Electric Cars as Cars of the Future

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ABSTRACT

Today, we will give information about the world's electric vehicle industry through our article on the stages of development of the electric vehicle industry through the data we know and do not know, and statistical figures. In the future, we hope to apply the results of these data and studies to the electric car industry of Uzbekistan.

Keywords: Lithium-ion batteries, electro engine, Canal's analytical company, electric voltage regulator, Hyundai Kona, additional accumulator, alternative energies

To date, along with the fact that the development of the automotive industry has reached a new level, the number of toxic gases that cars release into the environment is also decreasing. As a result of this, serious climate change to the planet and the number of diseases among the population is increasingly increasing. For this reason, a lot of work on the production of electric cars today is being carried out intensively. Because the dangerous effect of electric cars on the environment is significantly less. Therefore, electric cars are recognized today as cars of the future.

Well, what kind of work is being done on the creation of electro blasts today. To date, the world's leading car brands have launched jobs for the production of their own electric cars. For example, Tesla, Chevrolet, Audi, Porsche, Aston Martin, Volkswagen, Hyundai, Mercedes Benz, Ford, Volvo, Nissan and we can continue this list again. The increase in such brands is evidenced by the fact that in the near future we are approaching a radical turn in the electric vehicle industry.

If we rely on the electric vehicle industry and its origins, we can witness that even the first invented vehicle in the world is an electric vehicle. And the inventor was Robert Anderson, and he developed the first electric motor vehicle in 1832-1839 years, he worked with a non-rechargeable accumulator and its charge reached 6 kilometers. Perhaps for this reason, this project stopped shortly after the development phase, but it is not surprising if this project served as a foundation for today's electric cars development.

Today, the most advanced technology of electric vehicles is lithium ion batteries, which are capable of providing a lot of autonomy. Thanks to this, cars can reach high speeds.

Thanks to rechargeable batteries, the series of electric cars is being produced and become economical and useful.

The main characteristics of this vehicle are its ability to work on electricity. This means that fossil fuels such as gasoline and diesel, and in addition, will help in establishing the infrastructure of automobiles while not polluting the atmosphere. Environmental pollution is a serious global problem that can trigger climate change. In addition, he is responsible for millions of untimely deaths per year from respiratory and cardiovascular diseases.

Today we will briefly dwell on how the electric cars, which are recognized as future cars, are being created and their structure.

Electric cars are considered to have a much simpler structure than internal combustion engines. Its parts:

- electro engine;
- electric voltage regulator;
- accumulators;
- cooling system;
- additional accumulator (for rolling);
- board charger and other parts.

The simplicity of these parts and the lack of them in relation to internal combustion engines can also be the main reason for its mass reduction. If we take only one set of batteries that can move it, their total weight will be about 29 kg.

Electric cars have several advantages in the following:

- on account of the fact that the electric motor does not emit harmful gases to the environment, which leads to a decrease in environmental pollution;
- the electric motor reduces the traditional cash consumption due to the fact that it receives power from electricity (on account of alternative energies;
- in the event of a collision with an electric car, the electric car automatically stops as a result of the battery disconnection by the collision sensor;
- since the number of spare parts is less, it increases the reliability of the electric vehicle, and as a result, the costs of repair and maintenance are reduced;
- the presence of the possibility of obtaining power from a standard electrical network of batteries allows you to significantly reduce the cost;
- less noise is emitted when the car is caught on fire and moving;
- the presence of an electric motor in the electromagnetic brake mode provides for the possibility of emergency braking.

In addition to the above advantages, electric cars is not excluded from the shortcomings.

The fact that the price of electric cars sold in the automotive market today is very expensive. On average, from 12000 dollars to 70000 dollars

After a certain period of time after the purchased electric cars have been exported, its market price is significantly falling (we can see that the price of the exported electric cars is 4ming 5ming cheaper around 5 years)

When driving for a long way, the charging time increases, for example, the Reno Z electric car, whose approximate price is 14 thousand dollars, runs at a distance of 200 km at full power. In order to fully charge the machine, it is set to take about 6 hours at 220 volt current, and in 390 volt current about 2 hours. As a result, the Khorezm drive can spend at least 10 hours to power the car.

Year after year, as a result of improper export, the capacity of the bataregas decreases (shelf life is about 8-10 years, according to current reports)

The price of replacing the batteries of the electric car if the cause of the extinction is out of work is about 4.5 thousand dollars on average today

But despite these shortcomings, electric cars continue to conquer the world markets due to the lack of depreciation funds spent on them and the simplicity and cheapness of maintenance. Because of the shortcomings listed above, one by one will continue to find its solution due to the development in the electric vehicle industry.

To date, we have been trying to answer the question of whether the world community

is ready to use electric cars with some statistical figures.

The number of charging points of electric cars is indicated every 100 km in the cross-section of the states by the maximum and minimum charging points. Countries with the most charging points every 100 kilometers.

№	State name	Number of charging points every 100 kilometers, pieces
1	Holland	47.5
2	Luxembourg	34.5
3	Germany	19.4
4	Portuguese	14.9
5	Austria	6.1

Countries with the lowest charging points every 100 kilometers

№	State name	Number of charging points every 100 kilometers, pieces
1	Lithuania	0.2
2	Greece	0.2
3	Poland	0.4
4	Latvia	0.5
5	Romania	0.5

Relying on the above tables, we can see that the world is leading the Netherlands in terms of electric cars exploitation. Of course these are today's statistical data. These indicators are changing day by day.

Now let's calculate the indicators of the use of electric cars in the conditions of Uzbekistan. Taking into account the fact that the electric car industry has developed so far in Uzbekistan, the number of imported electric cars from abroad will help us in these calculations.

According to the state statistics office, our republic

13 in 2018,

39ta in 2019,

And in 2020 year 131 pieces

In 2021, 859 electric cars were imported.

It turns out that the electro cars import increased by 679 units or 6,2 times compared to 2020 year.

According to the Canal's analytical company, in the year 2020, sales of electric cars in the world market increased by 39 percent compared to the year 2019, during the year 3,1 million units sold electric cars.

Many Show technical reasons why electric cars are not popular in the Republic. Such consumers argue that if there is a malfunction in the car, it is concerned that there will be problems in finding its spare parts.

Also, all regions of the Republic are assigned to the occurrence of problems associated with the maintenance of electric cars, which causes the supply of stable electricity.

It is said that the absence of support offices throughout the Republic or the long demand for support for an electric car that is relatively cheap is one of the factors limiting the purchase of electric cars.

On the other hand, relatively affordable electric cars are much more expensive. For example, Hyundai Kona electric cars produced in South Korea are sold in Uzbekistan for Auto salon 35 thousand dollars.

It can be concluded that the popularity of electric cars in our country will continue to be questioned if there is no production of electric cars in our country or the payments for the importation from another country will not be reduced.

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