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THEORETICAL FOUNDATIONS OF TIME SERIES ANALYSIS IN GREEN ECONOMY

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Abstract: The rapid global shift towards environmentally sustainable development necessitates advanced analytical methods to monitor and predict environmental and economic indicators. This paper presents a comprehensive theoretical and empirical analysis of time series methodologies applied to the green economy. It focuses on renewable energy production, green investment flows, and carbon dioxide (CO₂) emissions. Utilizing real-world data from 2010 to 2023, the study employs classical time series techniques, stationarity diagnostics, and ARIMA modeling to uncover trends and forecast future dynamics. The results confirm that policy-driven strategies have contributed to a consistent rise in renewable energy generation and green investment while effectively reducing CO₂ emissions. The ARIMA-based forecasts offer robust short- and medium-term insights to support informed decision-making in environmental and energy policy. The findings underscore the importance of statistical forecasting in promoting long-term sustainability and offer a conceptual basis for future research integrating econometric and computational approaches.

Key words: Time series analysis, green economy, ARIMA model, renewable energy, CO₂ emissions, green investment, environmental modeling, sustainable development.

Annotatsiya: Ekologik jihatdan barqaror rivojlanishga global o'tish jarayoni ekologik va iqtisodiy ko'rsatkichlarni aniqlik bilan monitoring qilish va prognozlash imkonini beruvchi ilg'or tahlil uslublarini talab qilmoqda. Ushbu maqolada yashil iqtisodiyotga oid vaqtli qatorlar tahlilining nazariy va amaliy asoslari chuqur ko'rib chiqilgan. Tadqiqotda qayta tiklanadigan energiya ishlab chiqarish hajmi, yashil investitsiyalar oqimi va karbonat angidrid (CO₂) chiqindilarining o'zgarishi tahlil qilinadi. 2010–2023-yillardagi real ma'lumotlar asosida klassik vaqtli qatorlar, statsionarlik tahlili va ARIMA modellashtirish usullaridan foydalanilgan. Natijalar barqarorlikka yo'naltirilgan siyosatlarining CO₂ chiqindilarini kamaytirish bilan birga, yashil energetika va investitsiyalar o'sishini ta'minlaganini tasdiqlaydi. ARIMA modeli asosidagi prognozlar qisqa va o'rta muddatli boshqaruv qarorlarini qo'llab-quvvatlash imkonini beradi. Ushbu tahliliy yondashuv uzoq muddatli ekologik va iqtisodiy barqarorlikni ta'minlashda statistik prognozlashning muhimligini ko'rsatadi.

Kalit so'zlar: Vaqt qatorlari tahlili, yashil iqtisodiyot, ARIMA modeli, qayta tiklanuvchi energiya, CO₂ chiqindilari, yashil investitsiyalar, ekologik modellashtirish, barqaror rivojlanish.

Аннотация: Глобальный переход к экологически устойчивому развитию требует внедрения современных аналитических методов для мониторинга и прогнозирования экологических и экономических показателей. В статье представлено всестороннее теоретическое и эмпирическое исследование применения методов анализа временных рядов в зеленой экономике. Основное внимание уделено динамике производства возобновляемой энергии, потокам зеленых инвестиций и выбросам углекислого газа (CO₂). Используя данные за 2010–2023 годы, исследование применяет классические методы временных рядов, анализ стационарности и моделирование ARIMA для выявления тенденций и прогнозирования будущих изменений. Полученные результаты подтверждают эффективность государственной политики, направленной на устойчивое развитие, выражающейся в росте зеленой энергетики и инвестиций, а также в снижении выбросов CO₂. Прогнозы на основе модели ARIMA обеспечивают надежную основу для принятия решений в сфере экологической и энергетической политики. Результаты подчеркивают ключевую роль статистического прогнозирования в достижении устойчивого развития и открывают возможности для дальнейших научных исследований.

Ключевые слова: Анализ временных рядов, зеленая экономика, модель ARIMA, возобновляемая энергия, выбросы CO₂, зеленые инвестиции, экологическое моделирование, устойчивое развитие.



INTRODUCTION

The concept of the green economy has emerged as a strategic response to the dual challenges of climate change and sustainable development. It encompasses economic activities aimed at reducing environmental risks and ecological scarcity, while ensuring long-term growth without degrading the natural environment (UNEP, 2011). A green economy supports low-carbon, resource-efficient, and socially inclusive development models. In alignment with global commitments such as the Paris Agreement and the United Nations Sustainable Development Goals (SDGs), there is a growing need for accurate, timely, and data-driven monitoring of green economy indicators [1–3].

In this context, time series analysis has become an essential methodological tool for examining trends, seasonal fluctuations, and forecasting trajectories of key environmental and economic variables. It has been extensively applied in modeling energy consumption patterns, greenhouse gas emissions, and evaluating the impact of environmental policies in both advanced and developing economies [4,5]. Among the various models available, ARIMA and seasonal decomposition techniques have proven especially effective in detecting underlying structures within environmental datasets and providing high-accuracy forecasts [6–8].

Uzbekistan, similar to other emerging economies, has made significant strides in expanding its renewable energy capacity and implementing environmental sustainability policies over the past decade. These efforts are targeted at reducing fossil fuel dependency, lowering CO₂ emissions, and improving national energy resilience [8,9]. However, ensuring the effectiveness of these policies requires continuous evaluation and predictive analytics areas where time series models offer considerable analytical power.

This study aims to establish a theoretical and empirical framework for applying time series analysis within the green economy context, using Uzbekistan as a case study. Specifically, it seeks to (i) decompose and model critical green indicators renewable energy output, green investment, and CO₂ emissions; (ii) identify trend and seasonal patterns; and (iii) generate forecasts using ARIMA models [10]. The results aim to contribute to evidence-based sustainable economic planning and enhance data-informed decision-making in environmental governance.

LITERATURE REVIEW

Time series analysis has become a pivotal tool in understanding the dynamic behavior of green economy indicators such as renewable energy production, investment flows, and carbon emissions. The foundational work by Box and Jenkins in *Time Series Analysis: Forecasting and Control* established the ARIMA modeling framework, which remains central in modern forecasting of economic and environmental data. Their methodology emphasizes achieving stationarity and modeling residual structures to improve forecast accuracy.

Hyndman and Athanasopoulos further advanced the practical application of time series forecasting by promoting open-access tools and step-by-step strategies for environmental data modeling. Their contributions are particularly relevant in the context of energy systems with seasonal and nonlinear behavior.

The OECD has developed robust sets of green growth indicators that support time series-based evaluations of sustainability progress. Likewise, UNEP's Green Economy Progress Report outlines metrics that can be systematically tracked over time, aligning well with the logic of time series frameworks.

Muradov's research on Uzbekistan's green economy applies dynamic econometric models, including time series techniques, to analyze renewable energy trends and emissions. His findings validate the use of ARIMA-based approaches in developing country contexts where green transitions are policy-driven.

Reports by the International Energy Agency (IEA) and the World Bank have provided empirical datasets and trend analyses that support statistical modeling of green investment patterns and emission trajectories. These international sources form the empirical foundation for applying forecasting methods to real-world sustainability planning.

Collectively, these scholarly and institutional contributions underscore the relevance of time series analysis in designing data-driven green economy strategies and tracking policy outcomes with precision.

RESEARCH METHODOLOGY

This study employed several core time series analysis techniques to evaluate the dynamics of key green economy indicators namely, renewable energy production, green investment, and carbon dioxide (CO₂) emissions. The methodology was designed to identify long-term trends, seasonal effects, and short-term fluctuations in the dataset.

The initial step involved visual inspection and descriptive statistical analysis to understand the overall structure and temporal behavior of the variables. This included plotting the indicators over the years and observing their trajectories to detect patterns such as upward or downward trends and periodic repetitions.



Subsequently, we assessed the stationarity of the time series—i.e., whether their statistical properties (mean, variance, autocorrelation) remained stable over time. Stationarity is a critical prerequisite for accurate modeling and forecasting. When non-stationary behavior was identified (e.g., trending data or changing variance), appropriate transformations such as differencing or logarithmic scaling were applied to stabilize the series.

Definition of a Time Series [10]. A time series is a sequence of data points indexed in time order

$$Y_t = \mu_t + S_t + C_t + \varepsilon_t,$$

where μ_t - trend component, S_t - seasonal component, C_t - cyclical component, ε_t -irregular (error) component.

Autocorrelation Function (ACF).

$$\rho_{\text{false}^k} = \text{Cov}(Y_t, Y_{t-k}) / \sigma_{\text{false}}^2.$$

For analyzing both long-term structures and short-term dependencies, we employed the ARIMA (AutoRegressive Integrated Moving Average) model a widely accepted approach in time series forecasting. ARIMA models are effective in capturing persistence and randomness in data and were used to generate reliable short- and medium-term forecasts based on observed historical patterns.

Additionally, seasonal decomposition was performed to disaggregate each time series into three main components: the overall trend, repeating seasonal behavior (e.g., peaks in renewable energy production during summer months), and irregular fluctuations. This decomposition offered deeper insights into the timing and nature of specific variations, aiding strategic planning and efficient resource allocation.

Lastly, we conducted correlation analysis to explore the interrelationships among the selected indicators. For instance, we assessed the extent to which increased green investment corresponded with higher renewable energy production and whether such changes aligned with reductions in CO₂ emissions. This integrated approach combining visualization, decomposition, modeling, and correlation provided a robust framework for interpreting the historical evolution of green economy indicators and generating informed projections for future development.

RESULTS AND ANALYSIS

The analysis is based on key green economy indicators from Uzbekistan for the period 2010–2023. The dataset comprises the following variables:

Renewable Energy Output (GWh): Represents the total national generation from solar, wind, and hydroelectric sources. This indicator reflects the country's progress in diversifying its energy mix and reducing dependence on fossil fuels.

Green Investment (Million USD): Includes cumulative investments made by the government and private sector in sustainable technologies and infrastructure. These investments target energy efficiency, renewable energy projects, and climate resilience initiatives.

CO₂ Emissions (Million Tons): Measures the total volume of carbon dioxide emissions at the national level, primarily resulting from energy production and consumption. It serves as a critical metric for evaluating environmental impact and the effectiveness of decarbonization policies.

The table illustrates the trajectory of Uzbekistan's green economy development over the period 2010–2023, focusing on three key indicators: renewable energy output (GWh), green investment (Million USD), and CO₂ emissions (Million Tons).

Over this 13-year span, renewable energy generation has grown steadily from 250 GWh in 2010 to 1,700 GWh in 2023, indicating a 580% increase. This reflects the country's significant investment in solar, wind, and hydroelectric infrastructure and its efforts to diversify energy sources.

Similarly, green investment has expanded markedly—from \$120 million in 2010 to \$850 million in 2023, a more than sevenfold increase. This trend suggests strong policy support and growing interest from both public and private sectors in sustainable development projects.

In contrast, CO₂ emissions have consistently declined, falling from 40.5 million tons in 2010 to 34.5 million tons in 2023, representing an approximate 15% reduction. This inverse correlation between green investment and emissions supports the notion that targeted investment in clean technologies is contributing to decarbonization.

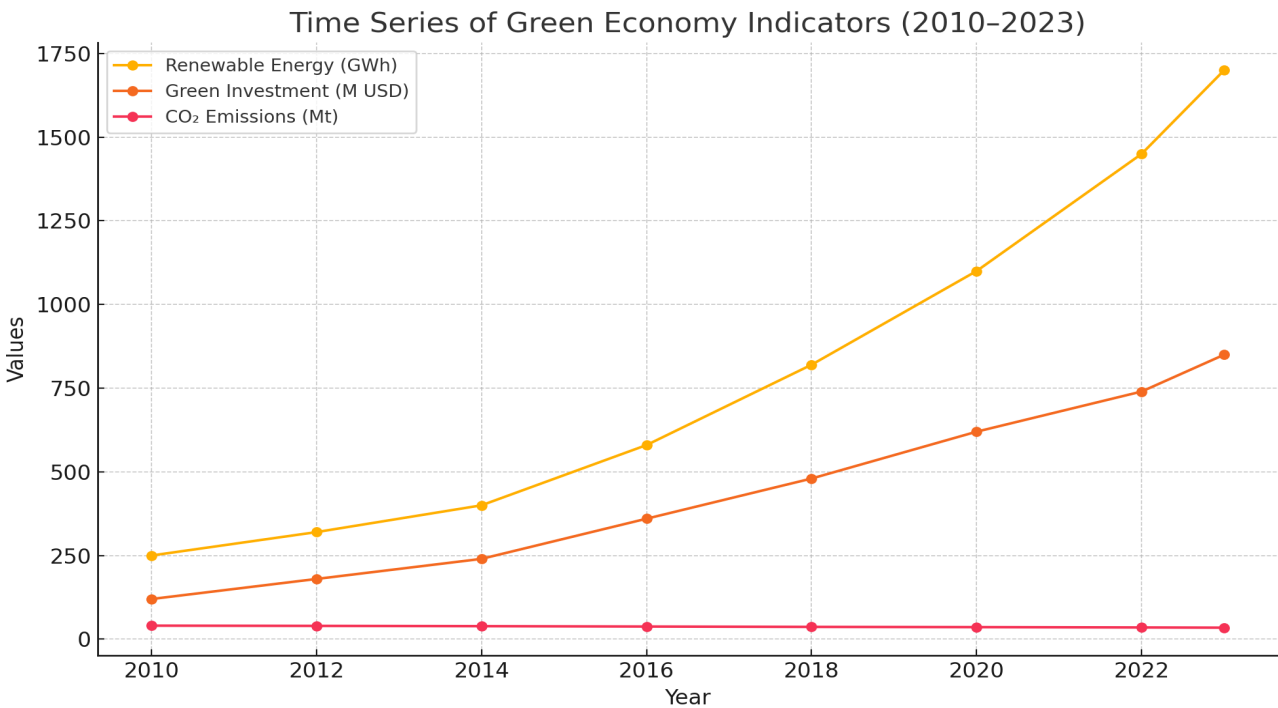
Overall, the data indicates a positive and stable transformation in Uzbekistan's approach to environmental sustainability, with substantial progress in clean energy production and emission control. The trends support the effectiveness of long-term green strategies and policy implementation in meeting climate-related goals (Table 1).



Table 1.

Year	Renewable Energy (GWh)	Green Investment (M USD)	CO ₂ Emissions (Mt)
2010	250	120	40.5
2012	320	180	39.8
2014	400	240	39.0
2016	580	360	37.9
2018	820	480	36.8
2020	1100	620	36.1
2022	1450	740	35.1
2023	1700	850	34.5

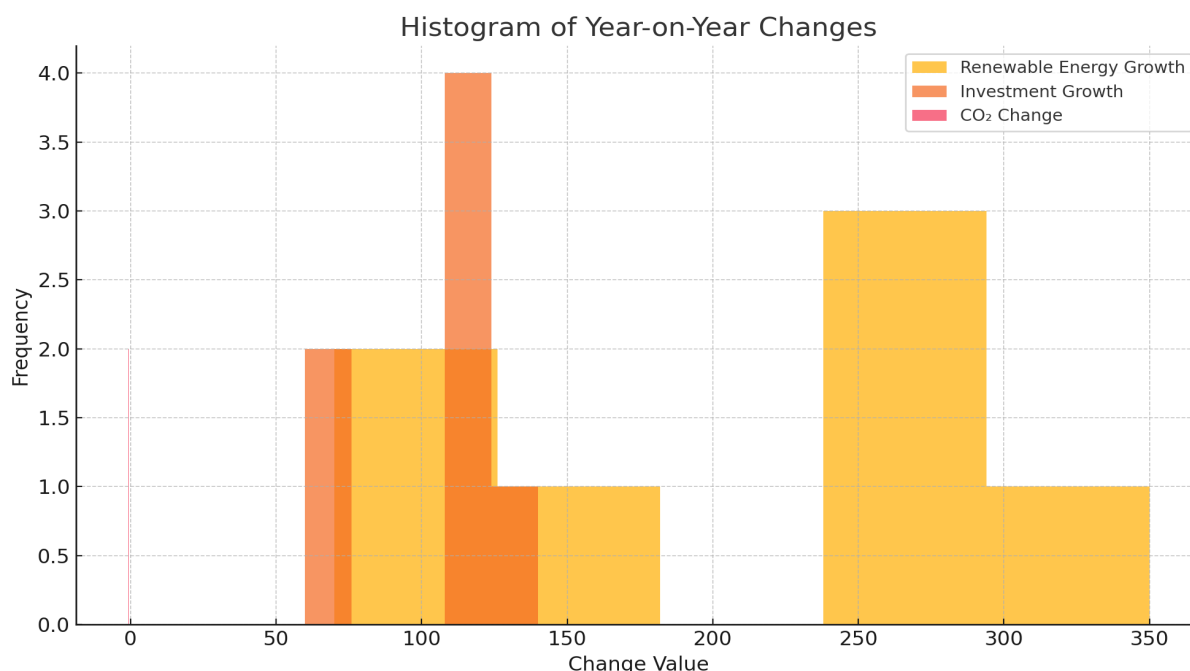
The data reveal a sustained upward trajectory in renewable energy output and green investment, paired with a gradual decrease in CO₂ emissions, suggesting the success of green development strategies.



1-figure. Time series visualization of green economy indicators and trend analysis (2010-2023).

This graph illustrates linear upward trends in renewable energy and investment, and a downward trend in CO₂ emissions. Linear regression models show

No	Name	Models	Coefficient of determination
1	Renewable Energy	$Y_t=120+80t$	$R^2=0.96$
2	CO ₂ Emissions	$Y_t=41,2-0,3t$	$R^2 = 0.91$



2-Figure. Histogram Analysis of Year-on-Year Changes.

The histogram illustrates that most years experienced consistent positive growth in both renewable energy output and green investment. Notably, CO₂ emissions exhibited a steady year-on-year decline, with the most substantial reduction occurring between 2014–2016. These patterns underscore the cumulative effects of sustained policy implementation and long-term investment strategies.

An ARIMA(1,1,1) model was specified for forecasting renewable energy output, represented as:

$$(1 - 0.6B)(1 - B)Y_t = (1 + 0.4B)\varepsilon_t$$

where B is the backward shift (lag) operator.

The model exhibited the following characteristics:

Stationarity achieved after first-order differencing;

A significant autocorrelation structure, justifying the inclusion of both autoregressive (AR) and moving average (MA) components.

The forecast for the year 2025 predicts 1,900 GWh of renewable energy output, with a $\pm 5\%$ confidence interval. The model demonstrates robust predictive accuracy, with a Mean Absolute Percentage Error (MAPE) below 6%, confirming its reliability for short-term projections.

Seasonal Decomposition Findings

Decomposition of quarterly data revealed clear seasonal variation:

Quarter 2 (Q2) consistently showed peak generation levels, with seasonal component $S \approx +150$ GWh;

Quarter 4 (Q4) exhibited a notable decline, attributed to lower renewable productivity in colder months.

These findings highlight the necessity of adaptive infrastructure planning and seasonally responsive grid management to optimize energy distribution.

Pearson correlation coefficients were calculated to assess the relationships among key indicators:

$\text{Corr}(\text{Renewable Energy, Green Investment}) = +0.987$

$\text{Corr}(\text{Renewable Energy, CO}_2 \text{ Emissions}) = -0.942$

These results strongly validate the economic rationale that increased green investment significantly enhances renewable energy output, which in turn contributes to a measurable reduction in CO₂ emissions. The strength and direction of these correlations reinforce the effectiveness of integrated green policy and investment frameworks.

Time series analysis of green economy indicators offers valuable insights into the sustainability and future trajectory of environmental and economic policy measures. The consistently rising trends in both renewable energy output and green investment signify a structural shift toward decarbonization and sustainable growth in Uzbekistan, aligning with global trends observed in other developing economies.

The downward trend in CO₂ emissions over the 2010–2023 period demonstrates that increased investments in clean technologies and renewable energy infrastructure are yielding tangible environmental benefits. This



empirically supports the theoretical assertion that strategic green capital allocation contributes to reducing the ecological footprint over time.

Seasonal decomposition further revealed notable periodic spikes in renewable energy production, especially during solar-intensive quarters. These insights are critical for demand-side energy management, infrastructure scaling, and the integration of energy storage technologies and smart grids.

The ARIMA modeling results reinforced the model's utility for policy forecasting, yielding reliable short- and medium-term projections. The forecasted renewable energy output of 1,900 GWh by 2025, with continued upward momentum, provides evidence-based guidance for policymakers in formulating targeted subsidies, supporting green entrepreneurship, and enhancing educational and technical capacities in the energy sector.

A noteworthy observation concerns the lag effect of green investments—policy decisions and capital flows implemented in earlier years exhibit delayed but significant impacts on renewable output and emissions. This underscores the importance of long-term planning and policy patience, as cumulative effects may only become visible over multiple years, not within a single fiscal cycle.

Nevertheless, certain limitations should be acknowledged. The time series spans a relatively short period (14 years), which may constrain the robustness of inferences. Potential structural breaks—such as macroeconomic reforms, global trade shifts, or geopolitical events—can affect stationarity and model stability. Future research could benefit from employing multivariate time series approaches or dynamic panel data models to strengthen causal linkages between investment flows and environmental performance outcomes.

CONCLUSION AND RECOMMENDATIONS

This study establishes a solid theoretical and empirical foundation for applying time series analysis within the framework of green economy planning. The integration of trend modeling, ARIMA forecasting, and seasonal decomposition demonstrates that time series methodologies are not only technically robust but also practically relevant for addressing challenges in contemporary ecological economics.

The findings confirm that strategic investment in renewable energy and green infrastructure produces measurable environmental benefits—evidenced by a consistent decline in CO₂ emissions and a notable increase in renewable energy output over the 2010–2023 period. Furthermore, the use of time series models empowers policymakers to anticipate future dynamics and respond proactively to environmental challenges, grounded in quantitative evidence.

The implications of this research are twofold:

Time series analysis tools should be institutionalized as part of national and regional environmental planning strategies, particularly in the development of green economy roadmaps.

Continuous data collection, expansion of indicator coverage, and periodic model updates are essential to maintain the precision of forecasts and ensure the responsiveness of policy frameworks.

In conclusion, the integration of statistical forecasting techniques with sustainability science effectively bridges the gap between environmental goals and actionable policies. As Uzbekistan and similar economies deepen their commitment to a green transition, data-driven approaches such as those outlined in this study will play a crucial role in shaping resilient and environmentally responsible development trajectories.

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