



Green Fintech Policies: A Roadmap for Sustainable Financial Innovation

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ABSTRACT

Green fintech, the intersection of financial technology and sustainable finance, is rapidly transforming global financial ecosystems by promoting environmentally responsible investments and digital financial solutions. This article explores the role of green fintech policies in driving sustainable financial innovation, focusing on regulatory frameworks, global initiatives, and India's policy landscape. It examines key policies such as green taxonomies, digital carbon markets, green bonds, and AI-driven climate risk assessment tools, highlighting their impact on financial inclusion and environmental conservation. Despite the growing adoption of green fintech, challenges such as regulatory uncertainty, cybersecurity risks, and limited investments in climate resilience technologies persist. The article proposes a policy roadmap that includes the development of a national green taxonomy, public-private partnerships, AI integration, and financial incentives for green fintech startups. By fostering a robust regulatory environment, policymakers can accelerate the adoption of green fintech and ensure a sustainable, technology-driven financial future.

Keywords: Green Fintech, Sustainable Finance, Financial Technology, Green Finance Policies, Digital Carbon Markets, etc.,

1. Introduction

The financial sector plays a crucial role in addressing climate change and promoting sustainability. With the rapid advancement of financial technology (fintech), a new paradigm known as green fintech has emerged, integrating digital finance solutions with environmental sustainability goals. Green fintech leverages blockchain, artificial intelligence (AI), big data, and digital payment systems to support sustainable investments, carbon credit trading, and eco-friendly financial products. Governments and financial regulators worldwide are recognizing the potential of green fintech in achieving climate goals and are implementing policies to encourage innovation while ensuring regulatory compliance. The European Green Deal, China's Green Finance Guidelines, and India's Green Bond Framework are some examples of initiatives that aim to align financial markets with sustainability objectives. In India, organizations like the Reserve Bank of India (RBI) and the Securities and Exchange Board of India (SEBI) are actively formulating policies to promote green financial products, encourage ESG (Environmental, Social, and Governance) investments, and support digital financial inclusion for sustainable development. However, challenges such as lack of standardized green taxonomy, cybersecurity risks, and limited adoption of climate-resilient financial products need to be addressed. This article explores the policy landscape of green fintech, highlighting global and national regulatory frameworks, challenges in implementation, and the future roadmap for fostering sustainable financial innovation. By establishing strong regulatory mechanisms and encouraging technological advancements, green fintech can drive a more inclusive and environmentally responsible financial ecosystem.

Despite the growing recognition of green fintech as a catalyst for sustainable finance, its adoption remains limited due to regulatory uncertainties, lack of standardized green taxonomies, and insufficient policy frameworks. While several countries have introduced green finance initiatives, there is a lack of a unified regulatory approach to govern digital carbon markets, AI-driven climate risk assessments, and green bond investments. In India, green fintech is still in its nascent stage, with financial institutions and policymakers struggling to establish a cohesive strategy that balances financial innovation with environmental sustainability. The existing research primarily focuses on sustainable finance and fintech separately, but limited studies examine their intersection, particularly in policy formulation and regulatory challenges. Additionally, there is a lack of empirical evidence on the effectiveness of green fintech policies in emerging economies like India. This study aims to bridge this research gap by providing a comprehensive analysis of global and national policy frameworks, evaluating India's green fintech initiatives, and proposing a structured roadmap for policy development and implementation to enhance sustainable financial innovation.

This article aims to analyze the role of green fintech in promoting sustainable finance, examine global and national policy frameworks supporting its adoption, and assess key challenges such as regulatory uncertainty, cybersecurity risks, and financial constraints. It explores India's green fintech policies, including regulatory initiatives, financial incentives, and fintech-driven sustainability efforts. Additionally, the article proposes a roadmap for fostering sustainable financial innovation through policy measures, public-private partnerships, and technological advancements, ensuring a more inclusive and environmentally responsible financial ecosystem.

2. Methodology

This study follows a descriptive and analytical research design to examine the policy landscape of green fintech and its role in sustainable financial innovation. It focuses on analyzing regulatory frameworks, identifying key challenges, and providing strategic recommendations for green fintech adoption. The study relies on secondary data sources for analysis. Key sources include government reports, policy documents, regulatory guidelines, financial sector reports, and global sustainability frameworks from institutions such as the Reserve Bank of India (RBI), Securities and Exchange Board of India (SEBI), United Nations Environment Programme Finance Initiative (UNEP FI), and the Network for Greening the Financial System (NGFS). Additionally, academic literature from peer-reviewed journals, policy research institutes, and industry reports is reviewed to understand emerging trends in green fintech policies. A comparative policy analysis is conducted by evaluating global green fintech policies and their applicability in India. This approach helps identify gaps in India's regulatory framework and highlights international best practices that could be adopted.

The study employs content analysis to systematically examine policy documents, regulations, and financial sector reports. Key themes related to regulatory challenges, policy innovations, and financial incentives are identified. A comparative analysis is conducted to assess global and national regulatory approaches, drawing insights from countries with well-developed green fintech frameworks. Additionally, case studies of successful green fintech initiatives—such as blockchain-based carbon trading, AI-driven ESG risk assessments, and digital financial solutions for green investments—are analyzed to derive policy recommendations. The study primarily focuses on policy-related aspects of green fintech, including regulatory frameworks, financial incentives, and technological innovations for sustainable finance. However, it is limited by its reliance on secondary data sources, and findings may be influenced by the availability of policy documents and ongoing changes in regulations. Future research could include primary data collection, such as expert interviews or stakeholder surveys, to provide additional empirical insights. This structured methodology enables a comprehensive assessment of green fintech policies, helping policymakers and financial institutions design a robust regulatory framework for sustainable financial innovation.

3. Analysis and Discussion

Green fintech is emerging as a key driver of sustainable finance, integrating digital technology with environmental and financial policies to promote green investments, carbon trading, and ESG-driven financial solutions. However, its adoption and regulatory landscape vary across different countries. While developed economies have structured policies, financial incentives, and technology-driven frameworks, developing countries like India are still in the early stages of implementation. This analysis compares global and Indian green fintech policies, adoption challenges, and technological advancements, highlighting key gaps and opportunities.

Table 1: Comparative Analysis of Green Fintech Policies

Factors	Global Perspective	India's Perspective	Challenges & Gaps
Regulatory Frameworks	EU Green Deal, China's Green Finance Guidelines, US ESG regulations	RBI's Sustainable Finance Framework, SEBI's ESG disclosure norms	Lack of unified green taxonomy and standard policies
Green Bond Initiatives	Well-developed in EU, China, and US with incentives	SEBI's Green Bond Framework introduced, but adoption is low	Limited financial incentives for green bond issuers
AI & Blockchain in Green Fintech	Used in carbon credit trading, ESG risk assessment, and digital green finance platforms	AI-based fintech solutions emerging, but blockchain use in carbon trading is minimal	Regulatory uncertainty in AI-driven finance and blockchain for green investments
Financial Inclusion through Green Fintech	Digital banking supports sustainable investments in developed nations	Fintech startups focus on rural financial inclusion and agri-fintech for sustainability	Lack of public-private partnerships (PPPs) to scale green fintech
Challenges in Implementation	Cybersecurity, regulatory compliance, and funding gaps	Slow adoption due to lack of incentives, unclear regulatory policies	Weak cybersecurity laws, data privacy issues, and limited green fintech funding

Source: Secondary Data from IMF

The analysis highlights that developed economies have more structured policies and incentives supporting green fintech adoption, whereas India is still laying the foundation for a sustainable fintech-driven ecosystem. The EU Green Deal, China's Green Finance Guidelines, and US ESG regulations provide clear frameworks for integrating digital technology with sustainable finance, while India's RBI and SEBI regulations focus more on initial green finance adoption but lack clear implementation strategies. Despite the introduction of SEBI's Green Bond Framework, India's green bond market remains underdeveloped, primarily due to limited financial incentives for issuers and investors. Additionally, while AI and blockchain technologies are being leveraged globally for carbon credit trading and ESG assessments, India's regulatory uncertainty and slow adoption of blockchain-based green finance solutions hinder the sector's growth.

A key challenge in India is the lack of structured public-private partnerships (PPPs) to accelerate green fintech adoption, particularly in rural financial inclusion and agri-fintech initiatives. Strengthening cybersecurity laws, financial incentives, and regulatory clarity will be essential in promoting sustainable financial innovation. Overall, the findings suggest that India must align its green fintech policies with global best practices by developing a standardized green taxonomy, promoting AI and blockchain-driven fintech solutions, and creating financial incentives for green investment initiatives. A robust policy framework will enable green fintech to drive financial inclusion, environmental conservation, and economic sustainability.

Global Fintech Market Overview (2015-2024)

Compiling a comprehensive 10-year dataset specifically for green fintech adoption and growth is challenging due to limited historical data. However, we can analyze the overall fintech market trends globally and in India, highlighting the increasing focus on sustainability and green finance in recent years.

Table 2: Global Fintech Market Overview (2015-2024)

Year	Estimated Global Fintech Market Size (USD Trillion)	Notable Trends
2015	0.5	Emergence of fintech startups focusing on payments and lending.
2016	0.7	Growth in digital wallets and mobile payment solutions.
2017	0.9	Expansion of peer-to-peer lending platforms.
2018	1.2	Rise of insurtech and regtech solutions.
2019	1.5	Increased investment in blockchain technology.
2020	1.8	Acceleration of digital banking due to the COVID-19 pandemic.
2021	2.2	Surge in buy-now-pay-later services and neobanks.
2022	2.6	Integration of artificial intelligence in financial services.
2023	3.0	Growing emphasis on ESG (Environmental, Social, and Governance) factors in fintech.
2024	3.5	Expansion of green fintech solutions focusing on sustainability.

Source: [ETBFSI.com](https://www.etbfsi.com)

Note: The figures above are illustrative estimates based on industry reports and trends.

Table 3: India's Fintech Market Overview (2015-2024)

Year	Estimated India's Fintech Market Size (INR Trillion)	Notable Trends
2015	1.5	Early adoption of digital payments and wallets.
2016	2.0	Demonetization boosts digital payment adoption.
2017	2.8	Introduction of UPI (Unified Payments Interface).
2018	3.5	Growth in digital lending platforms.
2019	4.2	Emergence of neobanks and insurtech startups.
2020	5.0	COVID-19 accelerates digital financial services.
2021	6.0	Fintech market size reaches \$31 billion, making India the third-largest fintech ecosystem globally.
2022	7.5	Expansion of investment tech and wealth management platforms.
2023	9.0	Significant growth in lending tech (INR 34 trillion), payments tech (INR 29 trillion), and neobanking (INR 5.6 trillion).
2024	10.5	Increased focus on green fintech initiatives and sustainable finance.

Source: [ETBFSI.com](https://www.etbfsi.com)

Note: The figures above are illustrative estimates based on industry reports and trends.

Over the past decade, both globally and in India, the fintech industry has experienced substantial growth. In India, the fintech market expanded from approximately INR 1.5 trillion in 2015 to an estimated INR 10.5 trillion in 2024. Notably, in 2021, India's fintech market size was valued at \$31 billion, positioning it as the third-largest fintech ecosystem globally. By 2023, key segments such as lending tech, payments tech, and neobanking reached market sizes of INR 34 trillion, INR 29 trillion, and INR 5.6 trillion, respectively. In recent years, there has been a growing emphasis on integrating sustainability into financial services, leading to the emergence of green fintech solutions. These initiatives aim to promote environmental sustainability through innovative financial technologies, reflecting a global shift towards more responsible and sustainable economic practices.

Technological Innovations in Green Fintech

The integration of advanced technologies such as Artificial Intelligence (AI), Blockchain, Big Data, and the Internet of Things (IoT) has transformed green fintech, enabling efficient carbon trading, sustainable investment strategies, and climate risk assessment. These technologies play a crucial role in ensuring financial inclusivity and transparency in green finance. However, policy gaps and regulatory challenges affect their widespread implementation. The following table presents a comparative analysis of technological advancements in green fintech at the global level and in India.

Table 4: Role of Technology in Green Fintech

Technological Innovation	Global Adoption	India's Adoption	Challenges & Gaps
AI for ESG Risk Assessment	AI-powered tools used for climate risk analysis, ESG scoring, and sustainable investment tracking	Emerging AI-based green credit scoring and risk assessment tools by fintech firms	Lack of AI-driven regulatory framework for green finance
Blockchain for Carbon Trading	Blockchain-based carbon credit trading platforms and transparent green bonds	Few pilots in blockchain for carbon credit verification, but limited adoption	Regulatory uncertainty and lack of standardized carbon trading mechanisms
IoT and Big Data for Climate Risk Management	IoT sensors and big data analytics used to monitor climate-related financial risks	Some Indian banks and fintech startups exploring climate data analytics	Limited investments in IoT-based climate risk solutions
Green Digital Payments & Neobanks	Neobanks promoting carbon-neutral transactions, sustainable investing, and eco-friendly rewards programs	Digital payment platforms incorporating sustainable banking models	Slow expansion of green fintech-driven neobanks
Crowdfunding & Green Investment Platforms	Digital platforms facilitate sustainable investments and green crowdfunding initiatives	Some Indian startups offer green crowdfunding solutions, but growth is slow	Limited awareness and investor participation

Source: [ETBFSI.com](https://www.etbfsi.com)

The use of AI in ESG risk assessment is growing globally, enabling climate risk forecasting and sustainable investment decision-making. However, India still lacks a regulatory framework to ensure the ethical and transparent use of AI in green finance. The Reserve Bank of India (RBI) and the Securities and Exchange Board of India (SEBI) need to establish guidelines for AI-driven ESG assessments to boost investor confidence. Blockchain technology is revolutionizing carbon credit trading and green bonds in developed countries, ensuring transparency and traceability. While India has started exploring blockchain in carbon credit verification, regulatory uncertainty and the absence of standardized trading mechanisms limit its growth. A structured blockchain-based carbon trading platform with regulatory approval could significantly improve green finance accountability in India.

IoT and Big Data are widely used globally to monitor climate risks and environmental impact, helping financial institutions make data-driven sustainable investment decisions. India has potential for growth in this area, but low investment in IoT-based climate risk solutions hinders scalability. Policymakers must promote tech-driven climate risk mitigation strategies to enhance financial resilience against environmental challenges. Green digital payments and neobanks have successfully integrated sustainability into financial services worldwide. However, in India, green fintech-driven neobanks are still at a nascent stage, requiring more incentives to promote carbon-neutral transactions and green investment options. While some Indian startups are offering green crowdfunding and sustainable investment platforms, low awareness and limited investor participation restrict their impact. Awareness campaigns and regulatory support could accelerate the adoption of green fintech investment solutions.

Overall, India must accelerate its green fintech technological transformation by providing policy support, regulatory clarity, and financial incentives for AI, blockchain, IoT, and digital green banking innovations. This will help create a sustainable and tech-driven financial ecosystem supporting climate resilience and green investments.

Financial Incentives and Government Policies for Green Fintech

Governments and financial regulators worldwide are introducing policy measures and financial incentives **to accelerate** green fintech adoption. **These incentives include** subsidies, tax benefits, green bonds, priority sector lending, and sustainability-linked loans. **However,** the effectiveness of these measures varies **depending on the** regulatory environment, financial infrastructure, and public-private partnerships (PPPs) **in different countries.** **The table below presents a comparative analysis of** financial incentives and government policies supporting green fintech **at the** global and Indian levels.

Table 5: Financial Incentives and Government Policies in Green Fintech

Policy Measure	Global Initiatives	India's Initiatives	Challenges & Gaps
Green Bonds & Tax Incentives	EU, China, and US offer tax benefits and grants for green bond issuers	SEBI's Green Bond Framework allows green bond issuance, but tax incentives are limited	Lack of tax incentives and low investor participation in green bonds
Priority Sector Lending (PSL) for Green Finance	Some developed countries have PSL categories for renewable energy and sustainability projects	RBI has included renewable energy under PSL, but fintech-driven sustainability financing is still limited	Need for expanding PSL to include green fintech initiatives
Sustainability-Linked Loans & Green Credit Guarantees	Widely adopted in Europe, encouraging businesses to meet sustainability goals	Green credit facilities available, but no structured sustainability-linked loan framework in fintech	Lack of structured policy for green fintech loans and credit guarantees
Public-Private Partnerships (PPPs) in Green Fintech	PPPs promote climate fintech innovation and carbon trading platforms	Some green fintech startups receive government support, but PPPs are underdeveloped	Lack of large-scale PPP models for green fintech growth
Carbon Credit Market & Trading Mechanisms	Countries like China and EU have structured carbon trading platforms with clear pricing models	India's Voluntary Carbon Market Framework is emerging, but blockchain-based carbon credit trading is underdeveloped	Need for a robust regulatory framework and pricing mechanism for carbon credits

Source: [ETBFSI.com](https://www.etbfsi.com)

Green bonds are a major financing tool for sustainable projects globally. Countries like China, the EU, and the US provide tax exemptions and financial incentives for green bond investors. India has introduced SEBI's Green Bond Framework, but lacks tax benefits and investor-friendly policies to boost green bond market participation. Introducing tax incentives and subsidies can enhance green bond investments and strengthen sustainable finance. Many developed nations categorize green finance and renewable energy under priority sector lending (PSL) to increase credit flow into sustainable projects. India's RBI has included renewable energy under PSL, but fintech-driven sustainability financing is still limited. Expanding PSL coverage to include green fintech startups would facilitate digital lending for climate-related projects and enhance financial inclusion.

Sustainability-linked loans, widely used in Europe, encourage businesses to achieve sustainability targets. India has green credit facilities, but lacks a structured sustainability-linked loan framework in fintech. Implementing government-backed credit guarantees and interest subsidies for green fintech firms can accelerate their growth and investment inflow. PPPs play a vital role in scaling climate fintech solutions, fostering innovation in carbon trading, digital green banking, and sustainable investments. While some Indian fintech startups receive government support, there are few large-scale PPP models supporting green fintech. Developing PPP frameworks to promote AI-driven ESG solutions, blockchain-based carbon trading, and digital green investment platforms is crucial. Countries like China and the EU have established carbon credit trading mechanisms, providing transparent pricing and digital tracking. India is in the early stages of developing its carbon credit market, but lacks clear regulatory guidelines and technology-driven solutions such as blockchain-based carbon credit trading. A structured policy with digital tracking mechanisms can boost transparency and efficiency in carbon credit transactions.

Policy Recommendations

1. Introduce Tax Incentives for Green Bond Investors – Offering tax exemptions and subsidies can enhance capital inflow into sustainable finance projects.
2. Expand PSL Coverage to Green Fintech Startups – Allowing digital lending for climate projects under PSL can improve green credit accessibility.
3. Develop a Structured Framework for Sustainability-Linked Loans – Creating government-backed credit guarantees can encourage green fintech startups.
4. Promote PPPs for Digital Climate Finance Solutions – Large-scale partnerships can drive AI-driven ESG risk assessment and blockchain-based green investments.

5. Establish a Regulated Digital Carbon Credit Market – Implementing blockchain-based carbon trading platforms can enhance transparency and pricing efficiency.

India has significant potential to expand its green fintech ecosystem through policy reforms, financial incentives, and digital innovations. Strengthening regulatory frameworks, public-private collaborations, and sustainability-linked financing mechanisms can enable green fintech to drive long-term environmental sustainability and financial inclusion.

Challenges and Future Prospects of Green Fintech Adoption

Despite the growing interest in green fintech, several challenges hinder its widespread adoption, especially in developing economies like India. Key issues include regulatory uncertainty, limited financial incentives, technological barriers, investor skepticism, and lack of awareness. Addressing these challenges is crucial to creating a sustainable and digitally-driven green finance ecosystem. The table below presents a comparative analysis of major barriers and potential solutions for green fintech development globally and in India.

Conclusion

Green fintech has emerged as a transformative force in the financial sector, integrating technology-driven solutions to promote sustainable economic practices. Over the past decade, the rapid growth of fintech globally and in India has paved the way for innovative green finance solutions, including digital lending for sustainable projects, carbon credit trading platforms, and ESG-focused investments. While regulatory frameworks and policy support have contributed to the sector's expansion, challenges such as data transparency, financial inclusion, and scalability remain. Moving forward, fostering collaborations between fintech firms, policymakers, and environmental stakeholders will be crucial in accelerating green fintech adoption and ensuring a more sustainable financial ecosystem.

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