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**“O‘ZBEKISTONDA BARQAROR RIVOJLANISH
MAQSADLARIGA ERISHISH VA YASHIL IQTISODIYOTNI
RIVOJLANTIRISHNING ISTIQBOLLI YO‘NALISHLARI”**

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A METHOD FOR EVALUATING GROWTH IN A GREEN ECONOMY CONSIDERING LIMITED RESOURCES AND ENVIRONMENTAL IMPACT

МЕТОД ОЦЕНКИ РОСТА В ЗЕЛЕННОЙ ЭКОНОМИКЕ С УЧЕТОМ ОГРАНИЧЕННЫХ РЕСУРСОВ И ВОЗДЕЙСТВИЯ НА ОКРУЖАЮЩУЮ СРЕДУ

YASHIL IQTISODIYOTDAGI O'SISHNING CHEKLANGAN RESURSLAR VA ATROF-MUHITGA TA'SIRINI HISOBGA OLGAN HOLDA BAHOLASH METODI

Annotatsiya: Maqolada dunyoning barcha mamlakatlarida raqamli iqtisodiyot rivojlanib borayotgani, shuningdek, O'zbekistonda yashil iqtisodiyotni rivojlantirish, yashil iqtisodiyotga o'tishni jadallashtirish zarurligi qayd etilgan.

Kalit so'zlar: yashil iqtisodiyot, iqtisodiy o'sish, barqaror rivojlanish, axborot-kommunikatsiya tizimi (AKT), iqtisodiy o'sish sifati, raqamli indeks, rivojlangan mamlakatlar, yalpi ichki mahsulot.

Abstract: In the article, it is noted that the digital economy is developing worldwide, and that it is necessary to develop the green economy and accelerate the transition to a green economy in Uzbekistan.

Keywords: Digital economy, economic growth, sustainable development, information and communication system (ICT), quality of economic growth, digital index, developed countries, gross domestic product

Аннотация: В статье отмечается, что во всем мире развивается цифровая экономика, и что необходимо развивать зеленую экономику и ускорят переход к зеленой экономике в Узбекистане.

Ключевые слова: Цифровая экономика, экономический рост, устойчивое развитие, информационно-коммуникационная система (ИКТ), качество экономического роста, цифровой индекс, развитые страны, валовой внутренний продукт.

Introduction (Vvedenie/ Kirish). The directions for improving the strategy to ensure the quality of economic growth have been developed, along with an analysis of how various countries ensure the quality of economic growth and ways to implement these approaches in Uzbekistan's economy. Additionally, the prospects for enhancing the positive impact of quality

factors on economic growth in the Republic of Uzbekistan are outlined. Furthermore, the study has developed a methodology for calculating a comprehensive assessment of economic growth, which consists of four stages. In the first stage, factors influencing economic growth are identified from a set of factors suitable for the process.

Review of literature related to the topic (Obzor literatury, svyazannoy s temoy/ Mavzuga oid adabiyotlar sharhi). Globally, problematic situations related to climate change negatively impact the effectiveness of economic reforms being implemented in our country. Ecological issues, the depletion of natural capital, shortages of freshwater, food, and energy resources, and the expansion of poverty are considered the main negative consequences of the "brown" economy. For instance, foreign scholars Y. Lyaskovskaya and K. Grigoreva have examined the process of transitioning to a "green" economy, as well as models of "sustainable development," "inclusive development," and "green" and "brown" economies. An analysis of international experiences from developed countries such as Germany, France, Italy, the Netherlands, Japan, and China shows that these nations have undertaken large-scale, long-term projects to fully transition to a circular economy. These efforts include adopting regulatory and legal documents to establish a "green" economy, recycling and disposing of waste, establishing state investment funds, managing the environment, and actively pursuing related initiatives. Among Uzbek scholars, B. B. Shoyqulov's research elaborates on the essence and meaning of concepts such as "green" economy, "green development," "green space," and "green technologies."

Methodology (Metodologiya/ Tadqiqot usullari). This research extensively employed scientifically grounded statistical analysis, literature review, comparative analysis, and other approaches and methods. In particular, the systematic analysis method was used in analyzing relevant literature and sources.

Analysis and results (Analiz i rezultaty. Tahlil va natijalar). The methodology for calculating a comprehensive assessment of economic growth consists of four stages. In the first stage, factors influencing economic growth are selected from a set of factors suitable for the process. Using these identified factors, economic growth models specific to the Republic of Uzbekistan are determined under extensive, intensive, and digital economy conditions. The advantage of this methodology lies in its ability to calculate economic growth not only through quantitative indicators but also by incorporating qualitative indicators. This is achieved by evaluating responses provided by respondents through questionnaires, assessed by selected experts.

table 1

Calculation methodology based on the generalized assessment of economic growth.

SET OF FACTORS AFFECTING ECONOMIC GROWTH	
EXTENSIVE	1. Investment in fixed capital. 2. Value of fixed assets. 3. Number of employed people in the economy. 4. Number of enterprises and organizations. 5. Income derived from resources.
INTENSIVE	1. Labor productivity. 2. Capital productivity. 3. Expenditures on scientific research and development. 4. Number of higher education graduates.
DIGITAL	1. Total number of internet users. 2. Number of mobile communication subscribers. 3. Number of enterprises and organizations connected to the internet. 4. Number of broadband internet subscribers.

Industrial development contributes to global warming and intensifies natural disasters. Countries like China consume vast amounts of energy to sustain economic growth, confirming the "environmental Kuznets curve" theory: economic growth initially increases pollution, but environmental awareness grows over time.

"Green" technologies can help address this issue, though they come with high costs. However, according to a McKinsey report, these costs are expected to decrease in the future, and while the shift to green technologies in industry may eliminate some jobs, it will also create new ones.

Global climate change also affects industry. For example, in 2022, drought in Europe halted river transport, disrupting the supply of industrial goods and causing billions of euros in losses.

While the ecological footprint of industry may yield short-term economic benefits, it causes long-term damage. The economic losses from pollution and resource depletion far exceed the gains. If emissions continue at the current rate, global GDP could shrink by 10% by 2060.²⁷

There are three directions to reduce the ecological footprint of industry:

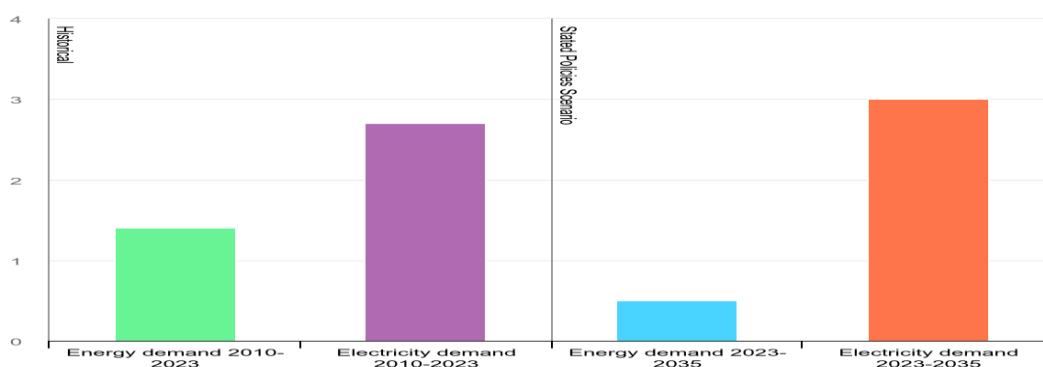
Governments	Can adopt laws to encourage industries to transition to clean technologies.
Companies	Can transform themselves to minimize environmental harm.
Scientific advancements	Are needed to develop and make clean technologies more affordable.

Note: Reducing the ecological footprint of industry is challenging, but it is essential for our future.

Climate change is increasing natural disasters, causing damage to the global economy. If we do not address this issue, the economy could lose up to 18% in the future. Green investments can help solve this problem. Traditional fuel resources are depleting, and their use pollutes the air. We need to transition to clean energy sources such as solar, wind, and water. In 2023, more than \$500 billion was invested in the clean energy sector²⁸.

Table 1

Growth of Global Investments in Renewable Energy (Energy Demand) from 2010 to 2023



The UN's goal is to halt climate change and promote economic development. To achieve this, governments and companies must invest more in the clean energy sector. Transitioning to clean energy sources (solar, wind, water) will help develop our economy and reduce air pollution. In 2023, significant investments were made worldwide in clean energy. Now, everyone—governments and companies alike—must focus more on this sector to ensure a better life in the future.

²⁷ According to OECD calculations, https://www.researchgate.net/publication/344665936_Renewable_Energy_Investment_in_Manufacturing_An_Overview_and_Case_Studies

²⁸ According to IEA data, <https://www.iea.org/data-and-statistics/charts/annual-energy-and-electricity-demand-growth-historical-and-in-the-stated-policies-scenario-2010-2035>

In 2023, global green investments reached \$1.1 trillion, a significant increase from \$300 billion in 2010. More than half of these investments were directed to Europe and China.

Green investments stimulate economic growth. Every dollar invested in renewable energy generates \$3–8 in economic benefits, with an expected 24 million new jobs in this sector by 2030.

Green investments in industry are crucial for fighting climate change, reducing emissions, and ensuring sustainable economic development. Industry accounts for roughly 30% of global greenhouse gas emissions, making green technology investments a cornerstone of international organizations' strategies.

Green Investments: Global Analysis

*World Bank: In 2023, global green investments reached \$1.1 trillion, with \$440 billion (40%) directed to industry. Decarbonizing industry by 2030 requires \$3–4 trillion annually. These investments yield economic benefits by preventing losses from climate change damage.

<https://www.worldbank.org>

*UN (UNEP): In 2023, renewable energy and green technologies reduced industrial emissions by 2.5 billion tons of CO₂, accounting for 7% of global emissions. This reduction cuts industrial costs by 20–30%. <https://www.unep.org>

*International Energy Agency (IEA): In 2023, \$500 billion was invested in renewable energy for industry. This sector is expected to reduce emissions by 40% by 2030. Energy plays a key role in cutting costs and boosting competitiveness. <https://www.iea.org/>

*International Labour Organization (ILO): In 2023, green investments supported 12 million jobs in industry, projected to reach 24 million by 2030. Meanwhile, traditional sectors may lose 6 million jobs. Green investments diversify the labor market and drive economic growth. <https://www.ilo.org>

*OECD: Green technologies reduce industrial operating costs by 15–20%, though initial investment costs remain high. For industrial enterprises, green investments enhance long-term profitability, but developing countries need financial support. <https://www.oecd.org>

Economic Analysis Results

- Green investments reduce industrial emissions (up to 40%), mitigate natural disaster damages (annually \$270 billion), and ensure efficient resource use.

- High initial costs (\$3–4 trillion annual global demand) and technological uncertainties (e.g., hydrogen energy) slow the process.

- World Bank and UN projects (e.g., \$182 million for "Rural Infrastructure Development") support green industrial growth, but broader coverage requires private sector involvement and government policy.

Conclusion (Zakluchenie/ Xulosa)

In conclusion, developing a scenario model that ensures analysis, encompasses all sectors of economic activity, and enables the creation of scenario options for short- and long-term forecasts to develop strategies and macroeconomic policies is one of the important tasks for many.

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THE ROLE OF THE GREEN ECONOMY IN THE TRANSITION TO SUSTAINABLE DEVELOPMENT AND ITS IMPACT ON SOCIO-ECONOMIC GROWTH

Abstract: *In an era marked by pressing global challenges such as climate change, resource depletion, and environmental degradation, the pursuit of sustainable development has emerged as a critical imperative. The green economy, as an innovative framework, plays a pivotal role in achieving sustainability by harmonizing economic growth, environmental stewardship, and*