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ELECTRIC CARS: STEP INTO THE FUTURE

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*The article is about creation of electric cars and their use, pros and cons.
The author discusses possibilities and potential of electric cars.*

Keywords: *electric cars, safety, environment, pros and cons.*

Definition

An electric car must be different from a car with the internal combustion engine, as well as from electric buses and trams. An electric car is a car driven by one or more electric motors charged by an autonomous source of electricity (batteries, fuel cells, etc.), and not by an internal combustion engine.

History

In 1899, the Belgian Camille Genatzi equipped his car with a battery-powered electric motor. This car for the first time exceeded a speed of 100 km/h. The world's first streamlined record-breaking electric car La Jamais Contente (Always displeased) Belgian Camille Zhenatzi. The car is in the automobile museum of Compiègne (France) Camille Zhenatzi.

In the first quarter of the XX century, electric cars were widely used. In the 1910s in New York, up to 70 thousand electric cars worked in a taxi. Thomas Edison inspects the electric car "Detroit Electric". The electric car was mass-produced from 1907 to 1927. The maximum speed was 32 km / h, the range on one charge of the battery for 130 km.

In recent years, in connection with the continuous increase in oil prices, electric vehicles began to gain popularity again. In 2007, the industrial production of electric vehicles began to expand again. In 2013, the Japanese company Nissan's ZEOD RC electric car set another world speed record among electric vehicles.

Pros / Cons

+ Pluses of an electric car. No harmful emissions at the location of the car, higher environmental friendliness due to the lack of the need for petroleum fuel, easy maintenance, long service mileage, low fire and explosion hazard in an accident. Wide use of electric vehicles would partially solve the problem of "energy peak". The use of cheap (compared to oil or hydrogen fuel) of energy, which is generated by nuclear power plants and hydroelectric power stations

-Minuses of an electric car. For countries with a cold climate, the issue of heating the saloon is very urgent, the heavy weight of sufficiently capacious lead batteries, long battery charging times compared with refueling with gasoline. For wide use of electric vehicles, it is necessary to create the appropriate infrastructure for recharging batteries, low mileage of most electric vehicles on a single charge, disposal batteries that often contain toxic components (such as lead or lithium) and acids.

However ... Despite the large number of advantages of electric cars, such a car is unlikely will become popular even after 20 years.

Prospects

According to Ernst & Young's research, during 2018, global car manufacturers' capital investments in electric vehicle production almost doubled and reached 8.4 billion euros, while in the production of cars using conventional fuels they fell by 16% (22.4 billion euros).

According to IDTechEx research, the electric transport industry reached \$ 31.1 billion worldwide sales in 2005 (including hybrid vehicles). By 2015, the electric transport market will grow by about 7 times and reach \$ 227 billion.

Some automakers are not going to produce hybrid cars, but immediately begin the production of electric vehicles. They are behind in scientific development, cannot create a hybrid car on their own, or consider hybrids to be unpromising. For example, the Japanese company Mitsubishi Motors in 2009 began the industrial production of electric cars based on the Colt. It will install lithium-ion batteries. Existing prototypes have a range of 150 km.

So, anyway, the future will be different for sure. And people prefer to take care of the environment we live in and protect the natural recourses. So, hopefully, in the short future we will receive alternative cars comfortable for all of us.

Література:

- 1.<http://www.myshared.ru/slide/1097114/>
- 2.<https://ru.wikipedia.org/wiki/>