

The Place and Significance of Modern Electric Cars in the Uzbekistan Car Market

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Abstract:

In this article, the entry of electric cars into the car market of Uzbekistan, its popularization, as well as a number of advantages and disadvantages of electric cars are covered on a scientific basis. The work to be done in the future in this field was also mentioned.

Keywords: Electric car, automotive industry, infrastructure, hybrid, accumulator, battery, charging stations, economic efficiency, cars of the future.

First of all, let's define an electric car. It is a car that is powered by one or more electric motors and is powered by an independent energy source rather than internal fuel. It is easy to use in the city, it is created with a separate transmission, lightened chassis and body, and designed to replace the batteries[1].

We all know that the role of modern electric vehicles in the world market is increasing. In response to growing environmental concerns and ever-increasing energy demands, several countries are focusing on the development of electric vehicles. Uzbekistan is also one of the countries doing great work in this direction[2]. The fact that the automotive industry of Uzbekistan is on the way to gaining its position in the international arena is a sign that there are still big milestones ahead. Today's era requires increasing the scientific potential of Uzbekistan's engineers and the further development of industry-related techniques. In particular, the decision of the Honorable President No. PQ-443 of December 19, 2022 "On State Support Measures for the Organization of the Production of Electric Vehicles" was signed [3].

Uzbekistan is provided with a wide infrastructure for the production of electric vehicles and the supply of manufactured components and spare parts. Today, there are 8 automobile factories in our country, which produce many different types of vehicles, such as cars, trucks, agricultural and special equipment. It also allows more than 2,000 organizations to produce components and supplies in cooperative ways.

In Uzbekistan, interest in electric cars (electric cars) grew until 2020, and in October 2020, it entered the city of Tashkent with the first charging station installed by the Makro company. President Shavkat Miromonovich Mirziyoyev said that by 2023, 35% of imported cars will be electric or hybrid models, and according to that, the number of electric cars entering Uzbekistan has increased 10 times in 3 years. Along with this growth, tasks were given to accelerate the projects aimed at strengthening the electric vehicle sector in the country. In cooperation with BYD and other similar industrial companies, attention was paid to finding the necessary components for the production of electric cars.

Uzbekistan paid special attention to the implementation of the necessary infrastructure plan for the development of the electric car sector. This strategic project allows for the mass import of electric vehicles and their production in our country in order to ensure the wide spread of electric vehicles. In particular, according to the Ministry of Justice, the production capacity of electric and hybrid cars in Uzbekistan will be gradually increased to 500,000 units per year [4].

At this point, we should list a number of advantages and disadvantages of electric cars, which are becoming popular day by day. So, can we really call them "Cars of the Future"?

Advantages:

1. **Environmentally clean energy:** Electric cars run on electricity and reduce harmful emissions into the atmosphere. This is a great advantage in environmental protection.
2. **Noiseless:** Electric car engines work very quietly, its noise is almost imperceptible. This is a great convenience for city dwellers.
3. **Promotion:** The popularity of electric cars is expanding in the world. Many car companies in other countries are implementing plans aimed at the production of electric cars.
4. **Economic efficiency:** Electric cars are more cost-effective because they use electricity to run, which lowers the cost of running.
5. **Technological possibilities:** Electric cars are equipped with smart technologies and provide Internet connection, automatic driving and other such conveniences.

Disadvantages:

1. **Charging and range:** The problem of charging electric cars taking a long time and charging stations being far away has not been solved yet.
2. **Price:** Nowadays, electric cars are more expensive than other cars. But these prices are expected to decrease in the future.
3. **Infrastructure:** The necessary infrastructure for the use of electric cars (charging stations, batteries, service centers) is still not well developed.
4. **Replacing the batteries:** Batteries are not good for long-term use. It is necessary to replace them after a certain time.

So, as long as we eliminate the above-mentioned shortcomings of electric cars, we can easily call them "Cars of the Future". There is still a lot of work to be done in this regard. The most important of them is the improvement of infrastructure. That is, it is necessary to increase the number of charging stations and reduce the distance between them. Also, providing high-quality service for electric cars, as well as training qualified specialists in this regard, can be a practical solution to the problem.

In conclusion, the introduction of the electric car sector has made a radical change in the machine building market in our country. In the future, the further development of this field will have a significant positive effect on the country's economy.

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