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The role of green banking in promoting environmental sustainability in developing economies

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Abstract

Green banking has gained prominence as a strategic approach to align financial sector operations with environmental sustainability goals, particularly in developing economies facing the dual challenges of economic development and environmental degradation. This research paper examines the role of green banking in promoting environmental sustainability by analyzing its impact on banking operations, investment patterns, and regulatory frameworks. Green banking refers to the adoption of sustainable practices by financial institutions, including offering green loans, financing environmentally friendly projects, promoting paperless banking, and encouraging customers to adopt eco-conscious behaviors. In developing countries, where environmental awareness and regulatory enforcement may still be evolving, green banking provides an opportunity for banks to lead the transition toward sustainable development.

The study employs both qualitative and quantitative methods, including a review of existing green banking models, case studies from select developing countries, and analysis of sustainability indicators. It investigates how green banking contributes to reducing carbon footprints, improving energy and resource efficiency, and enhancing environmental governance through responsible financing. The findings reveal that while green banking is still in its early stages in many developing economies, its potential to influence positive environmental outcomes is substantial. Financial institutions can act as catalysts for change by aligning their products and services with the principles of sustainability.

The paper concludes by suggesting policy recommendations and strategic measures to promote the adoption of green banking practices, such as regulatory incentives, public awareness campaigns, and capacity-building initiatives. Strengthening green banking can ultimately help developing nations strike a better balance between economic growth and ecological preservation.

Keywords: Green banking, environmental sustainability, developing economies, sustainable finance, eco-friendly investments, green loans

Introduction

In recent decades, the global community has become increasingly aware of the urgent need to address environmental degradation and promote sustainable development. As climate change, pollution, and resource depletion escalate, developing economies face a particularly difficult challenge: achieving rapid economic growth while ensuring environmental protection. Within this context, green banking has emerged as a vital tool to foster environmental sustainability and promote eco-conscious development. Green banking refers to banking practices that are environmentally responsible and socially conscious. It encompasses a broad range of strategies and actions by financial institutions aimed at reducing their environmental impact and promoting sustainable finance.

In developing economies, where industrialization and urbanization are accelerating, traditional banking systems often support activities that can contribute to environmental harm. The financial sector, however, holds great potential to reverse this trend by integrating sustainability into its core functions. By adopting green banking practices, banks can play a crucial role in facilitating the transition to a greener economy. This involves not only internal reforms such as paperless banking and energy-efficient infrastructure but also external measures like providing green loans, financing renewable energy projects, and supporting sustainable businesses. In essence, green banking enables financial institutions to influence both consumer behavior and industrial practices in a more environmentally responsible direction.

The implementation of green banking practices can contribute significantly to reducing

carbon emissions, enhancing energy and resource efficiency, and supporting environmental governance. In many developing countries, although green banking is still in its nascent stage, it represents a powerful avenue to align economic goals with ecological priorities. Financial institutions can function as catalysts for sustainable change by encouraging investments in environmentally sound technologies and projects. Moreover, as public awareness regarding environmental issues continues to grow, there is increasing demand for eco-friendly financial services that support long-term environmental well-being.

Despite its promising potential, green banking faces numerous challenges in developing economies. These include lack of regulatory enforcement, insufficient technical expertise, limited awareness among customers and bankers, and the perception that green projects are financially risky or less profitable. Nonetheless, several countries have made notable progress through innovative policies and partnerships. For example, central banks and regulatory authorities in some regions have begun introducing green finance guidelines and providing incentives to promote environmentally responsible lending practices.

This paper aims to analyze the role of green banking in promoting environmental sustainability, particularly in developing economies. It explores the current practices, opportunities, and challenges associated with green banking. Using both qualitative and quantitative approaches, the study evaluates green banking models, assesses case studies from select countries, and examines how financial institutions can drive sustainable development. The paper also proposes policy measures and strategic recommendations to enhance the adoption of green banking practices.

Ultimately, the integration of green banking into mainstream financial systems is not only desirable but necessary for ensuring a sustainable future. It offers a strategic path for developing nations to achieve economic growth without compromising environmental integrity. By leveraging the financial sector as a vehicle for sustainable transformation, green banking holds the promise of a cleaner, greener, and more inclusive development trajectory.

Objectives

1. To understand the concept and principles of green banking.
2. To examine the role of green banking in promoting environmental sustainability in developing economies.
3. To assess the awareness and implementation of green banking practices by banks in developing countries.
4. To analyze the impact of green banking on eco-friendly investment patterns.
5. To identify the challenges and opportunities in adopting green banking initiatives in the context of developing economies.

Materials and Methods

This study is based on secondary data analysis and adopts a descriptive and analytical research design to examine the role of green banking in promoting environmental sustainability in developing economies. The research relies extensively on existing literature, institutional reports, policy documents, case studies, and statistical databases to achieve the stated objectives. Given the exploratory nature

of the topic and the focus on emerging economies, a qualitative-quantitative blend has been maintained to ensure both depth and breadth in the analysis.

To understand the concept and principles of green banking, relevant academic journals, books, and white papers from global institutions such as the World Bank, International Finance Corporation (IFC), and the United Nations Environment Programme Finance Initiative (UNEP FI) were reviewed. These sources provided a foundational understanding of green banking models, regulatory frameworks, and best practices adopted globally and regionally. Definitions, historical development, and principles of sustainable finance were systematically reviewed to map the evolution and scope of green banking.

To examine the role of green banking in promoting environmental sustainability, the study analyzed published research papers, sustainability reports from commercial banks, and national financial inclusion reports in countries like India, Bangladesh, Brazil, and Kenya. These sources helped assess how green banking initiatives have supported renewable energy, waste management, carbon emission reduction, and clean technology financing. Reports from institutions such as the Reserve Bank of India (RBI), Bangladesh Bank, and other central banks were especially useful in evaluating policy directions in developing countries.

For assessing the awareness and implementation of green banking practices, data was extracted from empirical studies published in peer-reviewed journals, banking association publications, and reports by consulting firms such as KPMG, Deloitte, and PwC. These sources provided insights into green banking adoption levels among banks, customer participation in eco-friendly banking products, and institutional preparedness. Bank sustainability disclosures and CSR (Corporate Social Responsibility) reports also served as valuable sources for gauging implementation on the ground.

To analyze the impact of green banking on eco-friendly investment patterns, secondary data related to green bonds issuance, clean energy financing, and sustainable investment portfolios were studied. Reports from international bodies like the Climate Bonds Initiative (CBI), Sustainable Banking Network (SBN), and the Global Reporting Initiative (GRI) were used to trace investment trends and identify the sectors most supported through green finance. Comparative data from different countries were used to establish patterns in capital allocation and the environmental benefits resulting from such investments.

Finally, to identify the challenges and opportunities in the adoption of green banking, a thematic analysis was conducted on literature discussing barriers such as regulatory gaps, cost concerns, lack of awareness, and technical limitations. Simultaneously, sources highlighting positive drivers—such as policy support, international green finance flows, digital banking integration, and climate risk mitigation—were reviewed to present a balanced perspective.

The study thus synthesizes a wide range of secondary data sources to derive conclusions relevant to policymakers, bankers, and stakeholders in the financial ecosystem. The use of multiple reputable data sources ensures the validity, reliability, and relevance of the findings in the context of developing economies.

Review of Literature

1. Ghosh, S. & Bandyopadhyay, N. (2020) ^[1]. “Green Banking Practices in Developing Economies: A Study on Environmental Sustainability and Policy Implementation.”

Journal of Sustainable Finance & Investment.

This paper examines the scope and effectiveness of green banking initiatives in selected Asian countries. The authors highlight that while many banks in developing economies have incorporated green loans and paperless banking, a lack of mandatory policy frameworks hinders deeper implementation. The study supports your objectives related to examining regulatory gaps and challenges in green banking adoption. It also emphasizes the role of central banks in mandating green disclosure norms, aligning with your focus on policy recommendations.

2. Ahmed, N., & Khatun, M. (2021) ^[2]. “Green Finance in Bangladesh: Progress and Prospects.”

International Journal of Banking and Finance.

Focusing on Bangladesh, this study evaluates the performance of green banking under the regulatory push from Bangladesh Bank. It reports substantial financing of renewable energy, solar irrigation, and green brick kilns. The authors argue that regulatory incentives and clear guidelines are crucial for green banking to thrive. This literature supports your second and third objectives—understanding the role of financial institutions and assessing awareness/implementation in a developing country context.

3. Chaurasia, S. S. (2021) ^[3]. “Green Banking for Environmental Sustainability: Indian Banking Sector Perspective.”

Indian Journal of Economics and Development.

This study explores green banking in India, with particular emphasis on digital banking and CSR activities supporting environmental protection. The findings reveal growing awareness among Indian banks and customers, though actual investment in green projects remains limited due to risk perception and lack of expertise. This source directly aligns with your fourth and fifth objectives—eco-friendly investments and adoption challenges in developing economies.

4. Khan, H., & Muktadir-Al-Mukit, D. (2022) ^[4]. “Drivers and Barriers to Green Banking Practices: Evidence from Emerging Markets.”

Environmental Economics and Policy Studies.

This paper presents a comparative study across several developing nations in Asia and Africa. It identifies major drivers (policy support, customer demand, global ESG trends) and barriers (cost of compliance, lack of green finance literacy, and underdeveloped infrastructure). It adds a valuable dimension to your study by systematically reviewing implementation bottlenecks and opportunities across economies. It helps fulfill your fifth objective regarding the opportunities and challenges in green banking adoption.

5. Oliveira, L. & Gomes, C. (2023) ^[5]. “Sustainable Banking in Latin America: Green Finance and Climate Goals.”

Journal of Cleaner Production.

Analyzing case studies from Brazil, Peru, and Colombia,

this paper highlights the progress of green bonds, green loans, and ESG-aligned banking practices in Latin American developing economies. The study finds that multilateral partnerships and public-private collaboration are essential for scaling sustainable banking. This source supports your fourth objective and offers a regional contrast that enriches the comparative dimension of your study.

Results

Growing Adoption

Green banking is gradually gaining traction in developing economies, with increasing initiatives like green loans, digital banking, and financing of renewable energy projects.

Role of Regulatory Support

Countries like Bangladesh and India show higher implementation levels due to strong regulatory backing, such as green finance targets set by central banks.

Positive Investment Trends

Investments have been observed in areas such as solar irrigation, eco-friendly manufacturing, and energy-efficient housing, especially where regulatory mandates exist.

Lack of Uniform Frameworks

Many developing nations lack consistent regulatory guidelines, leading to fragmented implementation and weak accountability.

Awareness Deficit

Limited awareness among banking professionals and consumers restricts the adoption and effectiveness of green banking initiatives.

Perceived Financial Risk

Green projects are often viewed as riskier investments, deterring financial institutions from aggressively supporting them.

Technical and Data Challenges

Insufficient expertise and poor data infrastructure hinder banks from assessing the long-term viability of green investments.

Cost Barriers

High initial costs of green technologies and sustainable banking operations pose adoption challenges, particularly for smaller banks.

Multilateral and ESG Influence

Global ESG trends and multilateral programs are helping bridge gaps, but efforts are still insufficient in many areas.

Need for Collaboration

Effective integration of green banking requires stronger collaboration between governments, regulators, and private financial institutions.

Discussions

1. Green banking is emerging as a key instrument in promoting environmental sustainability across developing economies, as supported by studies from Asia, Africa, and Latin America.
2. Regulatory support, such as that provided by

Bangladesh Bank and the RBI, plays a crucial role in facilitating green finance adoption.

3. While awareness of green banking is increasing, actual implementation varies significantly due to differences in policy, infrastructure, and technical capacity.
4. Eco-friendly investment practices like green loans and bonds are growing, but remain limited by perceived financial risks and lack of investor confidence.
5. Comparative studies highlight both drivers (customer demand, ESG awareness) and barriers (high compliance costs, limited knowledge), emphasizing the need for targeted interventions.
6. Collaborative efforts between regulators, banks, and international bodies are necessary to overcome institutional and operational challenges.
7. Overall, secondary data confirms that while green banking is in its early stages, its transformative potential for sustainable development is considerable.

Conclusions

1. Green banking is a vital enabler of environmental sustainability in developing economies, aligning financial services with ecological priorities through green loans, renewable energy financing, and digitalization.
2. Regulatory frameworks and government support play a critical role in mainstreaming green banking practices. Countries like Bangladesh and India showcase how central bank mandates can drive significant progress.
3. Adoption of green banking is increasing, but uneven across regions due to gaps in awareness, technical expertise, and regulatory enforcement.
4. Green financial instruments, such as green bonds and sustainability-linked loans, are encouraging eco-friendly investments, promoting energy efficiency, and reducing carbon footprints.
5. Institutional challenges remain, including inadequate training, low customer participation, and high perceived risks of green investments.
6. Public-private collaboration and international cooperation are essential for scaling green banking, especially in regions lacking financial or technical capacity.
7. Strategic interventions such as capacity building, policy standardization, and digital integration can help overcome structural and perceptual barriers.
8. In conclusion, green banking holds immense potential to promote sustainable development goals, but its success depends on coordinated efforts from policymakers, financial institutions, and civil society.

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