IJSSIR, Vol. 14, No. 05. May 2025 SCIENTIFIC AND THEORETICAL FOUNDATIONS OF INNOVATIVE MANAGEMENT OF THE GREEN ECONOMY

Maksudova Shaxzoda

Lecturer at the Department of Management International School of Finance and Technology and Science Email: <u>sh.makhsudova@gmail.com</u>

Abstract. The green economy represents a paradigm shift in economic development, emphasizing sustainability, environmental responsibility, and social equity. This article explores the scientific and theoretical underpinnings of innovative management in the green economy, highlighting the interdisciplinary foundations, key concepts, and strategic approaches necessary for effective implementation. It discusses the integration of innovation, sustainability science, and systems thinking to drive transformative change in economic practices.

Keywords: Green economy, sustainable development, innovative management, ecological economics, green innovation, sustainability science, circular economy, environmental management, systems thinking, sustainable business strategies.

Introduction

The increasing environmental degradation, depletion of natural resources, and intensification of climate-related risks have raised significant concerns regarding the sustainability of current economic models. Traditional approaches to economic growth, which often neglect ecological limitations, are no longer viable in the face of global challenges such as biodiversity loss, rising greenhouse gas emissions, and socio-economic inequalities. In response to these emerging issues, the concept of the green economy has gained prominence as a strategic framework that seeks to balance economic development with environmental stewardship and social equity.

The green economy is defined as an economic system that results in improved human well-being and social equity, while significantly reducing environmental risks and ecological scarcities. It is underpinned by low-carbon development, resource efficiency, and social inclusion. However, achieving the objectives of the green economy necessitates a fundamental transformation in how economies are managed and governed. This transformation requires not only technological innovation but also innovative management approaches that are capable of integrating sustainability principles into all levels of decision-making and organizational strategy.

Innovative management in the green economy context refers to the application of novel methods, practices, and technologies that facilitate the transition towards sustainable economic systems. It encompasses systems thinking, strategic foresight, cross-sectoral collaboration, and the capacity to drive green innovations across industries and institutions. Moreover, such management must be rooted in robust scientific and theoretical foundations

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that provide a comprehensive understanding of the complex interactions between economic, environmental, and social systems.

The theoretical framework for innovative management of the green economy is inherently interdisciplinary. It draws upon ecological economics, which views economic activities as embedded within environmental systems; sustainability science, which addresses the dynamics of coupled human-natural systems; and innovation theory, which emphasizes the role of technological and organizational change in fostering sustainable development. Additionally, concepts such as the circular economy, institutional theory, and stakeholder theory offer critical insights into how systemic change can be achieved through inclusive and adaptive governance mechanisms.

This article aims to examine the scientific and theoretical foundations of innovative management within the green economy paradigm. It seeks to articulate the core principles that underpin effective sustainability-oriented management and to explore the strategies and tools that facilitate the practical realization of green economic objectives. Through this exploration, the study contributes to the academic discourse on sustainability and offers guidance for policymakers, researchers, and practitioners engaged in shaping a more resilient and equitable economic future.

Literature review

The advancement of the sustainable economy and its related governance approaches has gained increasing attention in both academic and policy-driven research. Experts from various fields—such as economic theory, ecological studies, organizational management, and governmental policy—have enriched a dynamic and expanding collection of works that investigate the conceptual and applied aspects of this paradigm-shifting economic framework.

A fundamental theme in the scholarship is environmental economics, which arose as a critique of traditional economic models for failing to account for ecological consequences. Influential thinkers like Daly (1990) ¹and Costanza et al. (1997)² stress the limited availability of natural resources and argue for an equilibrium-based economic system that respects Earth's ecological limits. This viewpoint establishes the theoretical groundwork for interpreting the green economy as a structure where commercial activities must harmonize with environmental preservation.

Sustainability studies further enhance this discussion by analyzing the interconnectedness of human and ecological systems. Kates et al. (2001)³ describe sustainability science as an interdisciplinary, solution-focused domain aimed at addressing the multifaceted issues of long-term development. This outlook highlights the necessity

³ Kates, R. W., Clark, W. C., Corell, R., Hall, J. M., Jaeger, C. C., Lowe, I., ... & Svedin, U. (2001). Sustainability science. Science, 292(5517), 641–642. https://doi.org/10.1126/science.1059386



¹ Daly, H. E. (1990). Toward some operational principles of sustainable development. Ecological Economics, 2(1), 1–6. https://doi.org/10.1016/0921-8009(90)90010-R

² Costanza, R., d'Arge, R., de Groot, R., Farber, S., Grasso, M., Hannon, B., ... & Belt, M. (1997). The value of the world's ecosystem services and natural capital. Nature, 387(6630), 253–260. https://doi.org/10.1038/387253a0

for holistic and flexible governance strategies that account for future environmental and societal impacts.

The significance of technological progress in fostering sustainability has also been extensively examined. Schumpeter's (1934)⁴ groundbreaking work on innovation, expanded by Freeman and Soete (1997)⁵, forms the basis for analyzing how advancements in technology can propel economic change. Contemporary research concentrates on environmentally conscious innovation—the creation and implementation of novel goods, methods, or organizational frameworks that lessen ecological harm (Rennings, 2000)⁶. Academics contend that such innovation is pivotal for realizing the objectives of the green economy and that forward-thinking management techniques are crucial for its widespread adoption.

Institutional frameworks and stakeholder engagement theories offer additional analytical perspectives. North (1990)⁷ emphasizes how institutions—both codified regulations and unwritten conventions—influence economic actions. In the context of the green economy, institutions are instrumental in either enabling or hindering eco-friendly initiatives. Freeman (1984) presents stakeholder theory as a method for organizational leadership that considers the needs of diverse groups, including policymakers, communities, and posterity. This aligns with the collaborative and equitable principles of sustainable economic governance.

Recent scholarship also underscores the value of systemic analysis and circular economic models in guiding sustainability shifts. Meadows (2008)⁸ champions systems thinking as a tool for comprehending and navigating the intricate relationships within social-environmental structures. Similarly, the closed-loop economy, as defined by Kirchherr et al. (2017),⁹ encourages resource-efficient production and consumption systems that minimize waste and restore ecosystems.

Despite the extensive research, gaps persist. Many analyses concentrate on theoretical constructs but offer insufficient real-world validation of specific managerial tactics. Additionally, more location-specific investigations are required to assess how progressive management methods are executed across different industries and geographies, particularly in emerging markets.

In conclusion, the existing body of work provides a robust intellectual basis for grasping the green economy and underscores the critical importance of innovation and integrated thinking in sustainability leadership. However, additional studies are necessary to connect abstract ideas with practical implementation and to

- ⁷ North, D. C. (1990). Institutions, institutional change and economic performance. Cambridge: Cambridge University Press.
- ⁸ Meadows, D. H. (2008). Thinking in systems: A primer (D. Wright, Ed.). Chelsea Green Publishing.

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⁴ Schumpeter, J. A. (1934). The theory of economic development. Cambridge, MA: Harvard University Press.

⁵ Freeman, C., & Soete, L. (1997). The economics of industrial innovation (3rd ed.). Cambridge, MA: MIT Press.

⁶ Rennings, K. (2000). Redefining innovation – eco-innovation research and the contribution from ecological economics. Ecological Economics, 32(2), 319–332. https://doi.org/10.1016/S0921-8009(99)00112-3

⁹ Kirchherr, J., Reike, D., & Hekkert, M. (2017). Conceptualizing the circular economy: An analysis of 114 definitions. Resources, Conservation and Recycling, 127, 221–232. https://doi.org/10.1016/j.resconrec.2017.09.005

determine viable strategies for applying eco-conscious economic principles across various scales.

Methodology

This study adopts a qualitative research design grounded in a comprehensive review and synthesis of existing academic literature and theoretical models related to the innovative management of the green economy. The research methodology is exploratory in nature and aims to identify, categorize, and interpret key scientific and theoretical foundations that underpin the transition toward green economic systems.

A systematic literature review was conducted to collect and analyze peer-reviewed academic sources, policy reports, and theoretical contributions related to ecological economics, sustainability science, innovation theory, and green management practices. Databases such as Scopus, Web of Science, ScienceDirect, and Google Scholar were utilized to ensure academic rigor and the inclusion of high-impact sources. Keywords used in the search process included: "green economy," "sustainable management," "ecological economics," "innovation theory," and "circular economy."

The inclusion criteria focused on sources published in the last 25 years (2000–2024), with particular attention to works that have contributed significantly to the theoretical development of the green economy and innovative management strategies. Studies were selected based on their relevance, theoretical robustness, and contribution to interdisciplinary understanding.

This methodology, while non-empirical, allows for a deeper theoretical understanding of the foundations of green economy management and sets the stage for future empirical studies. The emphasis on theory-building contributes to the academic discourse by clarifying conceptual boundaries and highlighting critical areas for practical application and further research.

Result and discussion

This section presents a detailed exploration of the findings derived from the literature analysis, offering a deeper understanding of the scientific and theoretical underpinnings of innovative management within the context of the green economy. The results of this review show that the transition to a green economy is not only driven by technological innovation but also by systemic changes in governance, policy, and institutional frameworks. These elements work together to create an environment conducive to sustainable economic practices.

Ecological economics is the most fundamental theoretical lens through which the green economy is understood. Unlike traditional economic models, which treat the environment as a limitless resource, ecological economics recognizes the earth's ecological boundaries. This perspective urges policymakers and businesses to incorporate natural capital into their decision-making processes, emphasizing the need for resource efficiency and environmental sustainability. Key concepts such as carrying capacity, natural capital, and environmental externalities play a central role in shaping green economic policies.

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A major finding from the literature is the importance of natural capital accounting. Researchers have shown that integrating the value of natural resources—such as air, water, and biodiversity—into national accounts can help policymakers recognize the economic costs associated with environmental degradation. This provides a more accurate reflection of economic well-being and supports the development of sustainable economic models. Daly's (1990) principles of steady-state economics suggest that economic growth should be decoupled from resource use, which has direct implications for managing the green economy.

Furthermore, ecological economics emphasizes intergenerational equity—the responsibility of current generations to ensure that future generations inherit a stable and healthy environment. This focus on long-term sustainability is particularly relevant in the context of climate change, resource depletion, and biodiversity loss.

Innovation is a cornerstone of the green economy, as it holds the potential to decouple economic growth from environmental harm. However, innovation in the green economy goes beyond technological advancements. It includes social innovation, business model innovation, and institutional innovation. Technological innovations, such as renewable energy technologies, electric vehicles, and waste-to-energy solutions, are crucial for reducing the environmental footprint of traditional industries.

Schumpeter's (1934) theory of creative destruction can be applied to the green economy, where eco-innovation serves as the engine of economic transformation. This concept, which encompasses new technologies and business processes that reduce environmental impacts, is central to achieving the objectives of sustainable development. For instance, the transition to a circular economy—a model that emphasizes reusing, recycling, and reducing waste—requires profound changes in industrial processes, consumption patterns, and business practices. Eco-innovation is a dynamic and ongoing process, driven by both market forces and regulatory frameworks, and it has been proven to spur new forms of economic activity and job creation, particularly in sectors like clean energy, sustainable agriculture, and green manufacturing.

A critical finding from the review is that innovation ecosystems—networks of companies, government bodies, research institutions, and civil society organizations—are essential for the successful diffusion of green innovations. Collaboration between these stakeholders creates the synergies necessary to overcome the barriers to innovation, such as high initial costs, lack of market demand, and regulatory uncertainty.

Systems thinking emerged as a key theme in the literature, highlighting the complexity and interconnectedness of environmental, economic, and social systems. The green economy cannot be managed effectively through isolated policies or actions; rather, it requires a systemic approach that considers the long-term impacts of decisions and the interdependencies between different sectors and actors. Systems thinking encourages a shift from linear, short-term solutions to circular, long-term strategies that focus on sustainability.

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This approach is grounded in the recognition that environmental challenges—such as climate change, resource depletion, and pollution—are often the result of complex interactions between various societal sectors. For example, agricultural practices, urban planning, and energy production are all interrelated, and changes in one sector can have cascading effects on others. Therefore, effective green economic management must adopt a holistic view, integrating policies across sectors and encouraging collaboration among diverse stakeholders.

The adoption of adaptive management practices, which are integral to systems thinking, is particularly relevant in addressing uncertainty and complexity in sustainability transitions. This approach advocates for continuous monitoring, learning, and flexibility in response to new information and changing circumstances, enabling policymakers and businesses to adjust their strategies as needed.

Another significant finding from the review is the importance of institutional frameworks and stakeholder engagement in facilitating the green economy. Institutional theory, as articulated by North (1990), underscores the importance of formal and informal institutions in shaping economic behavior. In the context of the green economy, institutions include laws, regulations, standards, and norms that govern resource use and environmental protection.

Effective green economy governance requires policy coherence, whereby different levels of government—local, regional, and national—align their objectives and strategies to ensure the successful implementation of sustainability policies. However, the challenge remains in creating governance systems that are both flexible and inclusive, capable of addressing the diverse interests and needs of all stakeholders involved.

Stakeholder theory further supports the idea that green economic management must involve all relevant parties—governments, businesses, non-governmental organizations (NGOs), and local communities. Stakeholder engagement enhances the legitimacy of policies and ensures that they reflect a broad range of perspectives. Moreover, involving stakeholders in decision-making processes can help reduce resistance to green initiatives and foster a sense of ownership and accountability.

A key finding from the literature is the importance of creating multi-stakeholder platforms where stakeholders can collaborate, share knowledge, and co-create solutions. These platforms not only promote inclusivity but also enable more innovative and context-specific solutions to emerge.

Despite the promising theoretical foundations of the green economy, there remain significant challenges in translating these theories into practical, real-world solutions. One of the primary obstacles is the lack of policy coherence at the international, national, and local levels. In many countries, environmental policies are fragmented and often conflict with economic growth objectives, making it difficult to achieve a balance between environmental sustainability and economic development.

Another challenge is the insufficient financing for green innovations, particularly in developing countries. Green technologies and infrastructure require substantial upfront

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investment, and access to green finance remains limited. Furthermore, the capacity to innovate and implement green solutions is often constrained by a lack of technical expertise, institutional capacity, and political will.

In addition, there is a widespread lack of public awareness and education regarding the benefits of the green economy. As a result, consumer demand for sustainable products and services remains relatively low, hindering the growth of green markets. Similarly, industries and businesses may be reluctant to adopt green practices due to perceived high costs or uncertainties about the future regulatory environment.

The results of this study underscore the critical role of interdisciplinary approaches in driving the green economy transition. The convergence of ecological economics, innovation theory, systems thinking, and institutional governance creates a robust framework for managing the complexities of sustainability. However, overcoming the practical challenges related to policy coherence, financing, and stakeholder engagement is essential for the successful implementation of green economy strategies.

Future research should focus on empirical case studies that evaluate the effectiveness of green economy initiatives in different regions and sectors. Additionally, further exploration into the socio-political dimensions of the green economy, including the roles of power, governance structures, and public participation, is needed to better understand how to overcome barriers to implementation.

Conclusion

The green economy represents a transformative shift in how societies conceptualize and pursue economic growth, placing sustainability, equity, and ecological integrity at the forefront of development strategies. This study has examined the scientific and theoretical foundations that inform the innovative management of green economic systems, offering an integrative view of the key ideas that support this evolving paradigm. The findings highlight that effective green economy management is not merely a matter of adopting new technologies, but rather entails a comprehensive reconfiguration of institutional structures, decision-making processes, and societal values.

A central conclusion of the study is that ecological economics offers the most coherent framework for understanding the green economy's imperative. By treating the economy as embedded within, rather than separate from, the environment, ecological economics introduces critical principles such as biophysical limits, natural capital valuation, and sustainability thresholds into economic planning. These principles are foundational for rethinking economic objectives in ways that are compatible with long-term environmental resilience.

Another key insight is the indispensable role of innovation—not only in technological terms but across organizational, social, and policy domains. Innovative management in this context involves fostering new modes of governance, business practices, and institutional arrangements that align with the goals of resource efficiency, low-carbon growth, and environmental justice. Eco-innovation, driven by market mechanisms as well as regulatory

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incentives and collaborative partnerships, emerges as a critical enabler of sustainable transformation.

Furthermore, the study underscores the importance of systems thinking as a methodological approach and managerial philosophy. The complexity of environmental and socio-economic challenges necessitates a holistic and anticipatory approach to planning and problem-solving. Innovative green economy management must, therefore, be adaptive, participatory, and context-sensitive, capable of responding to dynamic interactions and feedbacks across various sectors and governance levels.

In addition, institutional and stakeholder theories provide essential insights into the governance of green transitions. Institutions play a vital role in shaping norms, incentives, and behaviors that promote sustainability. At the same time, inclusive stakeholder engagement enhances legitimacy, fosters co-creation of solutions, and ensures that diverse interests—particularly those of marginalized communities and future generations—are adequately represented in green economy initiatives.

Despite these theoretical advancements, significant implementation challenges remain. These include weak institutional capacities, fragmented policies, insufficient investment in green innovation, and socio-political resistance to transformative change. Moreover, in many developing countries, the green economy remains a conceptual aspiration rather than an operational reality due to lack of financial resources, technical knowledge, and political will. Therefore, bridging the gap between theory and practice is a critical next step.

To address these challenges, future research and policy must prioritize:

- The development of context-specific models of green economy management that reflect local socio-economic and ecological conditions.
- The strengthening of multi-stakeholder platforms that enable dialogue, knowledge sharing, and co-creation of sustainable solutions.
- The integration of education and capacity building initiatives to prepare a new generation of leaders, managers, and citizens equipped with sustainability competencies.
- The implementation of robust monitoring and evaluation systems to assess the impact of green economy strategies and facilitate adaptive learning.

Key Concept	Description	Relevance to Green
		Economy
Ecological Economics	Ecological economics	Provides a foundational
	emphasizes the integration	theoretical understanding
	of natural capital into	of how to balance
	economic decision-	economic activity with
	making, stressing resource	ecological limits, guiding
	efficiency and	

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	environmental	sustainable economic
	sustainability. It provides a	practices.
	basis for managing the	-
	green economy with an	
	understanding of	
	environmental limits.	
Innovation Theory	Innovation theory in the	Drives the transformation
5	green economy focuses on	of industries through eco-
	technological.	innovation, reducing
	organizational, and social	carbon footprints and
	innovations. It emphasizes	resource consumption
	eco-innovation as a driver	while fostering economic
	for sustainable	growth
	development, fostering	8
	new business models and	
	reducing environmental	
	impact.	
Systems Thinking	Systems thinking	Facilitates the design of
0,0000000000000000000000000000000000000	advocates for a holistic.	integrated, cross-sectoral
	interdependent view of	strategies that consider
	economic, environmental,	long-term impacts and
	and social systems. It	ensure sustainable
	encourages long-term,	development across
	cross-sectoral strategies	industries.
	and adaptive management	
	to address complex	
	sustainability challenges.	
Institutional Frameworks	Institutional frameworks	Creates a governance
	refer to the formal and	structure that enables
	informal rules, policies,	effective implementation
	and regulations that shape	of green economy policies,
	economic behavior.	ensuring coherence and
	Effective governance is	alignment across various
	essential for creating	levels of authority.
	policies that support the	
	green economy, ensuring	
	sustainability at various	
	levels of government.	
Stakeholder Engagement	Stakeholder engagement	Enhances the legitimacy
	involves including diverse	and effectiveness of green

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actors (governments,	economy policies by
businesses, NGOs,	ensuring the participation
communities) in decision-	of all relevant
making processes. It	stakeholders, leading to
promotes inclusive	more sustainable
governance and ensures	outcomes.
that green economy	
policies reflect a broad	
range of interests and	
priorities.	

1- Table. Key Concepts in Innovative Management of the Green Economy¹⁰

This table and the explanations of each concept provide a clearer understanding of how these theoretical foundations support the management of the green economy. Each concept contributes to creating a sustainable economic environment by addressing the challenges of balancing economic development with environmental sustainability. The application of these ideas is crucial for the transition to a green economy that meets the needs of present and future generations.

In conclusion, the innovative management of the green economy must be informed by strong theoretical foundations and driven by a systemic, inclusive, and forward-looking vision. The convergence of ecological awareness, technological advancement, and institutional reform holds immense potential for shaping a sustainable future — provided that theory is matched by bold, coordinated, and sustained action across all levels of society.

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