



Assessing Green Banking Practices: A Comparative Study of SBI and ICICI Banks in India

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ABSTRACT

In the realm of sustainable finance, green banking has gained considerable attention for its potential to mitigate environmental risks and promote sustainable development. This progress seminar delves into the green banking practices of State Bank of India (SBI) and ICICI Bank, conducting a comparative study to analyze their respective approaches and achievements. By scrutinizing key performance indicators, policy frameworks, and implementation strategies, this research sheds light on the strengths and weaknesses of SBI and ICICI Bank in integrating environmental considerations into their banking operations.

Keywords: green banking, sustainable finance, environmental risk, SBI, ICICI Bank, India.

INTRODUCTION

The statement by Narendra Modi, Prime Minister of India, underscores significance of the Paris Agreement's outcome, emphasizing the victory of climate justice and the collective effort towards a greener future (Allen & Craig, addressing 2016). However, change entails substantial costs, with estimates projecting expenses to reach \$140-300 billion annually by 2030 and doubling 2050 potentially by Environment Programme, 2021). Financial institutions, including banks, face inherent risks due to climate change, with 70% of central banks and regulators recognizing the threat to financial stability (Donoghue, 2021). The importance of integrating

innovation and climate considerations into economic growth was underscored by the 2018 Nobel Prize in Economic Sciences, jointly awarded to William D. Nordhaus and Paul M. Romer. This recognition emphasized the need to consider environmental quality when designing economic policies (The Nobel Prize, 2018). In this context, the banking sector crucial role in promoting environmentally sustainable investments and reducing carbon footprints. Banks contribute to environmental degradation indirectly through their financing activities, necessitating a shift towards green banking practices (Javadi & Masum, 2021; Omar et al., 2021).



Green banking refers to adopting strategies and techniques to reduce external carbon emissions and internal carbon footprints. Banks can facilitate this transition by financing green technologies and pollution-reducing projects (Javadi & However, Masum, 2021). operations themselves may contribute to environmental pollution, exposing banks to climate-related risks. Transition risks associated with a shift to a low-carbon economy and regulatory risks stemming from government initiatives to combat climate change are among the challenges faced by banks (Javadi & Masum, 2021; Omar et al., 2021). In response to the escalating risks of climate change, regulators and policymakers have initiated measures to mitigate these risks. The Paris Agreement, signed in 2015, aims to limit global temperature rise and enhance the global response to climate change (United Framework Convention Nations Climate Change, 2015). Regulatory bodies in various countries, including the Bank of England, have introduced stress tests to climate-related banks' assess risks. Additionally, disclosure requirements mandate large companies, banks, and insurers to disclose climate-related risks in their financial reports (United Nations Framework Convention Climate on Change, 2015).

Transitioning to green banking is imperative to mitigate physical and financial risks associated with climate change. Banks must acknowledge their role in environmental degradation and adopt sustainable practices. Internally, banks are urged to use renewable energy sources and automation to reduce their environmental footprint (Bukhari et al., 2019). However, the adoption of green banking is still in its infancy in many

developing nations, presenting challenges for banks, regulators, and policymakers. the shift to green banking is essential to address climate change and promote sustainability in the banking sector. Regulatory initiatives and stakeholder pressure underscore the urgency of integrating environmental considerations into banking operations. By embracing green banking practices, banks can reputation. enhance their reduce environmental risks, and contribute to a sustainable future.

LITERATURE SURVEY

The literature green banking on encompasses a range of studies exploring various aspects of environmental sustainability, banking practices, and their implications. Ahmad et al. introduced the concept of an intranet system at the Bangladesh Bank, facilitating efficient communication and knowledge management among employees. initiative paved the way for the adoption of green banking practices within institution. Alexander (2014) delved into the systemic environmental risks faced by banking sector, policymakers to consider incorporating environmental considerations into financial regulations.

Abdullah Al Mamun and Masud Rana investigated the relationship (2020)between green finance and the profitability of commercial banks in Bangladesh. Their study revealed a positive correlation between green finance initiatives and bank profitability, indicating the potential economic benefits of environmentally sustainable practices. Similarly, Amirul et al. (2010) emphasized the importance of ethical banking, highlighting the growing demand for investments in



environmentally friendly and socially responsible projects.

Bimha et al. (2013) focused on South African banks' efforts to combat climate change through green banking initiatives. Their study underscored the need for a holistic approach to measuring carbon emissions and integrating climate policies into banking practices. Choudhury et al. (2013)examined the benefits and challenges of green banking Bangladesh, emphasizing the role of banks in promoting environmental awareness and sustainability.

Colby and Woodall (2008) explored the market potential for green financial services in the United States, highlighting the economic opportunities associated with environmentally friendly initiatives. Fernando and Fernando (2022) assessed green banking initiatives in Sri Lanka, noting the importance of incorporating environmental guidelines into banking operations to enhance sustainability.

Fayez Ahmad et al. (2013) conducted a study on green banking activities in Bangladesh, identifying economic, policy, and stakeholder-related factors influencing banks' adoption of green practices. Hossain et al. (2014) analyzed the impact of green banking on the performance of banks in Bangladesh, emphasizing the positive correlation between green initiatives and profitability.

(2019) developed et al. conceptual model to assess customer satisfaction with green banking initiatives, highlighting the importance of understanding customer preferences in promoting sustainable banking practices. Savu (2012) proposed various ecological projects for banks to undertake in partnership with environmental organizations, emphasizing the role of non-governmental organizations in promoting green banking.

Cabaron and Cabaron (2021) evaluated the sustainable banking practices of rural banks in the Philippines, emphasizing the need to enhance environmental awareness and promote sustainable practices within banking sector. These studies collectively contribute to our understanding of green banking practices their implications for financial institutions and the environment.

In the realm of banking, the adoption of green practices has emerged as a critical avenue for promoting sustainability and environmental addressing challenges. Kaufer (2011)shed light on the transformative potential of green banking by examining the case of Triodos Bank in the Netherlands, showcasing how valuebased banking principles can drive societal Through interviews change. observations, the study delineated Triodos' innovative product development process and its integration of environmental, social, and economic considerations.

Similarly, Nga Phan Thi Hangm (2022) analyzed the landscape of green banking in Vietnam, identifying key factors influencing its development and proposing policy recommendations. Employing advanced statistical methods, the study underscored the significance of state support policies, market demand, and organizational capacities in driving green banking initiatives. It emphasized the need for robust environmental risk management practices within banking operations.

On a global scale, Papestergiou (2011) explored the sustainability efforts of banks in Greece, employing the Jucken model to evaluate their performance. The study highlighted the multifaceted nature of sustainable development in banking,



encompassing financing practices, product innovation, and environmental stewardship. It underscored the pivotal role of corporate social responsibility in fostering sustainable banking practices.

Meanwhile, Rahimullah Miah et al. (2013) addressed the pressing issue of cybersecurity in green banking, particularly in the context of online transactions. Through field experiments and surveys, the study elucidated the challenges faced by banking networks in environmental risks while mitigating ensuring data security. It underscored the need for robust policy frameworks and technological safeguards to bolster green banking initiatives.

Schwanhausser (2008)delved consumer behaviors and preferences regarding green banking, highlighting the environmentally growing interest in friendly financial services. The study revealed significant opportunities financial institutions to attract environmentally conscious customers by offering paperless banking options and sustainable investment products.

In another vein, Steel (2008) conducted a comparative analysis of green initiatives different industries, including banking, energy/utilities, insurance, and government sectors. The study underscored levels the varying of commitment and challenges faced by banks embracing sustainability in practices. It emphasized the need for organizational awareness and budgetary allocations to drive meaningful change.

Moreover, Annadurai (2014) examined the landscape of green banking in India, focusing on initiatives undertaken by public and private sector banks. The study revealed a gap between customer awareness and bank offerings, highlighting

the need for government policies and financial incentives to promote green banking practices. It emphasized the role of communication and product innovation in fostering environmental sustainability within the banking sector.

PROPOSED CONFIGURATION

The comparative study of green banking practices in State Bank of India (SBI) and ICICI Bank in India reveals a nuanced landscape of environmental initiatives and sustainability efforts within the banking sector. Through an assessment of various dimensions such as policy frameworks, operational strategies, financial customer awareness, and products, this study aimed to shed light on the progress and challenges faced by these two major banks in integrating green banking practices into their operations. Both SBI and ICICI Bank have made significant strides in embracing green banking practices, albeit with varying degrees of implementation and impact. SBI, as a public sector bank, has taken pioneering steps in setting sustainable standards and promoting environmental stewardship. The bank has spearheaded initiatives such as green power projects, wind farm installations, and the adoption of eco-friendly technologies. On the other hand, ICICI Bank, a leading private sector bank, has also demonstrated a commitment to green banking through initiatives like online banking, mobile banking, and green credit cards.

One of the key findings of this study is the importance of robust policy frameworks and regulatory compliance in driving green banking practices. Both SBI and ICICI Bank have formulated internal policies and guidelines to promote environmental sustainability. SBI, being a public sector entity, is subject to stringent regulatory



oversight and has incorporated green banking principles into its corporate governance framework. Similarly, ICICI Bank has aligned its policies with international standards such as the Equator Principles and has adopted a proactive approach to environmental risk management.

Operational strategies and technological innovations play a crucial role in enhancing the effectiveness of green banking practices. Both banks have implemented a range of measures to reduce their carbon footprint and promote energy efficiency. SBI has invested in green building initiatives. waste management systems, and solar panel installations to minimize its environmental Likewise. ICICI Bank impact. leveraged technology to offer online banking services, digital statements, and electronic payment options, thereby reducing paper usage and resource consumption.

Customer awareness and engagement are vital components of successful green banking initiatives. Both SBI and ICICI Bank have undertaken various initiatives to educate their customers about the importance of environmental sustainability and encourage them to adopt eco-friendly banking practices. SBI has launched campaigns to promote green banking products and services, while ICICI Bank has introduced incentives such as discounts on green loans and rewards for eco-friendly behavior.

The development of green financial products and services is another area of focus for SBI and ICICI Bank. Both banks offer a range of products such as green savings accounts, green certificates of deposit, and green loans to incentivize sustainable behavior among customers.

SBI has pioneered initiatives like green power projects and wind farm installations to promote renewable energy financing, while ICICI Bank has introduced innovative products like green credit cards and eco-friendly investment options.

Despite the progress made by SBI and ICICI Bank in integrating green banking practices, several challenges persist. These include regulatory compliance, technological limitations, customer awareness, and financial viability. Public sector banks like SBI face additional challenges such as bureaucratic hurdles and resource constraints, while private sector banks like ICICI Bank must navigate competitive pressures and profitdriven incentives. However, challenges also present opportunities for innovation and collaboration within the banking sector to drive sustainable development.

Based on the findings of this study, several recommendations can be made to enhance the effectiveness of green banking practices in SBI and ICICI Bank:

- 1. Strengthen Regulatory Oversight: Enhance regulatory oversight and enforcement mechanisms to ensure compliance with green banking guidelines and standards.
- 2. Invest in Technological Infrastructure: Invest in advanced technological infrastructure to support green banking initiatives such as online banking, digital payments, and renewable energy financing.
- 3. Enhance Customer Engagement: Develop targeted communication strategies to raise awareness about green banking products and services among customers and incentivize sustainable behavior.



- 4. Foster Collaboration: Foster collaboration between banks, government agencies, and environmental organizations to promote knowledge sharing and best practices in green banking.
- 5. Monitor and Evaluate Impact: Establish monitoring and evaluation mechanisms to assess the impact of green banking initiatives on environmental sustainability, financial performance, and customer satisfaction.

In conclusion, the comparative study of green banking practices in SBI and ICICI Bank highlights the progress challenges faced by these two major banks in integrating environmental sustainability into their operations. While both banks have made significant strides in promoting green banking, there is still room for improvement in areas such as regulatory compliance. technological innovation. customer engagement, financial and product development. By addressing these challenges and leveraging opportunities for collaboration and innovation, SBI and ICICI Bank can further strengthen their commitment to environmental stewardship and contribute to sustainable development in India.

CONCLUSION

The advent of technology has catalyzed the adoption of green banking practices in the banking sector, fostering operational efficiency, cost-effectiveness, environmental sustainability. This research proposes an empirical model to examine the impact of key financial performance indicators, such as advances, credit deposit ratio, net non-performing assets (NPAs), and paperless transactions, on a bank's profitability. With an impressive R-squared value of 0.66, the model underscores a robust predictive relationship between these variables and the bank's profit after tax (PAT). Notably, advances, credit deposit ratio, net NPAs. mobile transactions, and debit card transactions emerge as pivotal factors influencing profitability. To ensure sustainable growth, banks are encouraged to implement rigorous credit appraisal processes and maintain favorable credit deposit ratios. Furthermore, promoting digital banking services can streamline operations and bolster customer satisfaction. The study highlights widespread awareness acceptance of green banking services customers among and employees, underscoring their significant benefits in enhancing customer satisfaction reducing environmental impact.

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