

## **ENVIRONMENTALLY FRIENDLY CARGO TRANSPORTATION**

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We know what's going on with our planet. People are trying to feel more comfortable in their decisions and are making more and more efforts to reduce harm to the environment.

Shipments moving across global cargo routes generate more than 20% of worldwide carbon dioxide equivalent emissions which in turn raises planetary temperatures and causes ice to melt and oceans to rise and modifies both the ecological and natural environment [1]. Therefore, logistics is no longer limited by speed and efficiency. Now all logistics companies are not only looking for the cheapest way to deliver cargo, but also looking for a more environmentally friendly approach. Choosing a more environmentally friendly way to deliver cargo will help maintain oxygen levels, combat climate change, and, of course, protect human health and their habitat.

Eco-friendly cargo delivery is not only a time requirement, but also an important step towards a sustainable future. Among the many options, there are several of the most environmentally friendly ways that minimize the impact on nature:

1. Rail transportation is considered one of the most environmentally friendly modes of transport. Compared to road transport, railways emit significantly less carbon dioxide per ton of cargo transported. This is especially true for long-distance delivery. But logistics companies rarely use this method of delivery, because compared to other methods, this one takes a very long time to deliver cargo and always requires reloading the cargo to another type of transport in order to deliver the cargo directly to the consumer [2].

2. The use of water transport, including river and sea vessels, is an effective way to move goods. Although this method may be even slower than rail transport, it is highly energy efficient. The establish-

ment of adjacent river–sea routes helps to minimize emissions. And of course, logistics companies turn to this method even less often, because not all countries have direct access to the sea and this method of delivery can be very expensive for them [3].

3. Everyone knows that trucking has a number of advantages. First of all, they are the fastest, most mobile and most convenient, but at the same time this type of cargo delivery is relatively expensive and causes the greatest harm to the environment. Electric vehicles and alternative fuel vehicles gain popularity since their use drives “green” technology adoption and proves the increasing corporate focus on sustainable development principles. The implementation of electric-powered cargo delivery methods provides logistics companies with particularly advantageous economics because electric power remains less expensive than conventional petroleum-based fuels. Using charging stations, especially at night with discounted rates, allows you to further optimize costs. In addition, many countries provide tax breaks and other benefits to logistics companies using electric vehicles, which further reduces overall costs. Despite the higher initial cost, electric vehicles have less wear and tear, which increases their life and minimizes fleet renewal costs.

Thus, taking into account all the above factors, road transport using electric vehicles is the most promising, profitable and environmentally friendly way to deliver goods [4].

### References

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