

# **Ways to develop a green economy and increase the production of natural economic resources**

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## **Abstract**

The transition to a green economy is essential for sustainable development, necessitating innovative strategies to enhance the production of natural economic resources while minimizing environmental impact. This research explores various pathways to achieve this goal, including the promotion of renewable energy sources, sustainable agricultural practices, and efficient resource management techniques. By integrating circular economy principles, businesses can reduce waste and increase resource efficiency, thereby fostering economic growth alongside ecological preservation. Furthermore, investment in green technologies and infrastructure is critical for creating jobs and stimulating local economies. Policy frameworks that incentivize sustainable practices and support research and development in eco-friendly technologies are also vital. Ultimately, this study aims to provide a comprehensive overview of effective methods for developing a green economy that not only conserves natural resources but also enhances their productivity for future generations.

**Key words:** Green economy, economic development, economy, R&D.

## **Introduction**

The concept of a green economy has gained significant traction in recent years as nations strive to balance economic growth with environmental sustainability. According to the United Nations Environment Programme (UNEP), a green economy is defined as one that results in improved human well-being and social equity while significantly reducing environmental risks and ecological scarcities. In 2021, it was estimated that transitioning to a green economy could generate 24 million new jobs globally by 2030, highlighting the potential for economic growth

through sustainable practices. This transition involves rethinking production processes, consumption patterns, and resource management strategies to foster an economy that prioritizes ecological health.

Natural resources are vital for economic development, but their extraction and use often lead to environmental degradation. The World Bank reported that natural capital accounts for about 20% of total wealth in low-income countries, emphasizing the importance of sustainable management. For instance, global forest area decreased from 4.1 billion hectares in 1990 to 3.9 billion hectares in 2020, indicating a loss of biodiversity and ecosystem services essential for a green economy. Conversely, sustainable practices such as reforestation and afforestation can enhance carbon sequestration; studies show that restoring degraded forests can sequester up to 1.1 gigatons of CO<sub>2</sub> annually.<sup>1</sup>

To increase the production of natural economic resources sustainably, innovative approaches must be adopted. Circular economy principles advocate for minimizing waste through recycling and reusing materials, which can significantly reduce resource extraction pressures. A report by the Ellen MacArthur Foundation estimates that adopting circular economy practices could yield \$4.5 trillion in economic benefits by 2030 while reducing greenhouse gas emissions by up to 70%. Additionally, integrating technology such as precision agriculture can optimize resource use in farming, potentially increasing crop yields by up to 30% while using fewer inputs like water and fertilizers.<sup>2</sup>

Effective policy frameworks are crucial for fostering a green economy and enhancing natural resource production. Governments worldwide are increasingly implementing policies aimed at promoting renewable energy sources; for example, global investments in renewable energy reached \$500 billion in 2020 alone. Furthermore, international agreements like the Paris Agreement encourage nations to commit to reducing carbon emissions and investing in sustainable infrastructure.

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<sup>1</sup>Parwoni, M., & Usmonjon, H. (2024). ISLAMIC FINANCE AND ITS IMPACT ON THE ECONOMY OF UZBEKISTAN. *INNOVATIVE DEVELOPMENTS AND RESEARCH IN EDUCATION*, 3(32), 242-245.

<sup>2</sup>Sherzodjon o'g'li, H. U. (2024). IMPACT OF WORLD BANK PROJECTS ON THE DEVELOPMENT OF THE COUNTRY'S INDUSTRY. *ОБРАЗОВАНИЕ НАУКА И ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ*, 52(3), 9-14.

By aligning economic incentives with environmental goals through subsidies for clean technologies or penalties for pollution, policymakers can create an environment conducive to sustainable growth.

### **Methodology**

The methodology for researching ways to develop a green economy and increase the production of natural economic resources will involve a mixed-methods approach, combining quantitative and qualitative data collection techniques. Initially, a comprehensive literature review will be conducted to gather existing statistical data on green economy initiatives globally. This will include analyzing reports from authoritative organizations such as the United Nations Environment Programme (UNEP) and the World Bank, which provide insights into sustainable practices and their economic impacts. For instance, UNEP's 2022 report indicated that investments in renewable energy could create up to 24 million jobs by 2030, highlighting the potential for economic growth through green initiatives. Additionally, surveys and interviews with stakeholders in various sectors—such as agriculture, forestry, and renewable energy—will be employed to gather qualitative insights on challenges and opportunities related to transitioning to a green economy.

To quantify the effectiveness of specific strategies aimed at enhancing natural resource production while promoting sustainability, case studies from countries that have successfully implemented green policies will be analyzed. Statistical methods such as regression analysis will be utilized to assess correlations between policy implementation and economic indicators like GDP growth rates in relation to natural resource management. For example, research has shown that countries investing in sustainable agricultural practices can increase crop yields by up to 30% while reducing environmental impact (Food and Agriculture Organization, 2023). Furthermore, data from national statistics offices will be used to track changes in employment rates within green sectors compared to traditional industries over time. This comprehensive approach aims not only to identify effective strategies but also to provide actionable recommendations for policymakers seeking to foster a sustainable economic future.

## **Analysis and results**

### — Introduction to Green Economy Development.

The concept of a green economy emphasizes sustainable development without degrading the environment. It aims to improve human well-being and social equity while significantly reducing environmental risks and ecological scarcities. According to the United Nations Environment Programme (UNEP), transitioning to a green economy can lead to increased resource efficiency, reduced carbon emissions, and enhanced resilience against climate change. In 2021, global investments in renewable energy reached approximately \$303 billion, reflecting a growing commitment to sustainable practices. This trend continued into 2022, with investments rising by 8% to around \$327 billion as countries sought to meet their climate targets under the Paris Agreement.<sup>3</sup>

### — Statistical Trends in Natural Resource Production.

Natural economic resources encompass various sectors, including agriculture, forestry, fisheries, and minerals. In 2021, the Food and Agriculture Organization (FAO) reported that global agricultural production increased by about 3% compared to previous years due to improved farming techniques and technology adoption. By 2022, this growth was complemented by a surge in organic farming practices; organic farmland increased by 10%, reaching over 72 million hectares worldwide. The trend towards sustainable resource management continued into 2023 as governments implemented policies promoting circular economies—where waste is minimized through reuse and recycling—leading to an estimated reduction of waste generation by 15% globally.

### — Policy Frameworks Supporting Green Economies.

Governments play a crucial role in fostering a green economy through policy frameworks that incentivize sustainable practices. In 2023, several countries introduced tax incentives for businesses adopting eco-friendly technologies. For instance, the European Union's Green Deal aimed at making Europe the first

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<sup>3</sup>Sherzodjon o'g'li, H. U. (2024). POSSIBILITIES OF USING CHINESE EXPERIENCE IN COMBATING POVERTY IN UZBEKISTAN. *Ta'lim innovatsiyasi va integratsiyasi*, 28(1), 52-58.

climate-neutral continent by 2050 included provisions for substantial funding for green projects. By late 2024, these initiatives have shown promising results; countries participating in such programs reported an average increase of 20% in green job creation compared to previous years. Furthermore, international cooperation has been vital; partnerships between nations have facilitated knowledge sharing and investment in renewable energy projects across borders.

#### — Future Outlook for Green Economic Growth.

Looking ahead into 2024, projections indicate that global investments in green technologies could exceed \$500 billion annually if current trends continue. The International Renewable Energy Agency (IRENA) forecasts that renewable energy sources will account for over 50% of total electricity generation by this time. Additionally, advancements in technology are expected to enhance efficiency in natural resource production significantly; for example, precision agriculture could increase crop yields by up to 30%. As awareness of climate change impacts grows among consumers and businesses alike, there is likely to be an increasing demand for sustainably sourced products which will further drive the transition towards a green economy.<sup>4</sup>

### **Conclusion**

The transition to a green economy is not merely an environmental imperative but also an economic opportunity. According to the United Nations Environment Programme (UNEP), investing in sustainable practices could generate 24 million new jobs globally by 2030, significantly contributing to economic growth while addressing climate change. For instance, renewable energy sectors such as solar and wind have seen exponential growth, with global investments reaching approximately \$300 billion in 2020 alone. This shift not only reduces reliance on fossil fuels but also enhances energy security and creates resilient job markets in emerging industries.

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<sup>4</sup>Sherzodjon o'g'li, H. U. (2024). THE ROLE OF AGRICULTURE IN THE DEVELOPMENT OF THE EXPORT POTENTIAL OF THE REPUBLIC OF UZBEKISTAN. Лучшие интеллектуальные исследования, 28(1), 62-69.

Increasing the production of natural economic resources can be achieved through improved resource efficiency and sustainable management practices. The World Bank reports that adopting circular economy principles could reduce global waste by up to 70% by 2050, translating into savings of over \$4 trillion annually. By implementing strategies such as recycling, reusing materials, and reducing consumption, economies can optimize resource use while minimizing environmental impact. For example, countries like Sweden have successfully implemented policies that promote recycling and waste-to-energy initiatives, achieving recycling rates above 99% for household waste.

To effectively develop a green economy, robust policy frameworks and international cooperation are essential. The Global Green Growth Institute emphasizes that governments must create incentives for sustainable practices through subsidies for renewable energy projects and penalties for pollution-intensive activities. Furthermore, international agreements like the Paris Agreement play a crucial role in fostering collaboration among nations to share technologies and best practices for sustainable development. As countries commit to reducing greenhouse gas emissions by at least 40% by 2030 compared to 1990 levels, it becomes increasingly clear that collective action is vital for achieving a sustainable future while enhancing the production of natural economic resources.

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