

Yashil

IQTISODIYOT va 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
08.00.04 Qishloq xo'jaligi iqtisodiyoti
08.00.05 Xizmat ko'rsatish tarmoqlari iqtisodiyoti
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08.00.17 Turizm va mehmonxona faoliyati



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OVERVIEW OF ENVIRONMENTAL MANAGEMENT IN UZBEKISTAN: A COMPARATIVE ANALYSIS OF PROTECTED AREAS AND WASTE MANAGEMENT



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Abstract: This article provides an overview of the share of environmental management practices in Central Asia, focusing on protected areas' establishment, waste management strategies in Uzbek regions, and the percentage of protected areas in Uzbekistan from 1950 to 2022 compared to other Central Asian countries. The findings offer valuable insights into environmental conservation and waste management policies, identifying areas of success and improvement opportunities.

Key words: environment, sustainability, green economy, environmental management.

Annotatsiya: Ushbu maqolada muhofaza etiladigan hududlarning ulushi, O'zbekiston hududlarida chiqindilarni boshqarish strategiyalari va 1950 yildan 2022-yilgacha bo'lgan davrda O'zbekistonda muhofaza etiladigan hududlar foizini boshqa Markaziy Osiyo mamlakatlari bilan taqqoslashga qaratilgan Markaziy Osiyoda atrof-muhitni boshqarish amaliyotlari haqida umumiy ma'lumot berilgan. Topilmalar atrof-muhitni muhofaza qilish va chiqindilarni boshqarish siyosati bo'yicha qimmatli g'oyalarni taqdim etadi, muvaffaqiyatli amaliyotlar va takomillashtirish imkoniyatlarini ochib beradi.

Kalit so'zlar: atrof-muhit, barqarorlik, yashil iqtisodiyot, atrof-muhitni boshqarish.

Аннотация: В данной статье представлен обзор практик управления окружающей средой в Центральной Азии с акцентом на процент охраняемых территорий, управление отходами в регионах Узбекистана и сравнении процента охраняемых территорий в Узбекистане за период с 1950 по 2022 год с другими странами Центральной Азии. Полученные результаты предоставляют ценные идеи в области сохранения окружающей среды и политики управления отходами, выявляя области успешных практик и возможности для улучшения.

Ключевые слова: окружающая среда, устойчивость, зеленая экономика, управление окружающей средой.

1. INTRODUCTION

Effective environmental management is crucial for preserving natural resources and ensuring sustainable development (Hoang T, N., et al, 2020). In Uzbekistan, significant efforts have been made to establish protected areas and implement waste management strategies (United Nations, 2020). This article aims to provide a detailed overview of environmental management in Uzbekistan, focusing on the establishment and management of protected areas and waste management practices across regions. By examining the percentage of protected areas in Uzbekistan in comparison to other Central Asian countries and evaluating waste management strategies, the study sheds light on the country's environmental conservation and sustainability initiatives.

2. LITERATURE REVIEW

The environmental management landscape in Uzbekistan has been shaped by historical and political contexts. During the Soviet era, environmental conservation was largely motivated by political factors, resulting in the establishment of protected areas without comprehensive management plans (Ilyosjon B., S., & Lutfillo, M., 2021). After gaining independence in 1991, Uzbekistan faced challenges in adapting its environmental policies to suit its new economic and political realities (Bloch, P. C., 2002).

Researchers like Tazim Jamal & Amanda Stronza (2009) have emphasized the importance of government agencies, NGOs, and international collaborations in establishing and managing protected areas. Additionally, studies by Jeffrey, D., et al., (2003) have highlighted the effectiveness of conservation efforts in preserving biodiversity, ecosystems, and cultural heritage within these protected areas.

Uzbekistan encounters several challenges in managing its protected areas, including insufficient funding, inadequate law enforcement, and limited public awareness. Ahn, Y.-J., & Juraev, Z. (2023) have investigated the social and economic barriers to effective protected area management and identified potential opportunities, such as community engagement, eco-tourism, and participatory approaches, to address these challenges.

Researchers like Bowen, K., et al., (2017) have emphasized the importance of integrated approaches, stakeholder engagement, and technological advancements to tackle emerging environmental challenges. The role of international cooperation and the adoption of best practices from other countries is crucial in shaping Uzbekistan's environmental management strategies.

3. METHODS

The study adopts a comparative analysis approach to examine the percentage of strict nature reserves and national parks in Uzbekistan from 1950 to 2022. Data on protected areas will be collected from reliable sources, such as governmental reports from the Statistics Agency Under the President of the Republic of Uzbekistan and OECD databases. The percentage of protected areas in Uzbekistan will be compared to other Central Asian countries to provide a regional perspective on environmental conservation efforts.

To assess waste management practices, data will be gathered from the Open Data Portal of the Republic of Uzbekistan (<https://olddata.gov.uz/uz/datasets/17081>). Information regarding waste management regulations will be evaluated, and quantitative data will be analyzed to identify trends and patterns in waste management practices across different regions of Uzbekistan.

4. RESULTS

Figure 1 provides information on Nature reserves in each Central Asian country, with Georgia included for comparison. Georgia garners considerable attention in Uzbekistan's media space, frequently discussed as a tourist destination (Gazeta.uz., 2022), and holds historical ties to the Soviet Union. The figure illustrates Kyrgyzstan's leadership in protecting its nature, while Uzbekistan lags behind with only 0.39% of total land dedicated to reserves. Interestingly, all countries experienced an increase in reserved lands during the 1970s, with Turkmenistan showing the most significant growth.

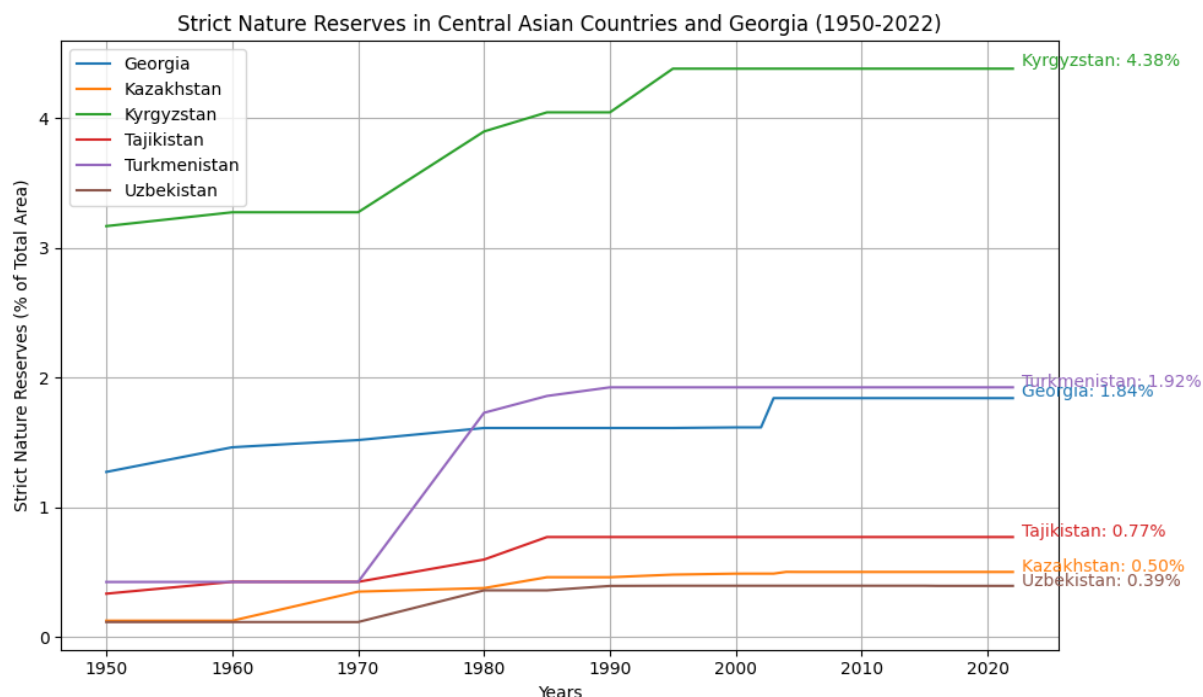


Figure 1: Percent of nature reserves in Central Asia and Georgia from 1950–2022. Source: author, based oecd-ilibrary.org ^[10]



Figure 2 demonstrates the percentage of national parks for the same locations as Figure 1. Notably, Tajikistan's share of national parks surged from zero to 15% starting from the mid-90s. Other countries' data are relatively close, except for Turkmenistan, which remains unavailable due to its closed political views. Georgia's percentage of natural parks trails Tajikistan's by approximately 10%, which is reasonable.

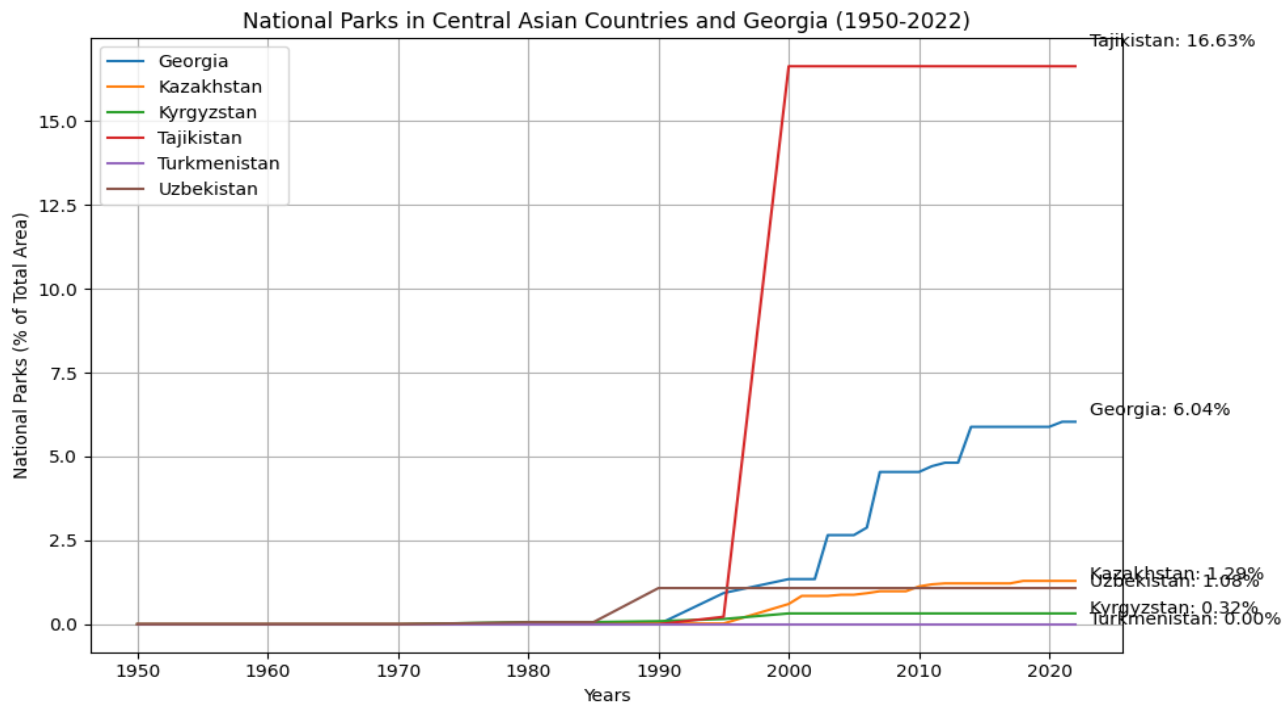


Figure 2: Percent of national parks in Central Asia and Georgia from 1950–2022. Source: author, based oecd-ilibrary.org^[10]

Figure 3 depicts waste management in Uzbekistan, revealing a contrast with the previous graphs. The ratio of population's sanitary cleaning significantly outweighs the recycling degree of collected waste. While 90% of Uzbekistan's population benefits from sanitary cleaning services, only 21.9% of waste is processed. Republic Karakalpakstan records one of the lowest shares for each variable, while Tashkent city boasts the highest rates in both indicators.

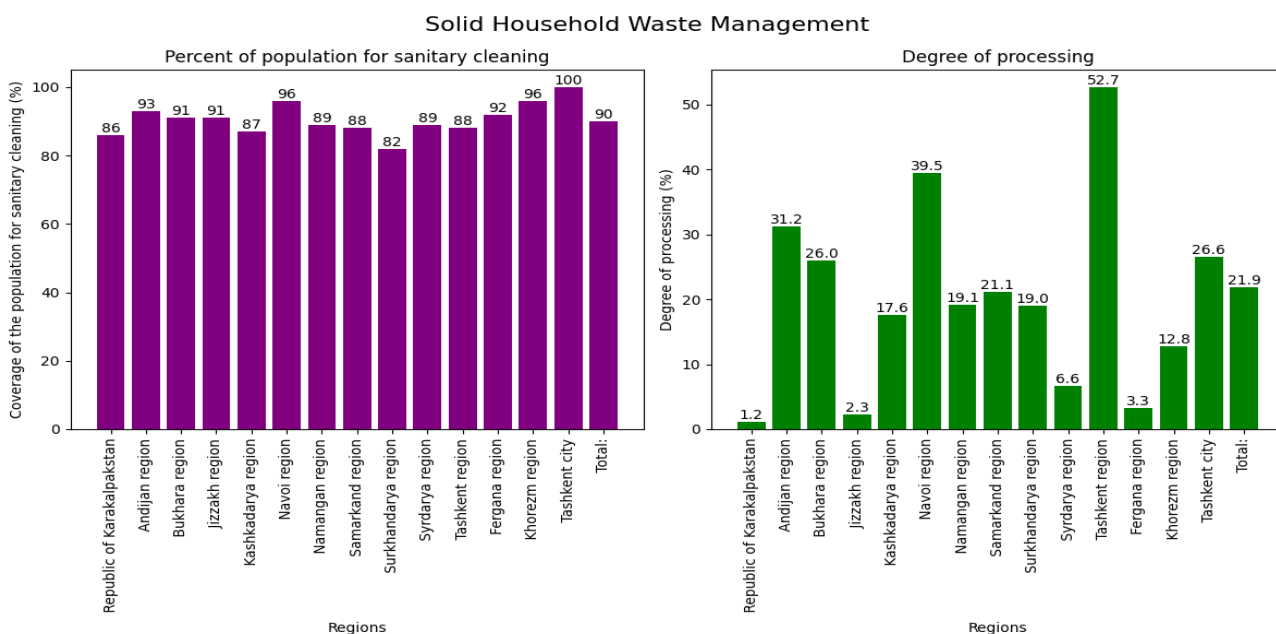


Figure 3: Percent of household waste management in Uzbek Regions (6 months of 2021). Source: author, based on data from Open Data Portal of the Republic of Uzbekistan^[15]



5. DISCUSSION

The results of the comparative analysis reveal the percentage of strict nature reserves and national parks in Uzbekistan, Tajikistan, Turkmenistan, Kyrgyzstan, Kazakhstan, and Georgia over the studied period. This analysis provides valuable insights into the country's commitment to preserving its natural heritage and contributes to the regional understanding of protected areas in Central Asia.

Nature reserves and national parks play a crucial role in promoting sustainable development. These protected areas are vital for conserving biodiversity, safeguarding delicate ecosystems, and preserving natural resources for future generations (Getzner, M., 2010). Designating specific regions as nature reserves or national parks ensures they remain undisturbed, allowing flora and fauna to thrive in their natural habitats (Wood, M., 2002). Controlled access to these sites helps manage human activities, reducing environmental impact while offering opportunities for ecotourism and environmental education. Responsible management and conservation efforts in nature reserves and national parks contribute significantly to sustainable development, balancing environmental protection, economic growth, and social well-being (Getzner, M., 2010).

The assessment of waste management practices across Uzbek regions highlights the current state of waste collection, recycling, and disposal. The findings identify successful waste management strategies and areas requiring improvement, providing valuable insights for future policy decisions and interventions. Waste recycling emerges as a critical aspect, offering the potential to address environmental concerns and foster economic growth (Salmenperä, H., 2021). Efficient recycling systems can significantly contribute to waste reduction and resource conservation. By encouraging recycling initiatives and supporting recycling industries' development, Uzbekistan can create new economic opportunities and promote a more sustainable circular economy.

6. CONCLUSION

This article provides a comprehensive overview of environmental management in Uzbekistan, focusing on protected areas and waste management practices. The analysis of protected areas offers insights into the country's efforts in conserving natural habitats and biodiversity. The assessment of waste management practices highlights the current state of waste disposal and recycling initiatives across different regions of Uzbekistan.

The findings contribute to the understanding of environmental conservation efforts and waste management strategies in Uzbekistan. Policymakers, environmental authorities, and stakeholders can utilize these results to design and implement effective environmental management practices, promoting sustainability and preserving Uzbekistan's natural resources for future generations. Furthermore, the data obtained from the assessment will guide targeted interventions and investment in regions where waste management practices require improvement, facilitating a comprehensive and environmentally responsible waste management approach nationwide. As Uzbekistan continues its pursuit of sustainable development, waste recycling remains a crucial pillar in achieving both environmental protection and economic advancement.

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Yashil

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Ijtimoiy, iqtisodiy, siyosiy, ilmiy, ommabop jurnal

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