

FACTORS ENSURING ECOLOGICAL SUSTAINABILITY IN THE REGIONAL ECONOMY

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Abstract: This article analyzes the theoretical and practical aspects of ensuring ecological sustainability in the regional economy. The interrelationship between maintaining ecological balance, rational use of natural resources, and economic development is scientifically substantiated. In addition, the main factors contributing to sustainable development in the regional economy are studied, including environmental policy, innovative technologies, green investments, and institutional mechanisms. Based on the results of the research, it is concluded that improving economic mechanisms, ensuring efficient use of resources, and developing an environmental management system play a crucial role in ensuring ecological sustainability.

Keywords: green economy, ecological sustainability, regional economy, sustainable development, environmental policy, green investments.

In the modern period, economic development processes have a direct impact on the state of the environment. Industrialization, urbanization, and intensive use of natural resources have led to the intensification of environmental problems. Therefore, organizing the development of the regional economy based on the principles of ecological sustainability has become one of the most urgent scientific and practical issues.

The concept of sustainable development aims to ensure harmony between economic growth, social welfare, and environmental balance. Within the framework of the regional economy, ensuring ecological sustainability plays an important role in the long-term development strategy of territories. This is because each region has its own characteristics in terms of natural resources, economic potential, and environmental challenges.

From this perspective, studying the factors that ensure ecological sustainability in the regional economy and developing effective mechanisms for their implementation becomes an important scientific task.

Ecological sustainability refers to the process of carrying out economic activities while preserving the ability of the natural environment to regenerate itself. This process involves not only economic growth but also environmental protection.

Within the framework of the regional economy, ecological sustainability is based on the following principles:

- rational use of natural resources;
- ensuring environmental safety;
- reduction and recycling of waste;
- increasing energy efficiency.

Ecological sustainability contributes not only to reducing environmental problems but also to increasing the long-term competitiveness of regional economies.

Main Factors Ensuring Ecological Sustainability

Natural resources are one of the most important factors of regional economic development. Rational use of resources helps maintain ecological balance. Efficient use of water, land, mineral resources, and energy sources increases economic efficiency while reducing environmental problems.

Modern technologies play a significant role in reducing environmental problems. Energy-saving technologies, waste-free production systems, and renewable energy sources are among the key tools for ensuring ecological sustainability.



For example, the development of solar and wind energy not only improves energy supply but also reduces the amount of harmful emissions released into the atmosphere.

Government policy plays an important role in ensuring ecological sustainability. Legislation aimed at environmental protection, ecological standards, and economic incentive mechanisms contribute to the reduction of environmental problems.

The introduction of environmental taxes, subsidies, and investment programs by the government stimulates green development in the regional economy.

Green investments are directed toward the introduction of environmentally friendly technologies, the development of renewable energy sources, and the modernization of ecological infrastructure.

Attracting investments to these areas not only ensures ecological sustainability but also contributes to job creation and economic growth.

Improving the environmental awareness of the population plays an important role in ensuring ecological sustainability. In regions where environmental culture is well developed, processes such as efficient use of resources, waste reduction, and environmental protection are implemented more effectively.

Ensuring ecological sustainability has a positive impact on the development of regional economies. In particular, it:

- ensures the long-term preservation of natural resources;
- increases economic efficiency;
- improves the investment climate;
- enhances the quality of life of the population.

Moreover, ensuring ecological sustainability also plays an important role in addressing global environmental problems.

Ensuring ecological sustainability in the regional economy is one of the key conditions for modern economic development. The results of the study show that rational use of natural resources, implementation of innovative technologies, effective environmental policies, and the development of green investments are necessary to ensure ecological sustainability.

Furthermore, taking environmental factors into account in regional development strategies and improving environmental management systems will ensure sustainable development of the regional economy. In the future, expanding cooperation between the government, business, and society and widely implementing the principles of the green economy will play an important role in strengthening ecological sustainability.

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