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Stages of development of railway transport

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Annotation: In the article, the demand to change steam locomotives to diesel locomotives and, in turn, diesel locomotives to a new form of transport, is on the agenda, because the economic efficiency of diesel locomotives, which were once a novelty, has been decreasing year by year. It has been analyzed that such situations require the modernization of railway transport, and one of the works in this direction is to start using electric locomotives instead of diesel locomotives.
Key words: Creativity, steam locomotives, diesel locomotives, electric locomotives, modernization.

Introduction

The attribute of creativity extends to all phenomena that are the product of human thinking. This concept, which gives meaning to creativity, creativity, creativity and creativity, extends to modes of transport. It is known that each mode of transport has its own "pros" and "cons". If they are superior to each other in some aspects, they may be weak in other aspects[1]. If one mode of transport is important in a certain situation, another mode of transport may take precedence in the next situation. So it is not right to give preference to one mode of transport over another. Each mode of transport has its own meaning in social reality. Including rail transport[2]. However, “vehicles, such as rail transport, would be economically inefficient if only one product were to be delivered. Therefore, vehicles are used in different directions for different purposes. It follows from this that rail transport cannot develop only at the expense of the transportation of passengers or the same goods. On the other hand, there are many possibilities for the delivery of goods by rail.

Discussion and results

If we dwell on the period of the appearance of rail transport, then this period corresponds to the beginning of the 1800s, the 19th century, which was the century of great discoveries in the field of technology and transport in the history of mankind. To be more precise, 200 years have passed since mankind began to use this mode of transport. It should be recognized that over the past two centuries, rail transport has taken a worthy place in the economic system of countries[3]. Currently, "The total length of railways in the world is approximately 1.2 million kilometers, and the leaders in this regard are the United States, China, Russia, India and Canada." It should be noted that the process of development of railways as a new mode of transport was relatively faster. Rail transport, which first appeared in the 1820s, became the most famous and popular

[1] Salimov Bakhriddin Lutfullaevich, Ergashev Zakhriddin Muradkabilovich, and Saidov Abukarim Abdurahimovich. The Influence of the Transport and Communication System on Social Relations. Web of Semantic: Universal Journal on Innovative Education. Volume 2 Issue 2, (2023), 209-212.

[2] Salimov Bakhriddin Lutfullaevich. The Importance of Sea Transport in the Communication System. WEB OF SYNERGY: International Interdisciplinary Research Journal. 2023. Volume 2 Issue 1, 272-275.

[3] Salimov Bakhriddin Lutfullaevich, Akromkulov Azim Sheralievich, and Zayniddinov Diorbek Zafarovich. Reforms in the Fields of Communication and Transport and Their Social Impact. Web of Semantic: Universal Journal on Innovative Education. Volume 2 Issue 2, (2023), 227-230.

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mode of transport in the world at that time in 20-30 years, too short for history. There must have been a number of reasons for this[4]. They were:

in those periods, only carts, carriages, wagons, carts with horses and horses moved massively on land;

railways and the steam locomotives and wagons that ran on them were a great innovation for that time;

railway transport with its human transportation, cargo transportation, speed, non-stop, ability to travel long distances and other capabilities had a great advantage over wheeled horse-drawn carts;

at that time, vehicles moving on land were discovered, but they had not yet been improved and popularized;

at that time there was no air transport that could compete with rail transport;

states - fully supported the development of railway transport, which was considered beneficial from both social, economic, political, cultural and other points of view[5];

rail transport has a huge advantage over other modes of transport both then and now. This advantage lies in its ability to move despite snow, rain and generally adverse weather conditions;

rail transport is capable of transporting heavier and larger loads than other modes of transport;

relatively low prices for freight transportation by rail and the positive impact of this on the cost of production of manufacturers.

The important advantages of rail transport, which we have listed above, were the basis for the development of the industry in a very short time[6]. By the beginning of the 20th century, rail transport had become the main mode of transport in the world. No wonder V. I. Lenin said that "Railways are the blood vessels of the country's economy." After all, by this time steel tracks had penetrated into many countries of the world, where steam locomotives worked as locomotives for freight and passenger cars. By the way, if you think about locomotives. The term "steam locomotive" is based on the Russian words "par" - "steam" and "carries" - "wagon". In the history of mankind “In 1814, the English designer and inventor George Stephenson created the first steam engine[7]. When a steam locomotive was tested on a railway track, it moved at a speed of 10 km per hour, pulling 8 wagons behind it ... In 1825, George Stephenson managed to build the first railway between the two cities. 1825 is indicated as the date of the appearance of the first railway transport in many literatures. But as can be seen from the above quotation, on this day a railway was built between the two cities and railway traffic began. Therefore, in our opinion, it is correct to say that intercity rail communication was established in 1825 and the mass use of this type of transport began. The year 1814 is appropriate to indicate the date of the opening of the first railway transport and the construction of the railway. Because on this date, together with couples The cart was found to be a railroad and the wagons that run on it. These three things: locomotives, wagons and railways are important elements that form the basis of rail

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transport. When it comes to rail transport, these three things are the first thing many people think of. Without them, rail transport cannot exist[8]. Of course, the content of some of them may have changed. For example, steam locomotives pulling wagons were later replaced by locomotives. Over the years, diesel locomotives give way to electric locomotives. After all, this requires the consequences of gradual development. Everything - phenomena change and develop from simple to complex, from bottom to top. This is the law of development. It cannot be changed or stopped.

In 1890, another type of electric transport was founded in London, the capital of Great Britain. In the same year, the first underground electric train in the City of London consisted of 16 electric cars. This electric train is the first metro transport on earth, and over the years it has been improved and developed. Nowadays, it has become a convenient, cheap, safe and, of course, a fast means of transportation. It is worth noting that the metro is a public transport. That is, the metro is designed only for passenger transportation, and is currently the main means of public transport in many countries[9].

In the development of railway transport, steam locomotives have been used as locomotives pulling cars for 100 years. Steam locomotives can also be called steam engines. In this sense, steam engines are one of the modes of transport that have been used for the longest time in railway transport. For the movement of steam locomotives, the drivers and their assistants had to keep the fire at the furnace. Steam locomotives had to carry tons of coal and firewood. For this, a lot of effort and work was spent. Therefore, drivers at that time had to be in good physical shape, as well as understand the technique[10]. Of course, the laws of progress limited the use of steam locomotives. This border was the beginning of the 20th century. By this time, steam locomotives had been replaced by cars with an internal combustion engine running on diesel fuel, new steam locomotives by steam locomotives. “The first steam locomotives were tested in Germany in 1912. In 1922, the Russian engineer A.N. Shelest created the design of the mechanical transmission of a steam locomotive (but his idea was implemented in Sweden in 1950). I am in the USSR. M. In 1924, the world's first main steam locomotive designed by Gakkel was created. Later, the design of the locomotive was improved.”

Conclusion

This period also put on the agenda the demand to replace diesel locomotives with a new mode of transport. Because the economic efficiency of locomotives, which were once a novelty, has declined every year. One of the main reasons for this was the rise in price of diesel fuel used by locomotives and the rise in price of other fuels and lubricants. These and other reasons have led to a constant increase in prices for services provided by rail transport. Such negative situations automatically enable customers to abandon rail transport and choose the services of other modes of transport. In order to improve the situation and retain customers in railway transport, a number of modernization works have also been carried out. One of the works in this direction was the beginning of the replacement of diesel locomotives with electric locomotives.

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