УДК 656:658:502 ECOLOGICAL TRANSPORT IN LOGISTIC

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Transport logistics is a delivery organization system which refers to transportation of any material objects. Freight transport plays an important role in the development of world economics at the same time having a negative impact on the environment. Greenhouse effect, noise pollution, air and water pollution – these are the results of continuous operation of automobiles. According to the National Statistical Committee's data, 27,7 thousand tons of harmful products from transport activity were released into the atmosphere in the Republic of Belarus in 2020. This rates 11,7 % higher than in 2019. Thus, there is a problem of how to minimize harmful effect of exhaust gases and to make auto transport eco-friendlier. Freight vehicle manufacturers all over the world are in constant competition to create the most ecological engine. This has led to introduction of EURO-5 and EURO-6 ecological automobile standards.

However, at the moment, the world community has started talking about revolution with electric engines replacing internal combustion engines (ICE). Creators of electric vehicles call the absence of exhaust emissions the main advantage of such cars as they are powered with electric energy. Unfortunately, greenhouse gas emissions are not decreasing: the air is polluted by thermal power plants that produce energy to charge car batteries. Currently, the main source of electricity around the world is thermal power plants, 40 % of the output is accounted for by thermal power plants running on coal and peat, another 22 % - on gas and 5 % - on oil. Based on the unit of energy received, the degree of environmental danger of thermal power plants is much greater than from the operation of internal combustion engines since strict requirements are put forward to minimize the pollution of exhaust emissions of modern cars all over the world. Therefore, it is worth concluding that in order to ensure full environmental friendliness of electric cars, they need to be transferred to charging with energy generated by alternative energy facilities or nuclear power plants.