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ADDRESSING CLIMATE RISKS IN BANGLADESH'S FINANCIAL SYSTEM: EVALUATING THE GREEN FINANCING INITIATIVES OF BANGLADESH BANK**Md. SERAJUL ISLAM****ASST. PROFESSOR****DEPARTMENT OF BUSINESS ADMINISTRATION****CHATTOGRAM CANTONMENT PUBLIC COLLEGE****BAIZID BOSTAMI - 4210, CHATTOGRAM CANTONMENT, CHATTOGRAM, BANGLADESH****ABSTRACT**

This paper examines the green financing initiatives undertaken by Bangladesh Bank, the central bank and financial regulator of Bangladesh. Bangladesh is highly vulnerable to climate change due to its geographical location and population density. The paper highlights the need to address climate risks in the financial sector and emphasizes the potential long-term impacts of climate change on the economy. The study explores the various green financing initiatives implemented by Bangladesh Bank, starting from the issuance of Environmental Risk Management guidelines in 2011 to the establishment of the Sustainable Finance Policy in 2020. These initiatives aim to promote sustainable financing practices, incentivize investments in climate-resilient projects, and support the transition to a low-carbon economy. Limited access to finance, particularly for smaller projects and rural areas, remains a challenge. The study also reviews empirical studies from developed countries on the effectiveness of green financing in addressing climate change. The findings indicate mixed results, with some studies showing a reduction in carbon emissions and shifts in lending practices towards low-carbon industries, while others suggest limited impact on emissions reduction. Based on the analysis, the paper provides recommendations for strengthening green financing initiatives in Bangladesh.

KEYWORDS

Bangladesh bank, climate risks, green financing, sustainable financing, climate-smart financial policies.

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INTRODUCTION

Climate change poses significant threats to financial systems worldwide. In 2015, Mark Carney, former Governor of the Bank of England, highlighted three channels through which climate change shocks can impact financial stability (Carney, 2015). In recent years, central banks and financial regulators have recognized the need to address climate risks and incorporate them into their policy frameworks (Demekas & Grippa, 2021). This recognition stems from the realization that climate change can have widespread and long-lasting effects on the economy and the financial sector (Abdullah et al., 2022).

Bangladesh, a low-lying delta country with a high population density, is particularly vulnerable to climate change. Rising sea levels, frequent cyclones, and erratic rainfall patterns pose significant risks to its agricultural sector and overall economic stability (The World Bank, 2016). These challenges also extend to neighboring countries such as India, Myanmar, Nepal, Pakistan, Thailand, the Philippines, and Vietnam, which face similar climate risks. The Intergovernmental Panel on Climate Change stresses that uncontrolled urbanization and climate-induced migration aggravate the climate change threat in Bangladesh (Hasan & Macdonald, 2021).

Despite impressive economic growth, Bangladesh remains exposed to the impacts of climate change. The COVID-19 pandemic further highlighted the vulnerability of the economy, but the country is now on a path to recovery (The Ministry of Finance, 2021). Bangladesh aspires to achieve middle-income country status, necessitating careful environmental management amidst rapid industrialization and development.

The economic losses stemming from climate risks in Bangladesh and neighboring countries have been substantial. Over the past two decades, Bangladesh has experienced significant financial losses equivalent to 37% of its GDP per unit, mirroring similar trends in neighboring countries (Global Climate Risk Index, 2021). The need for climate change mitigation and adaptation is reflected in the estimated infrastructure gap of USD 26.2 trillion in developing Asia from 2016 to 2030, with a significant portion earmarked for climate-related projects (Ra & Li, 2018).

LITERATURE REVIEW

Bangladesh, situated in a low-lying delta with a significant portion of its land below sea level, is one of the most densely populated countries in the world (The World Bank, 2016). This geographical vulnerability makes Bangladesh highly susceptible to the consequences of climate change. The country experiences a range of climate risks, including rising sea levels, extreme weather events such as cyclones and floods, and changing rainfall patterns. These hazards pose significant challenges to Bangladesh's agricultural sector, which plays a crucial role in the country's economy and supports the livelihoods of millions of people. Moreover, the population density exacerbates the impact of climate risks on human well-being and socio-economic systems (Eckstein et al., 2021).

According to the "Long-Term Climate Risk Index," which ranks countries based on their exposure and vulnerability to climate-related hazards, Bangladesh ranks seventh globally (Eckstein et al., 2021). Over the past two decades, the country has witnessed numerous climate-related events, including cyclones, floods, and storm surges, which have resulted in loss of lives, displacement of communities, and extensive damage to infrastructure and ecosystems. These events not only have immediate humanitarian consequences but also have long-term economic implications for the country and its neighbors (Chowdhury et al., 2022).

Neighboring countries, including India, Myanmar, Nepal, Pakistan, Thailand, the Philippines, and Vietnam, also face similar climate risks due to their geographical proximity and shared vulnerability. Climate change poses additional challenges for these countries, including agricultural disruptions, water scarcity, increased disease prevalence, and the risk of climate-induced migration. The Intergovernmental Panel on Climate Change (IPCC) identifies uncontrolled urbanization and climate-induced migration as key factors contributing to the climate change threat in Bangladesh and the region (Hasan & Macdonald, 2021).

Efforts to address climate risks in these countries require collective action, information sharing, and the implementation of adaptive measures to mitigate the impacts of climate change. As a result, central banks and financial regulators, such as Bangladesh Bank, are increasingly recognizing the need to incorporate climate risks into their policy frameworks and support green financing initiatives to promote sustainable development and enhance resilience to climate change (Chowdhury et al., 2023).

Despite impressive economic growth, Bangladesh remains vulnerable to the impacts of climate change. The COVID-19 pandemic further highlighted the country's economic vulnerabilities, leading to a contraction in various sectors, including manufacturing, agriculture, and services. However, Bangladesh is now on the path to recovery and is expected to improve rapidly (The Ministry of Finance, 2021).

Bangladesh has set ambitious goals to achieve middle-income country status and accelerate its socio-economic development. This requires significant social, economic, and technological transformations, driven by investments in infrastructure, industry, and human capital. However, rapid industrialization and development can contribute to environmental degradation and exacerbate the impacts of climate change (Chowdhury, 2022).

Climate change has already caused significant economic losses in Bangladesh and other vulnerable countries. Over the past two decades, Bangladesh has experienced substantial financial losses equivalent to 37% of its GDP per unit, primarily attributed to climate-related events (Global Climate Risk Index, 2021). The impacts of climate change, including crop failures, infrastructure damage, and disruptions to supply chains, have direct implications for the country's economic stability and development prospects.

Climate risks not only impose direct costs on countries but also create an infrastructure gap in developing Asia. A study estimated that between 2016 and 2030, there will be an infrastructure investment gap of USD 26.2 trillion in developing Asia, of which a significant portion will be required for climate change mitigation and adaptation (Ra & Li, 2018). Bridging this infrastructure gap and building climate resilience will require substantial investments in green infrastructure, renewable energy, climate-smart agriculture, and resilient urban planning.

In 2015, Bangladesh Bank renamed its Green Banking and CSR unit as the Sustainable Finance Department to align with the global focus on sustainability and social inclusion. In December 2020, the department issued a comprehensive Sustainable Finance Policy, aligned with the United Nations Sustainable Development Goals (SDGs) and other national and international strategies. This policy has guided banks and financial institutions in addressing environmental, social, and governance (ESG) issues in their portfolios and credit management. As a result, all banks and financial institutions have established their Sustainable Finance Units (Chowdhury and Humaira, 2023).

The government of Bangladesh, along with other stakeholders such as the Ministry of Finance, Ministry of Environment, Forest, and Climate Change, Ministry of Commerce, and Ministry of Industries, plays an active role in promoting sustainable finance. The stakeholders provide macro-level suggestions and support the Sustainable Finance Department in developing policies and guidelines. Stakeholders include the Chittagong Stock Exchange, Dhaka Stock Exchange, Bangladesh Association of Banks, Sustainable and Renewable Energy Development Authority, Bangladesh Institute of Bank Management, and the National Security Board and Security Exchange Commission (Chowdhury, 2023).

Ehlers et al. (2020) found no clear evidence that issuing green bonds leads to a reduction in carbon intensities at the firm level over time. Their findings indicated that the impact of green bonds depends on the types of firms involved. While financial firms, particularly banks, are the least carbon-intensive, their investments are heavily concentrated in carbon-intensive industries. This suggests that although green bonds are being issued, the investments of financial firms may not necessarily contribute to carbon reduction efforts.

Another study by Delis et al. (2018) examined the lending practices of banks towards carbon-intensive, particularly fossil fuel, firms. Their findings showed that banks do not significantly increase loan spreads for fossil fuel firms. However, they found evidence that after the signing of the 2015 Paris Agreement, banks started raising loan spreads for fossil fuel firms that are highly vulnerable to climate policy risks. This suggests that the awareness of climate-related risks and international climate change initiatives may influence lending practices towards carbon-intensive industries.

Furthermore, Reghezza et al. (2021) documented a decrease in loan shares to polluting firms by European banks after the signing of the 2015 Paris Agreement. This indicates a shift in the banks' lending practices to reduce exposure to polluting industries.

In terms of sustainable investing, Elmalt et al. (2021) found weak evidence that higher environmental, social, and governance (ESG) investments lead to a reduction in emissions growth for investor-owned firms. Their results suggest that ESG investment does not necessarily translate into lower carbon footprints for companies.

Bolton and Kacperczyk (2020) proposed that increasing the cost of equity for polluting firms could be an alternative to carbon pricing for environmentally-minded investors. De Hass et al. (2021) examined the impact of credit constraints on green investments by firms. They found that credit-constrained firms are less likely to engage in green investment, but better green management reduces emissions. This suggests that providing easier access to credit and improving green management practices can facilitate green investments and reduce emissions.

Several central banks in advanced countries have conducted stress tests to assess the impact of climate change on their financial systems. The findings from these stress tests reveal the exposure of banks and insurers to physical and transition risks related to climate change (Chowdhury and Khan, 2023).

IMPORTANCE OF THE STUDY

The importance of this study lies in evaluating the green financing initiatives implemented by Bangladesh Bank. It is crucial to assess the effectiveness of these initiatives in addressing climate risks and promoting sustainable development. Understanding the impact and challenges associated with green financing can inform policymakers, financial institutions, and stakeholders on how to further enhance and refine these initiatives. This study contributes to the existing literature on green finance in Bangladesh and provides insights for other developing countries facing similar challenges.

STATEMENT OF THE PROBLEM

The problem addressed in this study is the limited access to and effectiveness of green financing in Bangladesh. Despite the implementation of various initiatives by Bangladesh Bank, there are obstacles preventing the seamless integration of sustainable development practices into the financial sector. These obstacles include limited awareness among clients, insufficient incentives for financial institutions, and the need for stronger regulations. This study aims to identify and evaluate these challenges and provide recommendations for improving green financing practices.

OBJECTIVES OF THIS STUDY

The objectives of this study are as follows:

- Assess the effectiveness of green financing initiatives implemented by Bangladesh Bank.
- Identify and analyze the challenges associated with green financing in Bangladesh.
- Evaluate the impact of green financing on addressing climate risks and promoting sustainable development.
- Provide recommendations for enhancing the effectiveness and accessibility of green financing in Bangladesh.

DEVELOPMENT OF HYPOTHESES

The following hypotheses will be tested in this study:

H1: The green financing initiatives implemented by Bangladesh Bank have positively contributed to addressing climate risks and promoting sustainable development.

H2: The limited access to green financing in Bangladesh is primarily due to the lack of awareness and incentives among clients and financial institutions.

H3: Stronger regulations, incentives, and collaboration with international organizations can improve the effectiveness of green financing in Bangladesh.

RESEARCH METHODOLOGY

This study will employ a mixed-methods research approach. It will involve quantitative analysis of data collected from financial institutions and clients using surveys and interviews. Additionally, qualitative analysis will be conducted through a comprehensive review of existing literature and policy documents. The data will be analyzed using appropriate statistical methods and qualitative content analysis.

DISCUSSION

Bangladesh has made commendable progress in the field of green and sustainable financing, positioning itself in the "Advancing" sub-stage of the "Implementation" stage according to the Sustainable Banking and Finance Network (SBFN) Progression Matrix. This places it alongside Vietnam, while China and Indonesia are in the advanced "Consolidating" stage among Asian countries (SBFN, 2022). The success of Bangladesh's green financing policies and guidelines has been recognized globally in the Reserve Bank of India (RBI) Bulletin, indicating its positive impact and relevance in the region.

However, despite the impressive policies and frameworks in place, the banking sector in Bangladesh still faces risks and vulnerabilities. Challenges such as non-performing loans, inadequate credit information, poor governance, lengthy legal procedures, and financial scams persist (Khairunnessa, Vazquez-Brust, & Yakovleva, 2021). The COVID-19 pandemic has further exacerbated these challenges, impacting the financial system and the performance of green financing schemes. To address these issues, Bangladesh Bank needs to prioritize strategies for accelerating green growth and ensure effective implementation of sustainable finance measures.

One significant bottleneck in the system is the mobilization of funds by banks and financial institutions to potential investors. Intermediary organizations play a crucial role in connecting green projects with appropriate funding. Strengthening the coordination between intermediaries and Bangladesh Bank is essential to identify and mobilize green projects and ensure their proper utilization. The establishment of a Sustainable Financing Forum, involving government authorities, banks, financial institutions, intermediaries, and potential borrowers, could facilitate collaboration and knowledge sharing, leading to increased investment in green projects.

TABLE 1: GREEN FINANCE DISBURSEMENTS IN BANGLADESH

Year	Total Disbursements (BDT Billion)	Share of Total Bank Advances (%)**
2011	0.2	0.01
2012	0.72	0.03
2013	0.95	0.04
2014	1.28	0.05
2015	2.70	0.10
2016	15.64	0.57
2017	20.34	0.74
2018	22.28	0.81
2019	25.03	0.89
2020	33.4	1.19
2021	40.43	1.45
2022	52.27	1.89

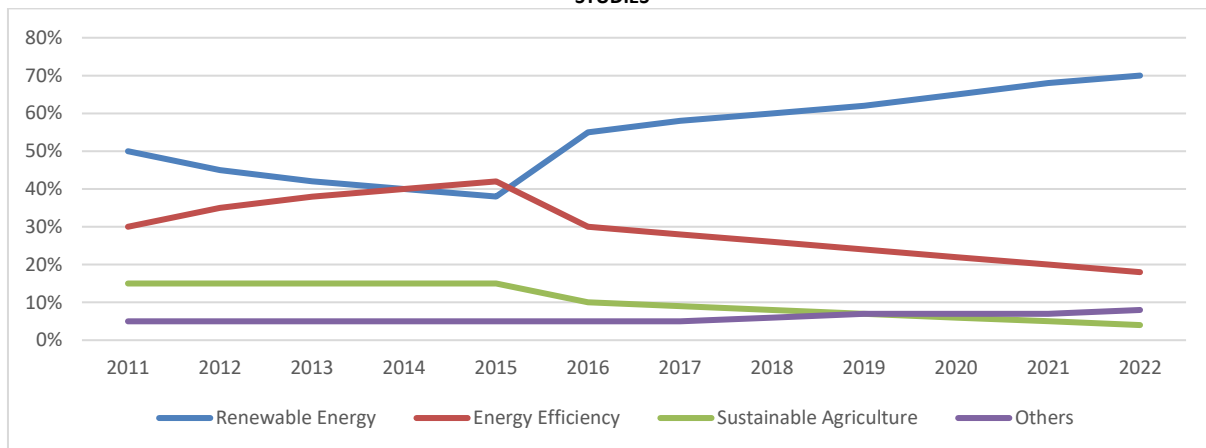
Source: Bangladesh Bank and Bangladesh Institute of Development Studies

The historical data presented in Table 1 illustrates a gradual yet significant growth in green finance disbursements in Bangladesh. Initially, in 2011, the disbursements were minimal, barely making an impact. However, as the years progressed, a remarkable shift occurred. By 2022, green finance had expanded nearly fourfold, accounting for almost 2% of total bank advances—a notable increase from its initial share of merely 0.01%. This upward trend signifies Bangladesh's increasing dedication to mitigating climate risks and fostering a greener economy.

It is important to acknowledge that this growth has not occurred without its challenges. While the share of green finance in total bank advances has been steadily rising, it still falls short of the recommended 5% benchmark. Moreover, there are concerns regarding limited access to finance, particularly for smaller projects and rural areas. Despite these obstacles, the consistent surge in disbursements indicates that Bangladesh is heading in the right direction, nurturing its green finance initiatives into a promising future.

To gain deeper insights into the efficacy of existing green financing measures and identify areas for improvement, it is beneficial to focus on sector-specific breakdowns and project distribution.

FIGURE 1: SECTOR-WISE BREAKDOWN OF GREEN FINANCE DISBURSEMENTS. SOURCE: BANGLADESH BANK AND BANGLADESH INSTITUTE OF DEVELOPMENT STUDIES



This analysis can offer a comprehensive understanding of how effective the current initiatives have been and highlight potential areas for enhancement. As Bangladesh continues its journey towards addressing climate change concerns, it is crucial to maximize the potential of green finance, ensuring it becomes a robust, inclusive mechanism that propels the nation towards a sustainable future. Figure 1 depicts a sector-wise breakdown of green finance disbursements in Bangladesh from 2011 to 2022. The data reveals significant trends in sector allocations over the years. The percentage of disbursements for renewable energy projects consistently increases, starting at 50% in 2011 and reaching a peak of 70% in 2022. This highlights a strong emphasis on renewable energy initiatives in the country. Energy efficiency projects also see steady growth, with disbursements ranging from 30% in 2011 to 18% in 2022. Sustainable agriculture projects maintain a relatively stable allocation of 15%, indicating consistent investment in this sector. The "Others" category, representing a variety of sectors, demonstrates consistent disbursements at 5%, albeit with slight increases to 6% in 2018 and 8% in 2022. This sector-wise breakdown offers valuable insights into the distribution of green finance and informs an analysis of the effectiveness and priorities in Bangladesh's green financing efforts (Ahmad et al., 2020)

TABLE 2: NUMBER AND AVERAGE LOAN SIZE OF GREEN PROJECTS FINANCED

Year	Number of Green Projects	Average Loan Size (BDT Million)
2011	12	16.67
2012	35	20.57
2013	51	18.63
2014	72	17.78
2015	115	23.48
2016	287	54.41
2017	352	57.76
2018	405	55.05
2019	451	55.49
2020	528	63.22
2021	615	65.67
2022	735	71.05

Source: Bangladesh Bank and Bangladesh Institute of Development Studies

Table 2 provides a comprehensive overview of the number and average loan size of green projects financed in Bangladesh from 2011 to 2022. The data reveals significant trends and patterns in green project financing over the years. The number of green projects shows a remarkable increase, starting at 12 in 2011 and steadily rising to 735 in 2022. This indicates a growing interest and commitment towards green initiatives in the country. Additionally, the average loan size for these projects also displays a consistent upward trend. Beginning at BDT 16.67 million in 2011, the average loan size gradually increases to BDT 71.05 million in 2022. This suggests a willingness to provide substantial financial support for larger-scale green projects. These findings reflect a positive evolution in the financing landscape, demonstrating a growing capacity to fund and support environment-friendly initiatives in Bangladesh. The information presented in this table serves as a valuable indicator of the progress and effectiveness of green finance efforts in the country (Bikker and Spierdijk, 2008).

Incentivizing banks and financial institutions to support green projects, specific measures should be put in place. Foreign banks operating in Bangladesh, such as HSBC and Standard Chartered Bank, follow stricter global policies and guidelines, making their financing activities more robust and aligned with the targets set by Bangladesh Bank. Marketing these incentives effectively to potential borrowers is crucial to attract more investment in green projects and foster sustainable development.

The development of the capital market for green bonds in Bangladesh is still in its early stages. While green bonds hold promise, research suggests that other factors, such as firm-level green ratings, may have a more significant impact on transitioning to a low-carbon economy. Therefore, attention should be given to identifying climate-resilient infrastructure projects and exploring climate finance initiatives that can contribute to enhancing the country's sustainable development goals.

To strengthen its international connections, Bangladesh Bank should study standardized institutional frameworks and practices implemented by other countries and explore partnerships and associations that can enhance the country's sustainable finance framework. Learning from global best practices and collaborating with international institutions can provide valuable insights and guidance for further enhancing green financing initiatives in Bangladesh.

It is worth considering the integration of digital currency and the adoption of polymer banknotes, as done by other central banks, to contribute to environmental sustainability and ensure efficient monitoring of financial systems. These technological advancements can help reduce the environmental footprint associated with traditional currency production and circulation, while also enhancing the efficiency and transparency of financial transactions (Bose et al., 2012).

While Bangladesh has made commendable progress in the field of green financing, there are challenges and areas for improvement. Strengthening coordination, incentivizing financial institutions, developing the capital market for green bonds, and studying global best practices can further enhance Bangladesh Bank's efforts in promoting sustainable finance and addressing climate risks. By prioritizing these strategies and capitalizing on opportunities for innovation and collaboration, Bangladesh can continue driving its transition towards a low-carbon, climate-resilient economy.

POLICY FORMULATIONS

Regulatory Authority: Strengthen regulations for green financing and establish clear criteria for identifying and categorizing green projects. Implement reporting requirements and auditing mechanisms to monitor compliance.

Financial Institutions: Introduce incentives like preferential interest rates and tax benefits for green loans and investments. Enhance capacity building programs for staff and develop specialized loan products for different sectors.

Clients: Raise awareness through targeted marketing campaigns, financial literacy programs, and workshops. Provide support for clients in preparing and implementing green project proposals.

Tax Authority: Offer tax incentives and establish clear guidelines for tax deductions or favorable treatment for green investments.

Social Organizations and NGOs: Collaborate to raise awareness, monitor policy implementation, and mobilize funding for community-led green projects.

Other Relevant Stakeholders: Foster collaboration between industry associations, research institutions, academia, and international organizations. Develop public-private partnerships and monitor policy effectiveness through regular evaluation.

CONCLUSION

In recent years, central banks across the globe have recognized the importance of addressing climate change and its potential impact on the stability of the banking sector. The "greening" of monetary policy, which allows central banks to prioritize green firms and sustainability, is a crucial step towards achieving sustainable economic growth. This chapter has provided a comprehensive analysis of the green financing policies implemented by Bangladesh Bank; the central bank of a country highly vulnerable to climate change. Several key takeaways emerge from this analysis. Firstly, the growing concern of non-performing loans and poor governance indicates the potential unpreparedness of Bangladeshi banks and insurers in dealing with the financial risks associated with climate change. To assess the banks' vulnerability to climate-related risks, conducting climate stress tests can provide valuable insights and help prepare for potential financial fallout. Secondly, while Bangladesh Bank has established comprehensive green financing policies, their effectiveness depends on banks and financial institutions effectively mobilizing funds for green projects. Intermediary organizations play a crucial role in connecting green projects with appropriate funding sources. Collaborating with organizations such as IDCOL and NGOs can facilitate the financing of green projects and ensure their proper implementation. Thirdly, the direct and indirect benefits of green loans are evident. Local banks can learn from foreign banks about incentivizing green loans in the most efficient manner. By following the practices of foreign banks, local banks can effectively promote and support green initiatives in the country. Lastly, it is essential for Bangladesh Bank to align its green policies with a focus on strengthening climate preparedness, adaptation, and mitigation activities. Initiatives such as climate finance should be given careful consideration to ensure adequate funding and support for climate-resilient projects.

LIMITATIONS

There are certain limitations to this study. Firstly, the sample size for surveys and interviews may be limited, which may affect the generalization of findings. Secondly, the study may face challenges in accessing accurate and comprehensive data on the impact of green financing initiatives. Lastly, time and resource constraints may limit the depth of analysis in some areas.

SCOPE FOR FUTURE RESEARCH

This study opens up several avenues for future research. Further research can explore the long-term impacts of green financing on climate resilience and sustainable development in Bangladesh. Additionally, more in-depth investigations can be conducted to identify specific barriers and facilitators of green financing implementation. Comparative studies across different countries can also provide valuable insights into best practices and lessons learned in promoting green finance.

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