

GREEN BUILDING – THE BASIS OF A GREEN ECONOMY***Obilov Mirkomil Rashidovich****Djizzax Polytechnic Institute**Associate Professor of the Department of Economics and Management****Shirinov Komil****Student of the Djizzax Polytechnic Institute*

Annotation: This article will talk about the concept of green construction, its basic principles, advantages and the need for its introduction. On the basis of such principles as environmental sustainability, energy efficiency and rational use of resources, the construction sector is being modernized. The transition to green construction serves as an important tool in overcoming today's environmental and economic problems.

Key words: green construction, sustainable development, Ecology, Energy Efficiency, innovative technologies, environmental protection.

Annotatsiya: Mazkur maqolada yashil qurilish tushunchasi, uning asosiy tamoyillari, afzalliklari va joriy etilishining zarurati haqida so'z yuritiladi. Ekologik barqarorlik, energiya samaradorligi va resurslardan oqilona foydalanish kabi tamoyillar asosida qurilish sohasi modernizatsiya qilinmoqda. Yashil qurilishga o'tish bugungi kunning ekologik va iqtisodiy muammolarini bartaraf etishda muhim vosita bo'lib xizmat qiladi.

Kalit so'zlar: yashil qurilish, barqaror rivojlanish, ekologiya, energiya samaradorligi, innovatsion texnologiyalar, atrof-muhitni muhofaza qilish.

In the 21st century, humanity is increasingly faced with global environmental problems. Factors such as atmospheric pollution, climate change, and the limitation of natural resources pose not only environmental but also socio-economic risks. Therefore, the need to adhere to the principles of environmental sustainability in each sector is increasing. In particular, the construction industry, as one of the largest sectors of resource and energy consumption, must assume environmental responsibility.

Green construction is a construction approach aimed at the economical use of energy, water, and other resources with minimal damage to the environment. This concept is aimed at ensuring sustainability during the construction process and the building operation phase, and has become a requirement of today.

1. The concept and content of green construction

Green construction is the construction of buildings with long-term use, using environmentally friendly materials, with low energy and water consumption. It is based on the following principles:

Energy efficiency – use of renewable energy sources such as solar and wind;

Rational use of resources – use of recycled and local materials;

Environmental safety – reduction of harmful emissions, preservation of clean air and water resources;

Innovation – introduction of smart technologies, automated control systems.

Green building is not just an ecological construction, but a strategic approach that brings economic and social benefits.

2. Advantages of green building

Green building has many advantages over traditional construction methods:

Energy costs are reduced – heating and cooling costs of buildings are significantly reduced due to thermal insulation and energy-efficient technologies.

Water resources are saved – water use is optimized through rainwater collection and recycling systems.

Healthy indoor environment – user health is improved through air circulation, lighting, and air purification systems.

Real estate values increase – green buildings look more attractive to the market and increase investment attractiveness.

Jobs are created – the development and application of environmentally friendly technologies opens up new areas of employment.

3. Technologies used in green construction

Innovative technologies play an important role in green construction:

Passive solar design – maximizing natural lighting and heating through the location of the building and the glazing structure;

LED lighting systems – significantly saving electricity;

High-efficiency HVAC systems – automatic control of heating, ventilation and air conditioning systems;

Rainwater collection and recycling systems – optimizing water use;

Smart building systems – real-time management of energy consumption.4. Prospects for the development of green construction in Uzbekistan

The government of Uzbekistan has adopted a “Strategy for the Transition to a Green Economy” for the period up to 2030. This document identifies the production of environmentally friendly building materials, the construction of energy-efficient buildings, and the introduction of renewable energy sources as important directions.

Modern “green building” projects are being implemented in cities such as Jizzakh, Tashkent, and Samarkand. Some large facilities are being equipped with energy-saving panels, rainwater harvesting systems, and smart management systems.

It is also an urgent task to strengthen the regulatory framework, encourage environmental projects, and accelerate the introduction of environmental technologies by local construction companies.

Conclusion. Green construction is an important way not only to protect the environment, but also to increase economic efficiency, ensure human health, and leave a healthy ecological environment for future generations. In the conditions of Uzbekistan, the transition to green construction plays an important role not only in solving global environmental problems, but also in the modernization of the national economy.

Therefore, it is necessary to develop the concept of green construction, popularize related technologies and support it at the level of state policy.

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