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e-ISSN: 3048-815X

Impact Factor: 6.262

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Sustainability in Banking: Examining Green Finance and its Role in the Future of the Industry

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Article History:

Received: 15 February, 2025

Revised: 07 March, 2025

Accepted: 13 March, 2025

Published: 17 March, 2025

Keywords:

Green Finance,
Environmental Risks,
Sustainable Practices,
Regulatory Framework, Social
Governance, Green Bonds,
Competitive Advantage.

DOI:10.62823/ExRe/2025/02/01.24

Abstract: As the global financial sector is currently experiencing a transformation to the side of the planet, namely towards sustainable and environmentally friendly areas, it is moving to a more sustainable and ecologically friendly direction. As one of the critical factors of this process, green finance is viewed as a crucial factor in the banking sector. Their main instruments have become, among other things, they have become the key drivers. Green finance investments and financial products are those that make a positive contribution to environmental sustainability, thus inducing a decrease in pollution and a fostered environmental theme. This paper presents the issue of green finance in the bank, detailing its results, potential, and difficulties. We will look at the ways in which green finance projects have been adopted in the financial sector as well as the importance of SD in this case. The study further considers the position of banking institutions in advancing the green economy by regulation, investment strategies, and emerging trends. Also, we will be exploring the obstacles connected to such a transformation, which include such difficulties as the complexity of measuring environmental impacts and the necessity to produce real green innovations. Finally, the paper with the benefits of green finance for financial institutions, the environment, and the society will be studied which may unlock the way for the future of the industry and a prospect to make benefits in a long-term perspective.

Introduction

Sustainability in banking is no longer just a trend; it is becoming a core principle for financial institutions worldwide. In the wake of climate change and environmental problems, the financial sector plays a vital part in creating a sustainable future. Banking, usually saved by means of sustainability, is more intent on the environment, social, and governance (ESG) criteria to examine the effect of their investments and the lending they do.

Green finance is the chief player in this transition, which involves the employment of financial products and services devised to back projects and businesses that incorporate environmental protection. Green finance exploits many financial instruments, like green bonds, green loans, and ESG-focused investment funds. Through financing projects that are directed towards decreasing adverse

environmental impacts, increasing resource efficiency, and curbing climate change, green finance is seen as the main push of the green economy.

The banking industry, operating through its capital allocation and investment decision-making, emerges as a crucial mover of financial development. Banks are incorporating lean processes like green finance into their operations as part of the environmental pressure and are seeking the fulfilment of global climate objectives, e.g. Paris Agreement. Nevertheless, a combination of green finance leads to both advantages and drawbacks for the banking sector.

Banks play a major role in the endorsement of environmental projects being an integral part of universal endeavours towards the achievements of the SDGs by UN. Primarily, the financial market is one of the dominant sources of funding, the requirement for a sustainable financial system has never been more urgent also. According to the UN Environment Programme (UNEP), the world will require an estimated \$6 trillion per year to meet global sustainability and climate goals. Naturally, it is evident that financial institutions and green finance will be responsible for the bulk of the investment necessary for clean energy and sustainable development.

Therefore, the phase-over to environment-friendly banks cannot be an unmitigated success story either. Actually, the implementation of green finance instruments call for a comprehensive transition from the traditional banking model that has been characterized by the dominant and long-standing high carbon and related fossil fuel sectors. Besides, managing the issues associated with evaluating environmental impact, avoiding greenwashing, and engineering green projects that are scalable is more than just a theoretical thing for financial institutions. Notwithstanding these difficulties, some of green finance's incentives which include the long-term profitability, risk management, and reputation improvements make it the most demanded field for the banks.

This paper aims to focus on and examine the role of green finance in the future of banking. It delves into how green finance is transforming banking operations, the benefits it offers to financial institutions, the challenges in its adoption, and the future potential of the sector. The following sections will explore these topics in detail, offering an in-depth analysis of the growing intersection between sustainability and the banking industry.

The Concept of Green Finance

Green finance is an evolving field that refers to financial activities and services specifically directed towards supporting environmental sustainability. This notion encompasses a wide array of investment initiatives aimed at fostering renewable energy, promoting sustainable agriculture, and funding other environmentally friendly projects.

Definition of Green Finance

At its core, **green finance** can be defined as any financial product or service that intentionally delivers positive environmental impacts. These include, but are not limited to, funding for projects that reduce carbon footprints, enhance energy efficiency, and promote conservation efforts. As the global awareness of environmental issues grows, green finance has emerged as a critical component in the fight against climate change and for sustainable development.

Differentiating Green Finance from Traditional Finance

While traditional finance typically focuses on monetary returns without regard for environmental impacts, green finance integrates sustainability into its core objectives. Below are some distinctions between the two:

Aspect	Traditional Finance	Green Finance
Focus	Profit maximization	Profit and positive environmental impact
Investment Criteria	Primarily financial metrics	Environmental, social, and governance criteria
Risk Assessment	Financial risk only	Includes environmental and social risks
Stakeholder Engagement	Limited to investors	Broad engagement with communities, ecosystems, and governments

The approach in green finance emphasizes a holistic view of risk and return, incorporating environmental considerations, thus appealing to a growing demographic of socially conscious investors.

Components of Green Finance

Green finance comprises several key components, including, but not limited to, the following:

- **Investments in Renewable Energy:** This includes financing for solar, wind, geothermal, and hydroelectric power projects. Renewable energy investment is crucial for reducing dependence on fossil fuels and minimizing greenhouse gas emissions.
- **Sustainable Agriculture:** Financial resources directed toward sustainable farming practices can enhance food security while protecting natural ecosystems. This includes financing for organic farming, agroforestry, and water conservation initiatives.
- **Environmentally-Friendly Projects:** Such projects can encompass a multitude of initiatives, including eco-friendly housing, sustainable urban development, and infrastructure projects that adapt to climate change impacts.

Overview of Green Finance

Green finance involves financial services that support sustainable, environmentally friendly activities. This sector encompasses a variety of financial products, such as green bonds, sustainable investment funds, and environmental risk management strategies. The implications of green finance for the banking industry are profound. It not only presents new business opportunities for banks but also enhances their reputation and stakeholder relationships.

Examples of successful green finance initiatives offer insight into its potential benefits:

- **Green Bonds:** These are fixed-income instruments specifically earmarked to raise funds for climate and environmental projects. According to the Climate Bonds Initiative, the green bond market achieved a record issuance of over **\$270 billion** in 2020, illustrating the growing appetite for financing sustainable projects.
- **Sustainable Investment Funds:** Many banks have launched dedicated funds investing in companies that meet rigorous sustainability criteria. For instance, the Global Impact Investing Network (GIIN) reported a significant increase in impact investing assets under management to over **\$715 billion** globally, signalling the considerable demand for investment options that have measurable positive outcomes.

Benefits of Green Finance in Banking

- **Attracting a New Generation of Investors**

One of the most significant advantages of green finance is its ability to attract a new generation of investors. Millennials and Gen Z are increasingly prioritizing sustainability in their investment choices, creating a demand for green financial products. By incorporating green finance into their offerings, banks can tap into this growing market and align themselves with the values of younger, socially-conscious consumers.

The rise of sustainable investment platforms, such as ESG funds and green bonds, has made it easier for investors to direct their capital toward environmentally friendly projects. The increased demand for such products has created new opportunities for banks to offer green investment vehicles that attract socially-conscious investors. This trend is expected to continue, as more individuals and institutions incorporate sustainability into their investment strategies.

- **Effective Risk Assessment**

Integrating green finance into banking practices allows institutions to better assess and manage environmental risks that may impact their portfolios. Financial institutions are increasingly exposed to various environmental factors, including climate change, resource scarcity, and regulatory changes. By adopting a proactive stance in understanding these risks, banks can implement strategies to mitigate potential financial losses. Key aspects include:

- **Environmental Risk Evaluation:** Banks can develop models to evaluate the potential impact of environmental risks on their loan portfolios and investments. This evaluation helps in identifying vulnerable sectors and consequently informing lending decisions.
- **Diversification of Investment Portfolios:** Green finance encourages investments in sustainable projects, which can help diversify portfolio risk. Renewable energy, green infrastructure, and other sustainable projects are often less vulnerable to traditional economic fluctuations, providing a buffer against market volatility.

- **Long-term Financial Stability**

By addressing environmental risks through green finance initiatives, banks contribute to their long-term financial stability. Sustainable investments not only fulfil ethical commitments but can also yield competitive returns over time, thereby increasing resilience against downturns in conventional markets.

Reputation Enhancement

- **Building a Positive Brand Image**

Embracing green finance significantly enhances a bank's reputation. In an era where corporate social responsibility (CSR) is becoming increasingly important, stakeholders—including consumers, investors, and regulators—are more likely to support institutions with robust sustainability practices. Key benefits include:

- **Increased Trust:** By committing to green initiatives, banks foster greater trust among stakeholders. Transparency in the environmental impact of investments fosters confidence and aligns with the values of socially conscious consumers.
- **Attracting Investment:** A strong commitment to sustainability often attracts socially responsible investors. Many funds are specifically designed to include only those institutions that meet rigorous ESG criteria, providing banks with access to capital that benefits both the institution and environmentally beneficial projects.

- **Differentiation in the Market**

With competition intensifying in the banking sector, sustainability can serve as a unique selling proposition. Institutions that prioritize green finance can distinguish themselves and appeal to a growing demographic of eco-conscious consumers.

Customer Loyalty

- **Meeting Changing Consumer Expectations**

As consumer awareness regarding climate change and sustainability increases, banks that integrate green finance into their operations stand to gain significant customer loyalty. Key considerations include:

- **Alignment with Consumer Values:** A study from Accenture found that **67%** of millennials are willing to switch banks for institutions that demonstrate a commitment to sustainability. By aligning products and services with these values, banks can enhance customer retention.
- **Engagement through Sustainable Products:** Offering green financial products, such as green bonds or eco-friendly mortgages, allows banks to actively engage customers who are interested in supporting sustainable initiatives. This engagement fosters a deeper emotional connection to the institution.

Compliance with Regulations

- **Navigating Regulatory Landscapes**

As governments and regulatory bodies worldwide introduce stringent environmental regulations, banks that embrace green finance are better positioned to comply with evolving legal standards. The benefits associated with regulatory compliance include:

- **Reduction of Potential Fines:** By actively incorporating sustainability into their operations, banks can better navigate regulatory requirements and reduce the risk of non-compliance fines and penalties.
- **Improved Access to Incentives:** Many governments offer incentives for banks that engage in sustainable practices, including tax benefits and grants for green investments. By being compliant, institutions can tap into these financial resources, yielding additional advantages.

Long-term Viability and Competitive Advantage

- **Positioning for the Future**

Incorporating green finance is not just about addressing current risks or gaining immediate benefits; it is also about positioning banks for long-term viability. As the global economy trends towards sustainability, institutions that adopt green finance will likely find themselves ahead of the curve. Benefits include:

- **Future-proofing Operations:** By recognizing the importance of sustainability, banks can future-proof their business models and remain relevant in an increasingly eco-conscious market.
- **Leadership within Emerging Markets:** As demand for green finance and sustainable investment grows, banks that are early adopters will be in a prime position to lead the transition and innovation within their markets. The first movers will often capture greater market share and customer loyalty.

- **Government Support and Incentives**

Governments around the world are providing incentives for businesses that adopt sustainable practices, including tax breaks, subsidies, and favourable regulations. Financial institutions that invest in green projects may benefit from these government programs, which can offset the costs associated with transitioning to more sustainable business models. Additionally, governments may be more inclined to support the financial institutions that play a key role in financing the transition to a green economy. For example, in some countries, green bonds are exempt from certain taxes, providing additional incentives for banks to issue them. Similarly, governments may offer low-interest loans or grants to support green projects, reducing the financial burden on banks that choose to invest in sustainability.

- **Improved Financial Performance**

Research has shown that companies with strong ESG performance often outperform their peers in terms of financial returns. By prioritizing sustainability, banks may experience improved profitability, as green finance products often attract premium investors who are willing to accept lower returns for the positive environmental impact. Moreover, companies with strong sustainability practices may be less likely to face regulatory fines, reputational damage, or environmental liabilities, further enhancing their financial stability.

The growing popularity of green finance products also presents an opportunity for banks to diversify their revenue streams. As the market for green bonds and sustainable loans continues to expand, banks that are early adopters of these products can capture a larger share of the market and generate additional revenue.

- **Regulatory Frameworks Supporting Green Finance**

The growth of green finance is supported by a variety of regulatory frameworks and initiatives at both international and national levels. These frameworks are essential for establishing standards and fostering public confidence in sustainable financial practices. Notable regulations and initiatives include:

- **The European Union's Green Deal:** This ambitious policy aims to transform the EU into a sustainable economy, promoting investments that help achieve climate-neutrality by 2050.
- **Task Force on Climate-related Financial Disclosures (TCFD):** This initiative encourages companies to disclose climate-related financial risks and opportunities, supporting the alignment of financial activities with sustainability goals.
- **Green Bond Principles:** Developed by the International Capital Market Association (ICMA), these voluntary guidelines help issuers and investors in the green bond market to make informed decisions and improve transparency.

- **The Role of Financial Institutions in Green Finance**

Banks and financial institutions are vital players in the green finance landscape. Their roles include:

- **Mobilizing Capital:** Financial institutions are responsible for channelling funds into sustainable projects through loans, investments, and underwriting green bonds.
- **Risk Management:** As stewards of capital, banks are increasingly tasked with assessing environmental risks in their portfolios. By doing so, they can protect investors' interests while also contributing to sustainable development.
- **Innovation:** Financial institutions are continually developing new green financial products. Examples include green mortgages, which offer reduced rates for environmentally efficient homes, and sustainability-linked loans, where the interest rate is tied to a borrower's sustainability performance.

- **Key Players Leading the Green Finance Trend**

Several banks and financial institutions are at the forefront of promoting green finance through innovative products and services.

Institution	Initiative	Focus Area
Goldman Sachs	Sustainable Finance Group	Green bonds and sustainable investments
HSBC	Green Loan Initiative	Climate projects funding
Bank of America	Environmental Business Strategy	Financing renewable energy
Deutsche Bank	Green Bond Portfolio	Targeted investments in sustainability
Citigroup	Sustainable Initiatives	Renewable energy financing

- **Regional Leaders in Green Finance**

While green finance is a global phenomenon, certain regions are particularly leading the charge:

- **Europe:** The European Union has implemented robust frameworks supporting sustainable finance, making it a global leader in green bond issuance and ESG investment.
- **North America:** The United States and Canada are witnessing significant growth in green ventures, particularly in technology-driven sustainable solutions. Major US banks are adopting ESG criteria for lending purposes.
- **Asia-Pacific:** Countries such as China and Japan are rapidly advancing in green bond markets and sustainable investment funds, bolstered by national policies aimed at achieving carbon neutrality.

Challenges in Green Finance Adoption

- **Lack of Standardization and Transparency**

One of the primary challenges in the green finance sector is the lack of universally accepted standards and frameworks. The absence of clear definitions for what constitutes “green” or “sustainable” financial products leads to a high level of ambiguity. Without standardized metrics, investors and institutions face difficulty assessing the true environmental impact of their investments. This lack of transparency can undermine confidence in green finance products, hindering their widespread adoption.

The absence of consistent regulations across borders further complicates the integration of green finance into global banking practices. Different jurisdictions may have different criteria for evaluating sustainability, which poses a challenge for multinational banks trying to align their operations with international environmental goals. Regulatory bodies and financial institutions are working toward developing unified guidelines, but progress remains slow.

While there have been significant steps taken to improve transparency—such as the establishment of the Green Bond Principles and the Task Force on Climate-related Financial Disclosures (TCFD)—the industry still faces considerable inconsistency. Financial products labelled as “green” often differ significantly in terms of eligibility criteria, measurement methods, and reporting standards.

For example, green bonds—one of the most prominent green finance instruments—lack a clear global taxonomy. Different jurisdictions have adopted varying criteria to define what constitutes a green bond, creating confusion among investors. The absence of a unified standard also poses a risk of “greenwashing,” where financial products are marketed as environmentally sustainable without meeting substantive criteria. This undermines investor confidence in green finance products and hampers the growth of this sector.

- **Measurement and Reporting Difficulties**

The challenge of measuring the environmental impact of projects and investments is another key barrier to the development of green finance. Unlike traditional financial metrics, environmental impacts are difficult to quantify, making it challenging to evaluate the true sustainability of a project. This issue is compounded by the fact that many environmental benefits may only become visible in the long term.

Banks often struggle to implement consistent reporting mechanisms for green finance products. While the financial sector has made strides in integrating ESG metrics into reporting, green finance requires more detailed and specific disclosures about environmental performance. The Global Reporting Initiative (GRI) and the Sustainability Accounting Standards Board (SASB) have made strides toward standardizing ESG disclosures, but the industry still faces a fragmented reporting landscape.

The lack of standardized impact measurement frameworks means that investors may struggle to assess the actual environmental benefits of their investments. This can lead to hesitation in adopting green finance products and, in turn, limit the overall effectiveness of green finance in supporting sustainability.

- **Greenwashing Concerns**

Greenwashing is a significant concern in the green finance space. This refers to the practice of misleading stakeholders into believing that a financial product or investment is more environmentally sustainable than it actually is. As the demand for sustainable investment grows, some institutions may be tempted to label their products as “green” without meeting the necessary environmental standards or making meaningful contributions to sustainability.

There are growing calls for stronger regulation to address greenwashing. In the European Union, the Sustainable Finance Disclosure Regulation (SFDR) has been introduced to require financial institutions to disclose the sustainability risks and impacts of their products. Similarly, the TCFD has called for greater transparency in financial disclosures related to climate risk. However, enforcement remains a challenge, and stricter regulations are needed to ensure that green finance products truly meet sustainability goals.

- **Cost and Risk of Transition**

Adopting green finance models and transitioning toward sustainable banking practices can be costly for financial institutions. Many traditional banking operations rely on investments in industries that contribute to environmental degradation, such as fossil fuels. Shifting away from these sectors requires significant investment in new technologies, risk assessment models, and sustainable practices. Furthermore, green projects often entail higher upfront costs. Renewable energy projects, for example, can require significant capital investment in technology and infrastructure. Banks must also account for the long-term nature of green investments, which may take several years to generate returns. While the long-term benefits of green finance may be substantial, such as reduced risk exposure and enhanced corporate reputation, the short-term financial risks and costs of transition remain a major concern.

- **Skill Gaps and Expertise**

A lack of expertise in both environmental sustainability and green finance is another barrier to the sector's growth. Banks need professionals who are knowledgeable about the intricacies of environmental science, sustainability practices, and green financial products. Training employees in sustainability and green finance is a critical step for banks. Institutions that fail to invest in building the necessary expertise within their workforce may struggle to stay competitive in an increasingly green financial market. As the demand for green finance grows, the need for a skilled workforce that can navigate the complexities of sustainable investing will only increase.

The Future of Green Finance in Banking

As the financial industry navigates the evolving landscape of sustainability, green finance is emerging as a critical component of banking strategies. The future of green finance within the banking sector is shaped by several influential factors, including technological advancements, changing consumer preferences, and an evolving regulatory environment. This section speculates on potential developments in these areas and discusses strategies banks can employ to prepare for upcoming changes.

Technological Advancements

- **Fintech Innovations:** Financial technology (fintech) continues to disrupt traditional banking, harnessing tools that facilitate the growth of green finance. Key innovations include:
- **Digital Platforms for Green Investment:** Fintech platforms are increasingly emerging to target sustainable investments. For instance, some platforms allow retail investors to fund renewable energy projects directly, democratizing access to green financing.
- **Blockchain Technology:** Blockchain can enhance transparency and trust in green finance. By providing secure ledgers for tracking the use of funds and verifying the environmental impact of projects, banks can foster trust among stakeholders, enabling more significant investment in sustainable initiatives.
- **AI and Big Data:** Utilizing artificial intelligence and big data analytics allows banks to better assess environmental risks and opportunities. By analyzing vast datasets, banks can identify

high-impact projects and gain insights into sustainable practices, enabling more informed lending decisions.

- **Integration of Sustainability into Core Systems:** As operations become increasingly digitized, banks must develop systems that incorporate sustainability metrics seamlessly into core banking functions:
- **ESG Metrics in Decision-Making:** Financial institutions should embed environmental, social, and governance (ESG) criteria into their risk assessment frameworks and investment analysis tools to ensure sustainability is considered at every level.
- **Impact Measurement Tools:** Developing robust tools for measuring and reporting the impact of financed projects is essential. Methodologies should align with international standards, promoting consistency and transparency in sustainability reporting.
- **Shifts in Consumer Preferences:** Changing consumer behaviours are driving financial institutions to adapt their offerings to be more sustainable:
- **Increased Demand for Sustainable Products:** As public awareness of climate issues grows, consumers are actively seeking banking services that reflect their values. Banks can respond to these trends by:
- **Offering Green Financial Products:** Customers, particularly younger demographics, favour products such as green loans, eco-friendly mortgages, and sustainable investment funds. By aligning product offerings with consumer expectations, banks can build loyalty and capture market share.
- **Promoting Sustainable Practices:** Banks should engage customers in sustainability initiatives, such as tree-planting programs or renewable energy financing solutions, creating loyalty beyond traditional financial transactions.
- **Consumer Education and Awareness:** As consumers become more informed about sustainability issues, financial institutions must prioritize education regarding the available sustainable options:
- **Stakeholder Engagement Campaigns:** Banks can leverage educational campaigns to inform consumers about the benefits of green finance initiatives, enriching their understanding of sustainability and empowering them to make informed choices.
- **Partnerships with NGOs and Environmental Organizations:** Collaborating with environmental non-profits can enhance banks' credibility in the sustainability space while helping educate communities about green finance opportunities.
- **Evolving Regulatory Landscapes:** The regulatory environment surrounding green finance is continually evolving, with governments worldwide taking actions to foster sustainable banking practices. Key regulatory developments that could impact the future of green finance include:
- **Strengthening of Sustainability Regulations:** As pressure mounts for the financial sector to address climate change, new directives are likely to emerge:
- **Stricter Disclosure Requirements:** Regulatory bodies may enforce enhanced reporting standards for ESG metrics, requiring banks to disclose their sustainability practices and impact more rigorously. This would compel banks to prioritize transparency and accountability in their operations.
- **Green Taxonomies:** Governments might introduce clearer definitions of what constitutes green activities through taxonomies. This transparency would help mitigate greenwashing by ensuring that only projects with legitimate sustainable practices receive green finance.

Incentives for Sustainable Practices

To encourage banks to adopt sustainable practices, regulatory bodies could implement a range of incentives:

- **Financial Incentives:** Governments could offer tax breaks or low-interest loans for banks that meet green finance targets or for sustainability-minded investments. Increased financial support would create a more favourable landscape for sustainable banking practices.

- **Green Banking Certifications:** Regulatory frameworks may evolve to include certification systems for banks that implement effective green finance practices. Certifications could serve as trusted indicators for consumers seeking sustainable financial institutions.

Preparing for the Future

In anticipation of these developments, banks can undertake several specific actions to prepare for the future of green finance:

- **Developing a Comprehensive Sustainability Strategy:** Banks must cultivate a well-defined sustainability strategy that encompasses all aspects of their operations, including lending, investments, and risk management. This strategy should outline clear objectives and actionable steps for integrating green finance into their business models.
- **Investing in Talent and Training:** As banks adapt to the growing significance of green finance, investing in talent and expertise in sustainability becomes a priority:
- **Employee Training Programs:** Implementing regular training for employees on sustainability principles, green finance products, and risk assessment can empower banking professionals to make informed decisions in line with ESG criteria.
- **Attracting Sustainability Specialists:** Hiring experts with backgrounds in environmental science, sustainability, and finance will enrich banks' capabilities in evaluating and managing sustainable investments.
- **Building Strategic Partnerships:** Collaboration with stakeholders, including governments, NGOs, and other financial institutions, can amplify banks' efforts in promoting green finance:
- **Engaging in Industry Collaborations:** Participating in forums and grouped initiatives focused on sustainable finance enables banks to share knowledge, develop best practices, and contribute to a collective effort towards achieving sustainability goals.
- **Public-Private Partnerships:** Collaborations with government entities can enhance financial resources for sustainable projects, allowing banks to leverage public interest and funding to build more robust green finance initiatives.

Conclusion

Green finance is changing the way banks do business. It brings some challenges but also creates new options for financial institutions. As companies judge sustainability more and more, it is an excellent chance for banks to present themselves as the primary players along the transition process from a brown economy to a green one. While the obstacles include the lack of standardization, greenwashing and the cost of transition, the benefits acted by the green finance from appealing to the new investors and to mitigating the risk and building the good corporate reputation would be substantial. Green finance remains a crucial part of the future of the banking industry, where the drive for environmental sustainability gets more and more acute in the entire world.

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