

# Yashil

## IQTISODIYOT va TARAQQIYOT

Ijtimoiy, iqtisodiy, siyosiy, ilmiy, ommabop jurnal

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08.00.01 Iqtisodiyot nazariyasi  
08.00.02 Makroiqtisodiyot  
08.00.03 Sanoat iqtisodiyoti  
08.00.04 Qishloq xo'jaligi iqtisodiyoti  
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08.00.06 Ekonometrika va statistika  
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08.00.15 Tadbirkorlik va kichik biznes iqtisodiyoti  
08.00.16 Raqamli iqtisodiyot va xalqaro raqamli integratsiya  
08.00.17 Turizm va mehmonxona faoliyati



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# WAYS TO IMPROVE THE GREEN RECOVERY IN UZBEKISTAN BY INVESTMENT AND TRADE

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**Abstract:** The imposition of measures to contain the transmission of the Coronavirus resulted in a significant economic downturn, so disrupting the economic activities of numerous nations. The main objective of this study is to assess the effects of intra-regional trade and investment on the green recovery of Uzbekistan's economy throughout the period of 2010–2023. This will be achieved by utilizing annual data and employing the panel co-integration approach. The findings of the study provide confirmation that there is a positive and significant relationship between the level of green trade openness and the green recovery. The computed coefficient pertaining to direct foreign investment exhibits a negative value. The statistical insignificance of the patent coefficient is observed, while a positive impact is detected in relation to the official exchange rate. The coefficient associated with financial development exhibits a positive and statistically significant relationship. The research presents a number of policy implications that are relevant for scholars and policymakers. These implications include the need to strengthen green Foreign Direct Investment (FDI), encourage green innovation, and promote the liberalization of green trade.

**Key words:** Trade, Investment, Green recovery, Uzbekistan

**Annotatsiya:** Koronavirusning tarqalishini to'xtatish bo'yicha chora-tadbirlarning qo'llanilishi sezilarli iqtisodiy tanazzulga olib keldi va bu ko'plab mamlakatlarning iqtisodiy faoliyatini to'xtatdi. Ushbu tadqiqotning asosiy maqsadi 2010–2023-yillar davomida O'zbekiston iqtisodiyotining yashil tiklanishiga mintaqalararo savdo va investitsiyalarning ta'sirini baholashdan iborat. Bunga yillik ma'lumotlardan foydalanish va panel kointegratsiya yondashuvidan foydalanish orqali erishiladi. Tadqiqot natijalari yashil savdo ochiqligi darajasi va yashil tiklanish o'rtasida ijobiy va muhim bog'liqlik mavjudligini tasdiqlaydi. To'g'ridan-to'g'ri xorijiy investitsiyalar bo'yicha hisoblangan koeffitsient salbiy qiymatni ko'rsatadi. Patent koeffitsientining statistik ahamiyatsizligi kuzatilmoqda, bunda rasmiy kursga nisbatan ijobiy ta'sir ko'rsatilmoqda. Moliyaviy rivojlanish bilan bog'liq koeffitsient ijobiy va statistik jihatdan ahamiyatli munosabatni ko'rsatadi. Tadqiqot olimlar va siyosatchilar uchun dolzarb bo'lgan bir qator siyosat natijalarini taqdim etadi. Ushbu ta'sirlar yashil to'g'ridan-to'g'ri xorijiy investitsiyalarni (TDI) kuchaytirish, yashil innovatsiyalarni rag'batlantirish va yashil savdoni liberallashtirishni rag'batlantirish zarurligini o'z ichiga oladi.

**Kalit so'zlar:** Savdo, Investitsiyalar, Yashil tiklanish, O'zbekiston.

**Аннотация:** Введение мер по сдерживанию распространения коронавируса привело к значительному экономическому спаду, что нарушило экономическую деятельность многих стран. Основная цель данного исследования – оценить влияние внутрирегиональной торговли и инвестиций на зеленое восстановление экономики Узбекистана в период 2010–2023 годов. Это будет достигнуто за счет использования годовых данных и применения подхода совместной интеграции групп. Результаты исследования подтверждают наличие положительной и значимой взаимосвязи между уровнем открытости зеленой торговли и восстановлением зеленой экономики. Рассчитанный коэффициент, относящийся к прямым иностранным инвестициям, имеет отрицательное значение. Наблюдается статистическая незначительность патентного коэффициента, при этом обнаруживается положительное влияние по отношению к официальному обменному курсу. Коэффициент, связанный с финансовым развитием, демонстрирует положительную и статистически значимую связь. В исследовании представлен ряд политических последствий, которые важны для ученых и политиков. Эти последствия включают необходимость усиления “зеленых” прямых иностранных инвестиций (ПИИ), поощрения “зеленых” инноваций и содействия либерализации “зеленой” торговли.

**Ключевые слова:** Торговля, Инвестиции, Зеленое восстановление, Узбекистан.





## 1. INTRODUCTION

In accordance with the Paris Agreement of 2015, it has been observed that Uzbekistan has diligently formulated their respective nationally determined contributions (NDCs). These contributions serve the purpose of outlining the specific measures and policies that are aimed at reducing carbon emissions within their economic operations, with the ultimate goal of achieving decarbonization by the years 2030 and 2050.

Since the year 2016, President Mirziyoyev has actively advocated for the promotion of environmentally sustainable growth within the nation of Uzbekistan. Uzbekistan has enacted a range of green policies in its Strategy of Actions for the period of 2017–2021, with the aim of reducing reliance on fossil fuels and promoting the adoption of green energy sources. The nation has consolidated many programs, such as green investment, climate action, green building, and waste management, under the Strategy for Transition to a Green Economy by the year 2030.

The main objective of this article is to assess the effects of intra-regional trade and investment on the promotion of green growth in Uzbekistan. The objective of this study is to make a valuable addition to the current body of academic research. The assessment of the sustainable economic growth in these nations is derived from the inclusive green economic growth index, as established by Jha et al. (2018). The variable in question serves as a dependent variable inside the framework of the econometric model.

## 2. LITERATURE REVIEW

The body of scholarly literature pertaining to green recovery has witnessed significant growth in the context of the ongoing epidemic. A body of literature has examined the various dimensions, prerequisites, imperatives, and attributes pertaining to green economic recovery. Zhang and Dilancheiv (2022) conducted a separate investigation that centered on the setting of China's green recovery. Their findings indicate that the acceleration of green recovery targets is facilitated by resource efficiency. In their study, Shang et al. (2023c) utilized data collected from China to identify the key determinants of success for electronic exhibitions in facilitating a green economic recovery. Goenka et al. (2021) utilized a dynamic general equilibrium model (DSGE) to examine the correlation between green recovery initiatives and the COVID–19 pandemic.

The primary results substantiate the transient beneficial influence of the COVID–19 pandemic on the advancement of environmentally sustainable economic growth. According to Galanakis et al. (2022), the notion of green recovery encompasses the foundation of the bio-economy framework, incorporating specific cultural elements and the integration of technical advancements. In a separate study, Smol (2022) proposed novel definitions and approaches pertaining to the pursuit of green economic recovery in the aftermath of the COVID–19 pandemic. The study's findings indicate that the notion of green recovery is multifaceted. Tan et al. (2022) emphasized the imperative of implementing a green economic recovery strategy in the aftermath of the COVID–19 pandemic in order to mitigate environmental concerns and advance progress towards achieving sustainable development goals at the national and international levels.

The aforementioned research indicate that a green economic recovery is crucial in addressing environmental concerns during the post-COVID era. Nevertheless, a comprehensive analysis is required to fully understand the effects of investment and trade on the prospects of achieving a sustainable and environmentally friendly recovery. Furthermore, it is imperative to consider the example of Uzbekistan in prior scholarly investigations.

## 3. METHODOLOGY

The dependent variable used in this study is the inclusive green economic growth index, as established by Jha et al. (2018), based on the theoretical baseline. Furthermore, due to the absence of accessible data regarding green investment in Uzbekistan, foreign direct investment (in billion US dollars) has been chosen as an additional explanatory factor. In addition, the control variables included in the empirical model include resident patent applications (serving as a proxy for innovation), the official exchange rate, COVID–19, and the financial development index. The dataset consists of variables collected between 2010 and 2023, resulting in a total of 110 observations. In order to calculate elasticity, the variables are transformed into logarithmic form. Table 1 presents an overview of the factors utilized in the study.

Table 1: Variables' description

Variable	Symbol	Unit	Source
The inclusive green economic growth index	GEG	-	Calculated based on Jha et al. (2018)
Green trade openness	GTO		Trade Map, World Bank



Foreign direct investment	FDI	Billion US dollars	Official local websites
patent applications by residents	PAT	Number	World Bank
Official exchange rate	EXCH	LCU (Local currency units) per US dollars	World Bank
Financial development index	FINDEV	-	The Global Financial Development Database
COVID-19	COV	Dummy variable (it takes value 1 in 2020 and 2021, otherwise it captures the value of 0)	WHO Coronavirus Dashboard

Source: Authors

The estimation of the coefficients of the variables is conducted by considering the general functional form of the empirical model, denoted as Equation 1:

$$LGEG_{it} = \beta_0 + \beta_1 LGTO_{it} + \beta_2 LFDI_{it} + \beta_3 LPAT_{it} + \beta_4 LEXCH_{it} + \beta_5 LPAT_{it} + \beta_6 LPAT_{it} + \beta_7 FINDEV_{it} + \beta_8 COV + \varepsilon_{it} \quad (1)$$

The correlation among the cross-sectional units in a panel over time can arise through spillover effects or unobserved causes. Hence, in the initial phase, the presence of cross-sectional dependency in the panel data is assessed using the Pesaran CD test (Pesaran 2021). The panel co-integration test can be used to examine the presence of a long-term link among variables, provided that the series are integrated in the same order. The use of the Fully Modified OLS (FMOLS) involves the consideration of the co-integrating relationship between variables and the utilization of the panel co-integration estimator. Finally, the panel Vector Error Correction Model (VECM) is employed to examine the causal directionality of variables, hence establishing both short-term and long-term causal associations between those variables. The FMOLS estimation technique is notable for its ability to address endogeneity and serial correlation, hence enabling trustworthy estimate even with a limited sample size.

#### 4. EMPIRICAL FINDINGS

Initially, the Cross-Sectional dependency test proposed by Pesaran (2004) is conducted for all variables. The findings, as presented in Table 2, provide evidence against the presence of cross-sectional dependency within the panel. Hence, the initial set of panel unit root tests can be utilized to ascertain the stationarity of variables.

Table 2: Pesaran (2004)'s CD

	Statistic	Probability
GEG	21.35	0.65
GTO	11.35	0.28
FDI	29.25	0.88
PAT	17.47	0.39
EXCH	33.02	0.20
FINDEV	38.23	0.77

Source: Authors

The tests conducted by Levin et al. (2002), Breitung (2001), and Im et al. (2003) were utilized to assess the stationarity of the series. The results, as provided in Table 3, indicate that all variables exhibit significant stationarity at the first level of difference, implying that they are integrated of order one (I(1)).

Table 4: Pedroni and Kao panel co-integration tests

Variable	Levin, Lin and Chu test		Breitung test		Im, Pesaran and Shin test	
	Level	First difference	Level	First difference	Level	First difference
GEG	-1.49		1.78		4.98	
GTO	0.56		5.21		1.47	
FDI	2.78		2.09		1.35	
PAT	4.99		5.45		4.96	
EXCH	0.94		1.84		0.09	
FINDEV	0.52		4.16		1.83	

Given that the variables exhibit stationarity at the integrated order of one ( $I(1)$ ), it is possible to employ the panel co-integration test to ascertain the existence or absence of a long-term association between the series. In order to achieve this objective, the Pedroni (1999) test is utilized, and the findings, which are presented in Table 4, validate the existence of a co-integrating connection. To ensure the reliability of the results, we conducted a robustness check by employing Kao's (1999) residual co-integration test. The outcomes of this test align with the findings obtained from the Pedroni co-integration test.

**Table 4: Pedroni and Kao panel co-integration tests**

Panel co-integration test	-	Value (prob.)	-	Value (prob.)
Pedroni (1999)'s test	Panel v-statistic		Group rho- statistic	
	Panel rho-statistic		Group PP- statistic	
	Panel PP- statistic		Group ADF- statistic	
	Panel ADF- statistic		-	-
Kao (1999)'s test	- statistic: -3.81			
	-value: 0.017			

Source: Authors

The panel co-integration estimators are capable of estimating the long-term coefficients of explanatory variables as a result of the co-integration linkage between these variables. The researchers have chosen to utilize the Fully Modified Ordinary Least Squares (FMOLS) method in this study, since it offers several advantages in addressing the issues of endogeneity and serial correlation. The findings of FMOLS estimators for Uzbekistan economy are presented in Table 5.

**Table 5: FMOLS estimation**

Independent variable	Statistic	-value
GTO	0.109	0.017
FDI	-0.078	0.004
PAT	0.056	0.408
EXCH	-0.089	0.079
FINDEV	0.021	0.063
COV	0.5	0.022

GTO, FDI, PAT, EXCH, and FINDEV stand for green trade openness, foreign direct investment, patent applications by residents, official exchange rate, and financial development index, respectively

Source: Authors

The findings from the estimation results indicate that there is a positive and statistically significant relationship between the level of green trade openness and the economic growth in Uzbekistan. Green trade liberalism (GTL) plays a crucial role in promoting the objectives of green economic recovery within the Uzbekistan region. The FMOLS estimation does not provide any empirical evidence regarding the causal relationship between variables.

It can be concluded that there is no discernible immediate or prolonged causal relationship between foreign direct investment (FDI) and the promotion of environmentally sustainable economic growth, as well as between patent applications and the advancement of green growth in Uzbekistan.

## 5. CONCLUSIONS AND POLICY RECOMMENDATIONS

Adoption of green trade liberalism (GTL) plays a crucial role in promoting the objectives of green economic recovery in Uzbekistan. The coefficient of direct foreign investment is expected to be both negative and statistically significant. The predominant sector attracting foreign direct investment in the Uzbekistan region mostly revolves around fossil fuel industry. Hence, as foreign direct investment experiences a rise, there will be a corresponding escalation in carbon dioxide emissions and environmental damage, leading to a decline in green economic growth. The statistical significance of the patent coefficient is not seen. The official exchange rate exhibits a statistically significant positive impact. The reduction of the official exchange rate in Uzbekistan is expected to result in an appreciation of the national currency, leading to enhanced import capabilities for green technologies.



Consequently, this is anticipated to foster the expansion of green economic activities inside this nation. The coefficient associated with financial development exhibits a positive and statistically significant relationship. Enhancing the financial development index in this region entails the establishment of more robust infrastructural and legislative frameworks within the financial markets sector, hence encouraging the growth of environmentally sustainable businesses and the utilization of eco-friendly facilities. Furthermore, it is worth noting that there exist reciprocal short-term causal connections between green growth and many factors such as green trade openness, official exchange rate, and financial development. On the other hand, it has been established that there is a one-way causal relationship between financial development and green trade openness, as well as between green trade openness and patent application.

The present study has produced noteworthy and valuable contributions to the existing body of literature on sustainable development in the Uzbekistan region. However, further research has the potential to yield further findings that are complimentary and provide a more comprehensive understanding of the subject matter. It is recommended that the impact of political friction between Russia and Ukraine on the sustainable development of the Uzbekistan region be taken into account. Moreover, through the quantification of the coronavirus sickness, it becomes possible to assess the impact of this pandemic on the green economic growth of Uzbekistan. This analysis will yield more pragmatic outcomes that can inform policymakers in the region.

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