

EFFECT OF EXHAUST GASES ON OUR PLANET ECOLOGY

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The problem of environmental pollution with exhaust gases is the most urgent problem nowadays. According to research conducted by scientists, it can be stated that exhaust gases are the cause of the destruction of the ozone layer, which protects the planet from harmful rays, radiation and radiation.

An equally significant result of the harmful effects of exhaust gases is the onset of global warming, which has led to the melting of ice caps in the Atlantic Ocean, which in turn contributes to the extinction of many species of animals and organisms that live in the North Pole and Antarctica. As the result, penguins have nowhere to live and nothing to eat, which has led to a decrease in their population. It should be noted that road transport has a significant impact on atmospheric air pollution, the number of which increases several times every year (Arhipova, 2009). Gases released as a result of burning fuel in internal combustion engines contain more than 200 names of harmful substances, including carcinogens.

In its composition, exhaust gases contain: carbon monoxide and carbon dioxide, nitrogen oxides, hydrocarbons, soot, and heavy metals. Exhaust gases accumulate in the lower layers of the atmosphere, that is, harmful substances are in the zone of human breathing. Therefore, road transport should be included in the category of the most dangerous sources of air pollution near highways.

Prolonged contact with an environment poisoned by car exhaust gases not only pollutes our planet, but also causes a general weakening of the body. In addition,

directly toxic and harmful gases can cause various diseases: for example, respiratory failure, bronchitis, bronchopneumonia.

Therefore, our planet is our home, which must be valued and protected, and one must do everything possible not to pollute it with exhaust gases and harmful substances. In our opinion, there is a way out of this situation, it is necessary to reduce the emission of exhaust gases into the atmosphere. For this, you need to replace gasoline engines with electric ones. Alternative sources are a real way to protect the Earth and preserve the environment for future generations.

References

Arhipova, A. (2009). Analiz vplyvu vidprascovanyh avtomobilnyh gaziv na stan atmosferneho povitria v hustozaselenyh raionah [Analysis of the impact of exhaust gases on atmospheric air in densely populated areas]. *Visnyk NAU*. № 1. 30 - 35.

Kobal, V., Kuzmenko, R., Voropayeva, T., Lukse,l G., Stepanenko, O. (2022). Educational and scientific potential of the XXI century. *Challenges and prospects. Revista de Tecnología de Información y comunicación en Educación. Revista Eduwe*. № 16. (2). 95-106.