asphalt wear. Road freight transport also greatly exacerbates the problem of noise pollution. Road freight transport contributes 11.9% of greenhouse gas emissions, which significantly affects climate change. Greenhouse gas emissions are increasing every year, as reducing them is difficult to achieve, as hybrid, electric, hydrogen-powered freight vehicles do not yet have the same mileage as an internal combustion engine.

In my research, I use both primary and secondary methods. In the course of the literature analysis, I illustrate the current environmental problems and their significance with the literature related to the topic, and in the course of secondary research with various statistical data, and I also describe future ideas and developments. In addition, I will present several environmentally conscious freight transport solutions, as well as alternative options for replacing internal combustion engines and cover the future of transport. As a primary research, I conduct a questionnaire survey among road transport companies operating in Fejér, Győr-Moson-Sopron and Veszprém counties about how their company relates to environmental issues, what specific environmental measures have been introduced into their operations and how we see the future of transportation.

Keywords:

freight transport, environment, green logistics, alternative freight transport options