

# Yashil

## IQTISODIYOT TARAQQIYOT

Ijtimoiy, iqtisodiy, siyosiy, ilmiy, ommabop jurnal

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- 08.00.01 Iqtisodiyot nazariyasi
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- 08.00.03 Sanoat iqtisodiyoti
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# **Yashil** IQTISODIYOT va TARAQQIYOT

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# SUSTAINABLE DEVELOPMENT AND ENVIRONMENTAL ECONOMICS IN UZBEKISTAN: A FOCUS ON CARBON PRICING AND RENEWABLE ENERGY

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**Abstract:** The integration of sustainable development practices and environmental economics principles marks a significant positive stride for Uzbekistan. By prioritizing the adoption of modern innovative technologies, the nation aims to enhance its macroeconomic indicators and propel socio-economic development forward. The effective incorporation of these innovative technologies into various sectors promises to elevate the quality and efficacy of management decisions, streamline information processes, and improve service delivery. This, in turn, fosters advancements in socio-economic spheres, scientific endeavors, technological innovations, and cultural enrichment, among other facets of life. By infusing information technology into all facets of its operations and embracing modern innovative solutions, Uzbekistan anticipates a notable boost in its gross domestic product, paving the way for a more sustainable and prosperous future.

**Key words:** Environmental economics, Uzbekistan, carbon pricing, sustainable development, renewable energy.

**Annotatsiya:** Barqaror rivojlanish amaliyoti va atrof-muhit iqtisodiyoti tamoyillarining integratsiyalashuvi O'zbekiston uchun sezilarli ijobjiy qadamdir. Mamlakatimiz zamonaviy innovatsion texnologiyalarni joriy etishga ustuvor ahamiyat qaratib, o'zining makroiqtisodiy ko'rsatkichlarini yuksaltirish va ijtimoiy-iqtisodiy taraqqiyotni olg'a siljishni maqsad qilgan. Ushbu innovatsion texnologiyalarning turli tarmoqlarga samarali kiritilishi boshqaruv qarorlarining sifati va samaradorligini oshirish, axborot jarayonlarini soddalashtirish va xizmatlar ko'rsatishni yaxshilashni va'da qiladi. Bu esa, o'z navbatida, hayotning boshqa jabhalari qatori ijtimoiy-iqtisodiy sohalarda, ilmiy izlanishlarda, texnologik innovatsiyalarda va madaniyatning boyitilishida ham rag'batlantirmoqda. Axborot texnologiyalarini o'z faoliyatining barcha jabhalariga singdirish va zamonaviy innovatsion yechimlarni o'zlashtirish orqali O'zbekiston yalpi ichki mahsulotida sezilarli o'sishni kutmoqda, bu esa yanada barqaror va farovon kelajakka yo'l ochib beradi.

**Kalit so'zlar:** Atrof-muhit iqtisodiyoti, O'zbekiston, uglerod narxları, barqaror rivojlanish, qayta tiklanadigan energiya.

**Аннотация:** Интеграция практик устойчивого развития и принципов экологической экономики знаменует собой значительный позитивный шаг для Узбекистана. Отдавая приоритет внедрению современных инновационных технологий, страна стремится улучшить свои макроэкономические показатели и стимулировать социально-экономическое развитие. Эффективное внедрение этих инновационных технологий в различные сектора обещает повысить качество и эффективность управленческих решений, оптимизировать информационные процессы и улучшить предоставление услуг. Это, в свою очередь, способствует прогрессу в социально-экономической сфере, научной деятельности, технологическим инновациям и культурному обогащению, а также другим аспектам жизни. Внедряя информационные технологии во все аспекты своей деятельности и применяя современные инновационные решения, Узбекистан ожидает заметного увеличения своего валового внутреннего продукта, открывая путь к более устойчивому и процветающему будущему.

**Ключевые слова:** Экономика окружающей среды, Узбекистан, ценообразование на выбросы углерода, устойчивое развитие, возобновляемые источники энергии.

## 1. INTRODUCTION

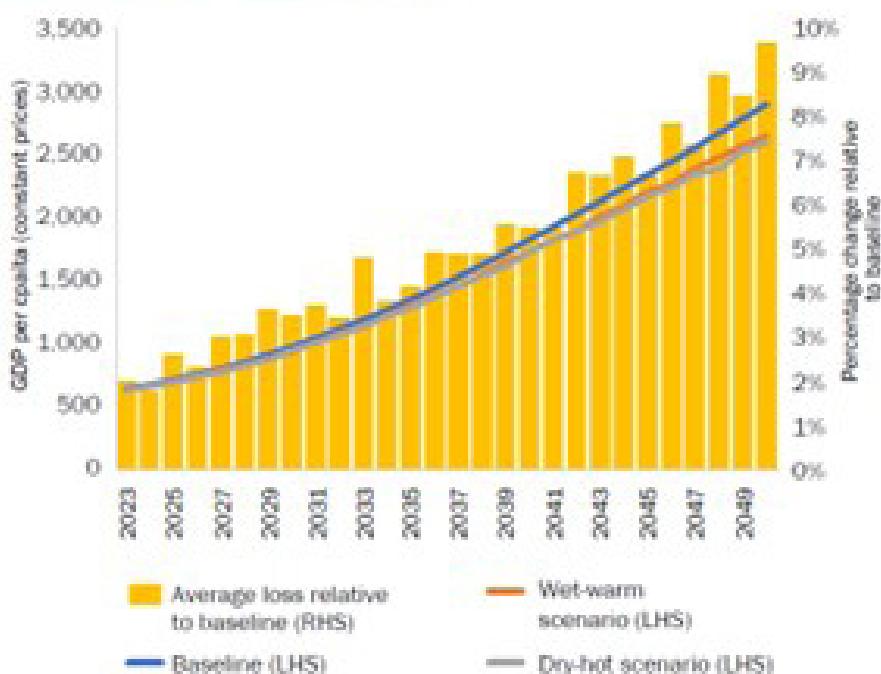
This article explores the intersection of economics and environmental sustainability in Uzbekistan. It delves into the challenges and opportunities of implementing carbon pricing mechanisms, promoting sustainable development practices, and harnessing the economics of renewable energy sources. The analysis aims to provide insights into Uzbekistan's efforts towards a greener and more economically resilient future.

Uzbekistan, already the most populous nation in Central Asia, is projected to exceed 50 million inhabitants by 2050. With a youthful and rapidly expanding population in need of employment opportunities and skills



development, coupled with heavy reliance on depleting natural resources, there's a drive toward adopting a revolutionary development approach. Launched by the President in 2016 and ongoing, extensive reforms aim to transition Uzbekistan into an upper-middle-income country with a modern economy driven by the private sector. While progress has been made in policy frameworks over the past seven years, there is still much work ahead. Economic growth has been notable, and poverty rates have dropped significantly, but the creation of employment opportunities has been inadequate. Following an initial phase of groundbreaking reforms, Uzbekistan now faces the challenge of implementing more rigorous reforms to achieve enduring improvements for its citizens, a task further complicated by the pressures of climate change.

**FIGURE ES1. HOWEVER CLIMATE CHANGE EVOLVES, ITS IMPACTS ON GDP ARE SIMILAR, SLOWING GROWTH**



## 2. LITERATURE REVIEW

As Uzbekistan strides forward on its path of economic growth and development, the echoes of environmental sustainability resonate ever louder. In the heart of Central Asia, this nation grapples with a unique set of challenges and opportunities at the crossroads of economics and the environment. From the arid expanses of the Kyzylkum Desert to the bustling urban centers, Uzbekistan's journey towards a greener, more resilient future is gaining momentum.

At the core of this journey lies the realm of environmental economics, where policies and practices converge to harmonize economic progress with ecological preservation. Water scarcity, pollution, and the conservation of biodiversity stand as formidable challenges, demanding innovative solutions and concerted efforts. Carbon emissions, a global concern, prompt discussions on carbon pricing mechanisms that can steer industries towards cleaner, more sustainable practices.

In this article, we embark on a journey to explore Uzbekistan's endeavors in environmental economics, with a keen focus on carbon pricing, sustainable development strategies, and the burgeoning economics of renewable energy sources. This exploration not only sheds light on the current landscape but also envisions a future where economic prosperity and environmental stewardship go hand in hand, defining a path towards enduring prosperity for Uzbekistan and its people.

Uzbekistan, like many countries, faces a myriad of environmental challenges that require strategic planning and concerted action. One of the most pressing issues is water scarcity, exacerbated by factors such as inefficient irrigation practices and the drying up of the Aral Sea. This scarcity not only affects agriculture, a vital sector of Uzbekistan's economy, but also impacts access to clean drinking water for its population.

Pollution is another significant challenge, especially in urban areas where industrial activities and transportation contribute to air and water pollution. The quality of air and water directly affects public health, leading to



respiratory illnesses and other health concerns. Additionally, pollution damages ecosystems and biodiversity, disrupting the delicate balance of natural habitats.

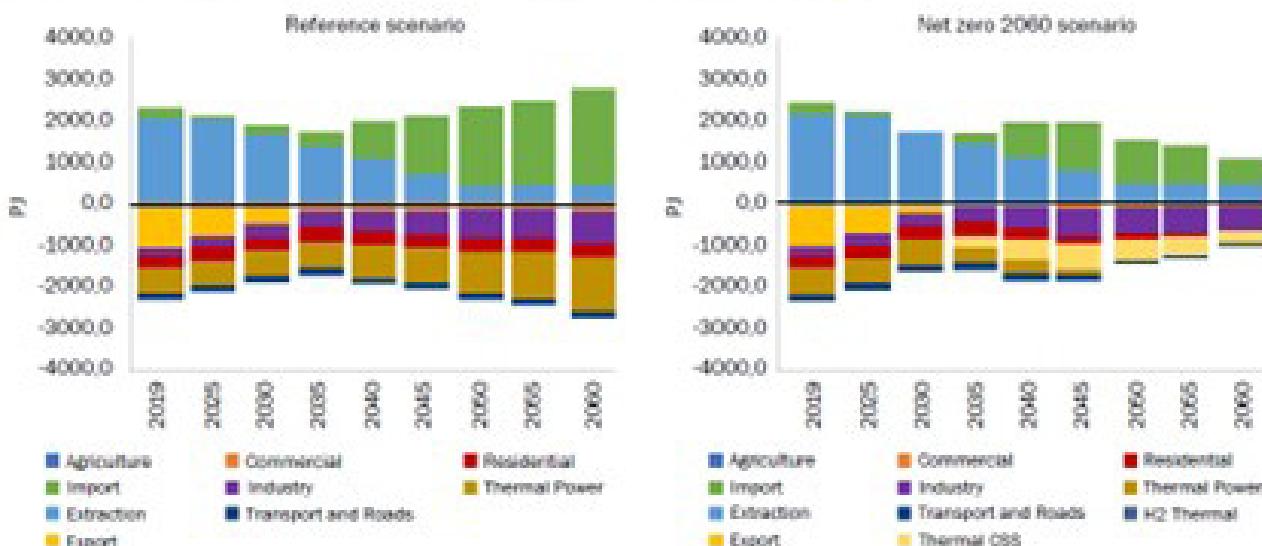
Furthermore, Uzbekistan grapples with the loss of biodiversity, with species and ecosystems facing threats from habitat destruction, pollution, and climate change. Preserving biodiversity is crucial not only for ecological stability but also for the cultural and economic value it holds for local communities.

Addressing these environmental challenges requires a multi-faceted approach, including implementing sustainable water management practices, reducing pollution through stricter regulations and cleaner technologies, and conserving biodiversity through protected areas and conservation efforts. By addressing these challenges, Uzbekistan can pave the way for a more sustainable and resilient future for its people and the environment.

### 3. EMPIRICAL FINDINGS

The adoption of carbon pricing mechanisms is vital for motivating industries to curb their carbon emissions and transition towards cleaner technologies. In Uzbekistan's context, exploring carbon pricing tools such as carbon taxes or cap-and-trade systems is paramount for internalizing the environmental costs associated with carbon pollution. By implementing a carbon tax, directly levied on the carbon content of fossil fuels, or by establishing a market-based cap-and-trade system where emission permits are traded, Uzbekistan can create powerful economic incentives for businesses to reduce their carbon footprint and embrace sustainable practices. Such initiatives not only contribute to global efforts in combatting climate change but also foster innovation, job creation, and long-term economic resilience within the country. Additionally, revenue generated from carbon pricing can be reinvested into renewable energy projects, environmental conservation efforts, and initiatives aimed at assisting communities in adapting to the impacts of climate change. Through proactive implementation of carbon pricing mechanisms, Uzbekistan can position itself as a leader in sustainable development while mitigating the adverse effects of climate change on both the environment and the economy.

**FIGURE ES2. NATURAL GAS CONSUMPTION DECLINES BY 40 PERCENT IN NZ2060 SCENARIO COMPARED WITH THE REFERENCE SCENARIOS: NATURAL GAS DOMESTIC PRODUCTION, IMPORTS, AND USES**



Sustainable development represents a holistic approach that integrates economic prosperity, environmental stewardship, and social inclusivity. In Uzbekistan, embracing sustainable development initiatives is imperative for achieving long-term resilience and prosperity. Central to this approach is the notion of balancing economic growth with environmental preservation and social equity.

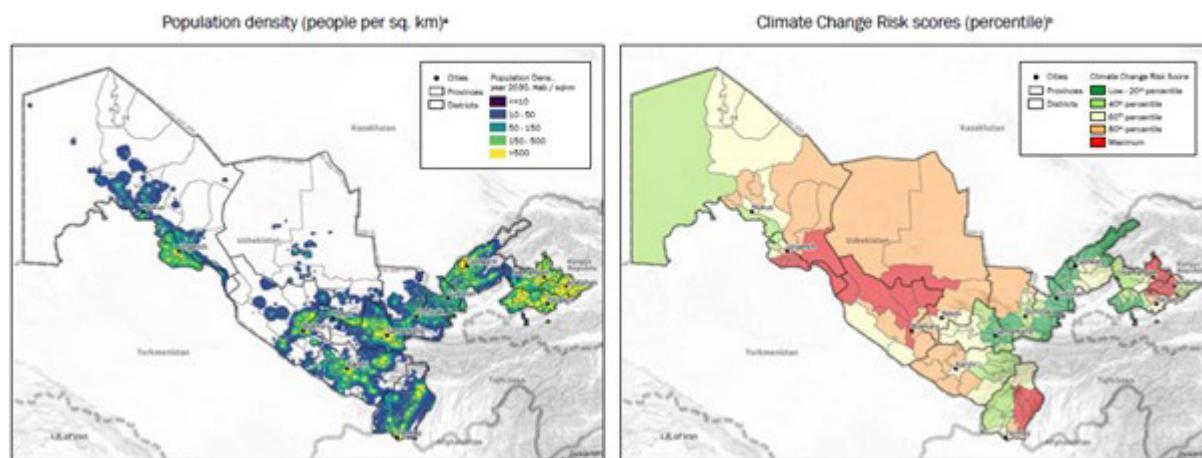
One avenue for sustainable development in Uzbekistan is the promotion of sustainable agriculture practices. This involves advocating for methods that enhance productivity while minimizing negative environmental impacts, such as the excessive use of fertilizers or pesticides. Implementing organic farming techniques, crop rotation, and agroforestry systems can improve soil health, conserve water resources, and mitigate greenhouse gas emissions.



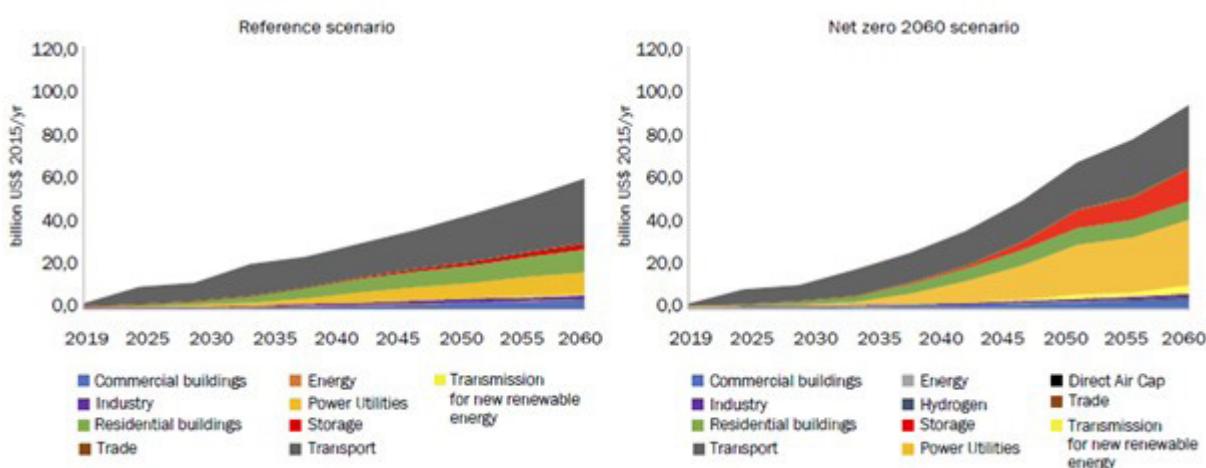
Efficient water management is another crucial aspect of sustainable development in Uzbekistan, given the country's arid climate and reliance on irrigation for agriculture. Investing in modern irrigation technologies, promoting water-saving techniques among farmers, and enhancing water infrastructure can help optimize water use efficiency and safeguard against water scarcity. Furthermore, prioritizing eco-friendly infrastructure projects is essential for advancing sustainable development goals. This includes initiatives such as expanding public transportation networks, investing in renewable energy infrastructure, and integrating green building practices into urban development projects. By embracing sustainable infrastructure, Uzbekistan can reduce its carbon footprint, enhance energy security, and create healthier living environments for its citizens.

In summary, by promoting sustainable agriculture, efficient water management practices, and eco-friendly infrastructure projects, Uzbekistan can lay the foundation for long-term resilience and prosperity. Embracing sustainable development principles not only safeguards the environment but also fosters inclusive economic growth and social well-being for current and future generations.

**FIGURE 1.1. POPULATION DENSITY AND CLIMATE RISKS IN UZBEKISTAN, 2030**



Climate adaptation measures in Uzbekistan yield substantial economic and developmental advantages, rendering them valuable investments regardless of climate-related risks. The benefits derived from such adaptation investments outweigh the costs by two to three times.



As global attention shifts towards sustainable energy solutions, the economics of renewable energy sources, including solar, wind, and hydropower, are becoming increasingly favorable. For Uzbekistan, embracing renewable energy presents a multifaceted opportunity that extends beyond environmental benefits.

Investing in renewable energy infrastructure holds the potential to catalyze a transformative shift in Uzbekistan's energy landscape. By harnessing abundant solar radiation, wind resources, and hydroelectric potential, Uzbekistan can diversify its energy mix, reduce dependency on fossil fuels, and mitigate carbon emissions.



Moreover, transitioning towards renewable energy aligns with international commitments to combat climate change and reduce greenhouse gas emissions. Beyond environmental considerations, the economic implications of renewable energy investment are profound. Building and maintaining renewable energy infrastructure create a multitude of job opportunities across various sectors, from manufacturing and construction to research and development. This not only contributes to economic growth but also fosters a skilled workforce and promotes innovation within the energy sector. Furthermore, investing in renewable energy can enhance Uzbekistan's energy security by reducing reliance on imported fuels and stabilizing energy prices in the long run. By tapping into its renewable energy potential, Uzbekistan can bolster its energy independence and resilience against external shocks. Additionally, the attractiveness of renewable energy investment can stimulate foreign direct investment (FDI) in Uzbekistan's energy sector. With growing global interest in sustainable development and green finance, Uzbekistan stands to attract substantial investments from international players seeking opportunities in renewable energy projects. In conclusion, by capitalizing on the favorable economics of renewable energy sources, Uzbekistan can not only reduce carbon emissions but also stimulate job creation, enhance energy security, and attract investment in its energy sector. Embracing renewable energy represents a pivotal step towards a sustainable and prosperous future for Uzbekistan.

Further actions, such as providing incentives or compensation to transmission system operators and distribution system operators to encourage their support for distributed renewable energy sources, can contribute to creating a fairer environment within the sector as it transitions towards a fully operational energy market aligned with net zero goals. Alongside reforms in tariffs and subsidies, the government could implement temporary tax relief measures to encourage industries to adopt energy-efficient technologies. Preparing Uzbekistan's industries for net zero also entails revising building regulations and offering specific incentives to promote the adoption of carbon capture and storage (CCS) and green hydrogen technologies, especially during the period spanning from 2050 to 2060.

Expediting the expansion of renewable energy is crucial for the power sector, but broader attention to technologies and fuels is necessary across the entire energy system to facilitate decarbonization. With dwindling domestic gas production, there may be a shift towards increased electrification, coupled with a prohibition on new coal power projects, which can lead to reduced emissions in the short term. In the medium and long term, enhancing domestic gas storage capacity would improve the efficiency of gas resource utilization. Establishing a specific target for battery energy storage systems by 2030 or 2035 could be beneficial, particularly if coupled with a mandate for all gas-powered facilities to implement carbon capture and storage (CCS) technology. Additionally, exploring the potential of geothermal resources for district heating and cooling, particularly in regions like the Fergana Valley (such as the Namangan region with a potential of 42,600 tons of coal equivalent [tce]) and the Bukhara region (with 81,200 tce), presents promising opportunities.

The pumping of water for irrigation accounts for 15–20 percent of the electricity consumption in Uzbekistan, which translates to over 3 million tons of CO<sub>2</sub> emissions annually, constituting approximately 2–3 percent of the country's total emissions. Inefficient water usage directly contributes to the substantial carbon footprint of irrigation services, as more energy is required to transport water through the system to compensate for significant water losses. The inefficiencies in conveyance are primarily due to aging irrigation infrastructure, with some systems reporting water loss rates as high as 60 percent.

The Ministry of Water Resources aims to decrease energy consumption at 1,687 state-owned pumped-irrigation systems from 8.2 billion kilowatt hours (kWh) to 6 billion kWh by 2030. Achieving this goal will necessitate significant investments in upgrading equipment and modernizing irrigation systems to enhance water and energy efficiency. This will involve implementing a real-time automated monitoring and control system for electricity usage at pumping stations and exploring alternative energy sources. Apart from the 5,000 pumps operated by the 1,687 state-owned pumping stations, there are 9.4 million pumping units on farms or managed by special service organizations (formerly water user associations). These entities could benefit from transitioning to solar-powered pumping and adopting gravity-fed irrigation where feasible.

#### 4. CONCLUSION

In conclusion, the principles of environmental economics are pivotal in charting Uzbekistan's course toward sustainable development. Through the strategic integration of carbon pricing mechanisms, the proactive pursuit of sustainable development initiatives, and the astute leveraging of renewable energy economics, Uzbekistan stands poised to usher in a new era of environmental stewardship and economic prosperity. It is incumbent upon policymakers, businesses, and civil society stakeholders to forge collaborative partnerships and place environmental sustainability at the forefront of their agendas. By doing so, Uzbekistan can lay the groundwork for a future characterized by cleaner air, healthier ecosystems, and enhanced resilience in the face of global challenges. Moreover, embracing these principles offers not only environmental benefits but also economic



opportunities, including job creation, technological innovation, and enhanced energy security. As Uzbekistan navigates its sustainable development journey, it is essential to recognize that the decisions made today will reverberate for generations to come. Therefore, a collective commitment to sustainable practices is essential for safeguarding the well-being of both current and future generations of Uzbekistan. By embracing environmental economics as a guiding principle, Uzbekistan can chart a path towards a brighter, more sustainable future for its people, its economy, and the planet as a whole.

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# Yashi

## IQTISODIYOT va TARAQQIYOT

Ijtimoiy, iqtisodiy, siyosiy, ilmiy, ommabop jurnal

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