**The Usage of Electric Transport Vehicles in the Logistics Industry**

1Ahmet Murat Köseoğlu 2İsmail Özdemir**,**

Istanbul Gedik University, Faculty of Economics, Administrative and Social Sciences, International Trade and Logistics Department, 34876 Kartal-İstanbul, Turkey

2 İstanbul Gedik University, Faculty of Economics Adminisitrative and Social Sciences, MIS, İstanbul, 34876, Turkey

\* E-mails: murat.koseoglu@gedik.edu.tr, iozdemir@gedik.edu.tr,

**Abstract**

The increase in consumption due to the impact of globalization has led to an intense increase in logistics sector operations. The increase in logistics operations is an important factor in the increase in global carbon emissions. However, the recent preference for electric transportation vehicles is seen as a promising solution to reduce the carbon footprint of the sector. Electric transport vehicles are being increasingly considered in the logistics industry due to their maneuverability, low carbon footprint, and cost-effectiveness. It is considered that the use of electric transportation vehicles in picking and packaging operations can speed up delivery times, reduce errors, and reduce the carbon footprint of logistics operations. Electrifying commercial vehicle fleets can make a significant contribution, especially to e-commerce logistics, by enabling economical and efficient operations. The proliferation of electric transport vehicles is progressing slowly and is currently limited to light commercial vehicles, but the number of electric truck models is expected to increase significantly in the coming years. Effective use of electric transport vehicles in logistics operations will significantly reduce operating costs and energy expenses and increase the efficiency of the vehicles. The logistics industry has begun to embrace the use of electric transport vehicles for its operations, and many companies are investing in creating a fleet of electric freight vehicles. The purpose of this article is to analyze the impacts of electric transport transportation vehicles on the logistics industry, including the benefits of electric transport vehicles, difficulties in their adoption, and their impact on the environment and economy.

**Keywords:** Electric transport vehicles, energy efficiency, environmental sustainability, logistics industry, logistics operations