

NEGATIVE IMPACT OF INDUSTRY ON AIR POLLUTION IN UZBEKISTAN

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Annotation: This article analyzes the negative impact of industrial activity, which is one of the main sources of air pollution in the Republic of Uzbekistan. It highlights the harmful substances emitted into the air by large enterprises in the oil and gas, chemical, and metallurgical industries, as well as their dangerous consequences for the environment and health. The most polluted areas, the environmental measures taken by the government, and their effectiveness were also discussed. The article emphasizes the need to maintain an important balance between industrial development and ecological balance.

Аннотация: В данной статье анализируется негативное воздействие промышленной деятельности, являющейся одним из основных источников загрязнения воздуха в Республике Узбекистан. В нем освещаются вредные вещества, выбрасываемые в воздух крупными предприятиями нефтегазовой, химической, металлургической и других отраслей, а также их экологические и опасные последствия для здоровья. Также были обсуждены наиболее загрязненные территории, принимаемые правительством экологические меры и их эффективность. В статье подчеркивается необходимость сохранения важного баланса между промышленным развитием и экологическим балансом.

Keywords: air pollution, industrial waste, environmental problem, ecology of Uzbekistan, negative impact of industry, environment, industrial enterprises, environmental safety, health and pollution, environmental policy.

Ключевые слова: загрязнение воздуха, промышленные отходы, экологическая проблема, экология Узбекистана, негативное влияние промышленности, окружающая среда, промышленные предприятия, экологическая безопасность, здоровье и загрязнение, экологическая политика.

Air pollution is a global problem and one of the pressing environmental problems in Uzbekistan. Climate change, factors threatening public health, and the disruption of the ecological balance are among the negative consequences of industrial activity. Along with the rapid development of industry in Uzbekistan, the negative impact on air quality is also increasing. The leading industries in Uzbekistan are the oil and gas, chemical, energy, mining, and construction industries. Large enterprises operate in these sectors, many of which are based on outdated technologies. This leads to the release of many harmful substances into the air - SO₂, NO_x, CO, dust, heavy metal oxides, and other toxic gases.



According to statistics, the city of Tashkent, the Fergana Valley (in particular, Fergana, Andijan, Namangan regions), Navoi and Almalyk industrial zones are among the regions with a high level of air pollution. In particular, the waste from the Almalyk Mining and Metallurgical Combine and the Navoi Mining Industry causes significant damage to the environment. Polluted air directly harms not only the environment, but also human health. Respiratory diseases, allergies, cardiovascular diseases are common, especially among children and the elderly. According to the World Health Organization (WHO), air pollution is one of the main causes of premature death.

In recent years, a number of laws and programs have been adopted in Uzbekistan to improve the environmental situation. In 2023, millions of trees were planted as part of the "Green Space" project. The requirement to introduce technologies that meet environmental standards into industrial enterprises has also been strengthened. However, in practice, the sufficiency and implementation of these measures remains a pressing problem.



Summary:

Although industrial development is necessary for the country's economy, ensuring environmental sustainability is equally important. To reduce the negative impact of Uzbekistan's industry on air pollution, it is necessary to widely implement modern environmental technologies, strict control, and raise the environmental awareness of the population. Only then, along with economic growth, will environmental security be ensured.

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