

**TAX POLICY AS A CATALYST FOR GREEN SERVICES: EVALUATING THE
IMPACT OF ENVIRONMENTAL TAX INCENTIVES ON SERVICE SECTOR
GROWTH IN UZBEKISTAN**

Yulduz Juraqulovna Haqnazarova

Assistant, Department of “Investments and Innovations”

Samarkand Institute of Economics and Service

Khaknazarovayulduz12091993@gmail.com

Kazakbaeva Dinara Bayrambay kizi

Student of Samarkand Institute of

Economics and Service, Group MR-223

Abstract. This article investigates how environmental tax incentives introduced under Uzbekistan’s 2024 Tax Code reform influence the development of environmentally sustainable services—a key pillar of the national green economy strategy. Using empirical data from 2022 to 2025, the study analyzes the correlation between tax relief (e.g., reduced VAT, corporate income tax deductions, and property tax exemptions) and the growth of green service enterprises in sectors such as eco-tourism, green IT, energy auditing, and waste management consulting. The research employs a mixed-methods approach combining statistical regression, policy analysis, and case studies. Findings reveal that businesses benefiting from green tax incentives experienced, on average, 23% higher revenue growth and 18% greater investment in sustainability compared to non-beneficiary firms. The study introduces a novel analytical framework—the **Green Tax Responsiveness Index (GTRI)**—to measure how effectively tax policy translates into real economic and environmental outcomes. The results confirm that well-designed tax incentives are not merely fiscal concessions but strategic tools for accelerating green transformation in the services sector. The article concludes with policy recommendations for enhancing targeting, transparency, and accessibility of green tax benefits.

Keywords: green economy, tax incentives, environmental taxation, services sector, Uzbekistan, sustainable development, fiscal policy, green transition, tax reform.

Introduction

In the past decade, the global economy has shifted from viewing environmental protection as a cost to recognizing it as an opportunity. Nowhere is this shift more critical than in emerging economies like Uzbekistan, where rapid industrialization and urbanization must be balanced with ecological limits. In 2019, Uzbekistan launched its *Strategy for Transition to a Green Economy (2019–2030)*, followed by sweeping reforms in energy, waste management, and—most recently—**taxation**.

The 2024 Tax Code reform marked a turning point. For the first time, Uzbekistan embedded **environmental objectives directly into its tax system**. Rather than treating taxes only as a revenue tool, the government began using them to **reward sustainable behavior**, especially in the services sector—seen as a low-carbon, high-innovation engine for green growth.

But do these tax incentives actually work? Do they lead to real business growth, environmental improvements, and investment in green services? Or are they symbolic gestures with limited impact?

These questions matter deeply. If tax policy fails to stimulate green services effectively, Uzbekistan risks slowing its green transition, missing climate targets, and losing competitiveness in a world where sustainability is increasingly tied to economic value.

This article addresses this gap by asking: **How do environmental tax incentives under Uzbekistan's 2024 Tax Code affect the development of green services?** We argue that tax policy, when precisely designed and implemented, can be a powerful catalyst—not just for compliance, but for innovation and expansion in the green services sector.

Unlike previous studies that focus on industry or agriculture, this research centers on **services**, a sector often overlooked in environmental tax discussions despite its growing economic weight (now over 58% of Uzbekistan's GDP, World Bank, 2025).

Methods

To ensure scientific rigor and originality, this study combines **quantitative, qualitative, and policy-analytical** methods.

1. Data Collection

We gathered data from multiple official sources:

State Tax Committee of Uzbekistan: Records of businesses claiming green tax benefits (2023–2025).

Ministry of Ecology: List of certified green service providers (n = 312 as of Q1 2025).

National Statistics Committee: Sectoral revenue, employment, and investment data (2022–2025).

World Bank Enterprise Surveys: Firm-level financial and sustainability practices.

Our final dataset includes **198 service firms**—124 that used at least one green tax incentive and 74 that did not.

2. Variables and Metrics

Dependent variables: Annual revenue growth (%), investment in green tech (USD), number of new green services launched.

Independent variable: Use of green tax incentives (binary: yes/no), type of incentive (VAT reduction, income tax deduction, property tax exemption).

Control variables: Firm size, location, age, sector sub-type.

3. Analytical Tools

Regression analysis to isolate the impact of tax incentives on business performance.

Green Tax Responsiveness Index (GTRI) – a new composite indicator developed for this study, measuring:

Accessibility (ease of claiming the benefit)

Impact (financial relief received)

Behavioral change (whether the firm expanded green activities post-incentive)

Environmental outcome (verified reduction in energy/water/waste)

GTRI scores range from 0 (no effect) to 100 (high transformation).

4. Case Studies

We conducted in-depth interviews with 6 green service firms that actively used tax incentives, including:

An eco-tourism agency in Samarkand

A Tashkent-based IT startup offering carbon accounting software

A waste consulting firm in Andijan

These provide real-world context to statistical findings.

Results

1. Rapid Adoption of Green Tax Incentives

Since January 2024, **278 service businesses** have claimed at least one environmental tax benefit.

The most popular incentives were:

7% VAT rate for eco-auditing and green education (used by 62% of firms)

Corporate income tax deduction for green equipment (51%)

3-year property tax exemption for green infrastructure (38%)

This represents a **400% increase** compared to pre-2024 levels (State Tax Committee, 2025).

2. Strong Correlation with Business Growth

Regression analysis shows that firms using green tax incentives grew **23% faster in revenue** than similar non-users ($p < 0.01$).

Eco-tourism firms: +28% revenue growth

Green IT: +25%

Environmental consulting: +19%

Moreover, **81%** of beneficiary firms reported **reinvesting tax savings** into new green services or staff training.

3. The Green Tax Responsiveness Index (GTRI)

Our novel index revealed significant variation in policy effectiveness:

High-performing incentives: Income tax deductions (GTRI = 78) — led to real investment in solar panels, EVs, etc.

Medium-performing: VAT reduction (GTRI = 62) — helped pricing but less behavioral change.

Low-performing: Property tax exemption (GTRI = 45) — often claimed by firms that were already green, offering little marginal impact.

4. Case Evidence

“EcoGuide Samarkand” (tourism): Used a 7% VAT rate and income tax deduction to install solar water heaters and launch zero-waste tours. Revenue increased by 34% in one year.

“GreenLedger” (IT): Reduced software development costs by 15% through tax deductions, enabling free trials for SMEs—expanding its user base by 200%.

5. Broader Economic Impact

Regions with higher uptake of green tax incentives (e.g., Samarkand, Tashkent, Bukhara) saw:

12% more green service startups (2024 vs. 2022)

9% higher employment in sustainability-related roles

Increased foreign interest: 3 green service firms received EBRD grants in 2024–2025, citing tax incentives as proof of government support.

Discussion

Scientific Novelty

This study makes three original contributions:

1. **First empirical analysis** of environmental tax incentives specifically in Uzbekistan’s services sector.

2. **Introduction of the GTRI**, a practical tool for policymakers to evaluate not just *usage* but *impact* of tax benefits.

3. **Evidence that tax policy can drive behavioral change**—not just reduce costs—when linked to verifiable green outcomes.

Policy Effectiveness vs. Design Flaws

The 2024 Tax Code is a major step forward, but challenges remain:

Low awareness: Only 35% of small service firms know about available incentives (State Statistics, 2024).

Complex documentation: Firms need eco-certification from the Ministry of Ecology—a process taking 20–45 days.

Limited scope: Incentives exclude informal or micro-enterprises (e.g., homestays, freelance eco-guides), which form a large part of the green services ecosystem.

Comparison with Global Practices

Uzbekistan’s approach mirrors early EU models but lacks supporting mechanisms:

Germany combines tax breaks with **technical assistance** and **green procurement**.

Singapore offers **fast-track certification** (<7 days) for green SMEs.

Kazakhstan provides **cash grants alongside tax relief**.

Uzbekistan’s model is fiscally prudent but could be more inclusive.

Why This Matters for the Green Economy

Services are the ideal testing ground for green tax policy because:

They have **low entry barriers** for green innovation.

They **influence consumer behavior** (e.g., promoting eco-tourism).

They create **high-value, low-emission jobs**.

By supporting green services via smart taxation, Uzbekistan builds a **sustainable economic foundation**—not just environmental compliance.

Limitations

This study covers only the first 18 months of the reform. Long-term effects on carbon reduction or market competitiveness require further monitoring. Also, data on informal sector participation remains limited.

Conclusion

Uzbekistan’s 2024 Tax Code has successfully turned taxation into a **strategic instrument for green development** in the services sector. Empirical evidence confirms that environmental tax incentives lead to measurable business growth, increased investment in sustainability, and regional economic revitalization.

However, the policy’s full potential will only be realized if it becomes **simpler, more inclusive, and better communicated**. We recommend:

1. **Launch a national awareness campaign** via digital platforms and business associations.
2. **Create a “Green Tax Helpdesk”** in every regional tax office.
3. **Expand eligibility** to micro-enterprises and informal green service providers.
4. **Link tax benefits to outcomes** (e.g., verified energy savings), not just equipment purchases.

Most importantly, Uzbekistan must recognize that **green tax policy is not a cost—it’s an investment**. Every tax deduction for a solar-powered hotel or eco-consulting firm is a step toward a resilient, innovative, and globally competitive services economy.

In the green economy, the tax system doesn’t just collect revenue—it **builds the future**.

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