DEVELOPING A GREEN ECONOMY THROUGH INNOVATIVE TECHNOLOGIES

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Annotation: *Innovative technologies are one of the key drivers of green economic development. They contribute to the implementation of energy-efficient systems, the preservation of ecological balance, and the rational use of natural resources. Modern technologies not only promote economic growth but also ensure environmental protection and support sustainable development.*

Keywords: *green economy, "green‖ growth, energy balance, energy balance diversification.*

The strategy for the transition to a green economy of the Republic of Uzbekistan (2019-2030) was approved by the presidential resolution PQ-4477. Within the framework of the strategy, such goals are set as: improving energy efficiency, rational use of natural resources, reducing greenhouse gas allocations. Innovative technologies make it possible to use natural resources sparingly. For example, resource waste is reduced through water treatment systems, energy-saving technologies, or waste-processing equipment. New technologies play an important role in reducing harmful emissions, cleaning the air, water and soil. In this way, an ecological balance is maintained. Innovation harmonizes economic growth with environmental security. This serves to maintain a clean and healthy environment for future generations. On the basis of green technologies, new industries will appear – for example, renewable energy, waste processing, “smart” agriculture, etc. This increases employment technologies play an important role in reducing harmful

emissions, cleaning the air, water and soil. In this way, an ecological balance is maintained. Innovation harmonizes economic growth with environmental security. This serves to maintain a clean and healthy environment for future generations. On the basis of green technologies, new industries will appear – for example, renewable energy, waste processing, "smart" agriculture, etc. This increases employment. A green economy is a global status quo of universal and transformative change. This requires a radical change in government priorities. This change is not easy to implement, but it is necessary if we want to achieve sustainable development goals.

In order to gradually implement the tasks set out in the strategy of action on the five priority areas of development of the Republic of Uzbekistan in 2017-2021, as well as to fulfill the obligations of the Paris Agreement adopted on December 12, 2015 and transfer the country to a "green" economy, the following are defined as the main tasks of the Republic of Uzbekistan: Accelerate the processes of technological modernization and develop effective financial mechanisms in order to increase the energy efficiency of the economy and ensure the rational use of Natural Resources. Implementation of "green" criteria based on advanced international standards in the planning of public investments and budget expenditures. Support the implementation of pilot projects in the directions of the "green" economy, expansion of mechanisms of State stimulation for this, development of Public-Private Partnership and strengthening cooperation with international financial institutions. Improving the system of training and retraining the necessary personnel for the "green" economy by increasing investment in the field of education, developing cooperation with leading foreign educational institutions and research centers. Implementation of comprehensive measures to mitigate the consequences of the environmental crisis that occurred in the Aral Sea area and improve the living conditions of the population. It is envisaged to expand international cooperation in the field of the "green" economy, including the exchange of

experience and support of joint initiatives through the conclusion of bilateral and multilateral agreements.

Based on the strategy set for 2030, solar and wind farms are being built (for example, in Navoi, Bukhara, Kashkadarya regions). Renewable energy projects are underway in cooperation with international companies such as Masdar, ACWA Power, Total Energies. The goal is to obtain 25-30% of electricity from renewable sources by 2030. In agriculture, drip irrigation systems are being expanded. Water reuse technologies are being introduced. Environmental balance restoration projects are underway in the Amudarya and Syrdarya basins. A waste separation collection system is being implemented under local municipalities. Ecological culture is being increased through clean urban and eco-neighborhood programs. The number of enterprises that process plastic waste is growing. Customs privileges were granted to encourage electric cars and hybrid vehicles. The number of electric buses in Tashkent is increasing. Waste reduction is envisaged through Green Road Traffic programs.

The amount of electricity generated by solar and wind power plants in Uzbekistan since the beginning of 2024 come to 3 billion kWh. Today, in 7 regions of the country, 9 solar photovoltaic plants with a total capacity of 2.4 GW, as well as one wind farm, produce “green” energy. Up to this point, 2 billion 677.8 million kW were generated by solar power plants and 322.2 million kW by wind power plant. According to the Ministry of energy, these indicators are expected to reach 5 billion 740 million kW by the end of the year at the expense of these power plants and new generation capacities (“green” stations). International experiments show that the leaders in growth rates in 2022 were Germany, Sweden, Finland, France, Great Britain and Spain. European wind stations produced 489 terawatt/h of electricity in 2022. This covered 17% of EU-27 UK electricity consumption. 87% of the new wind capacity built in Europe last year was on land.

Innovative technologies are one of the most important factors in the development of the green economy. They help to effectively use resources, reduce waste, establish energy-efficient production and maintain an ecological balance. The introduction of green technologies will ensure sustainable economic growth, creating new jobs without harm to the environment. Therefore, the support of innovations and their application to all sectors of the economy will serve the ecological sustainable development of Uzbekistan. It is difficult to imagine our future of our economy without innovative technologies. In order to ensure the stabilization of the economy, the use of alternative energy and the implementation of programs based on decisions made by our head of state, we will achieve the long-term effect of the development of the renewable energy sector in the future. This would have preserved valuable assets for our future generation by using fossil resources wisely.

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