Green Fintech-Sustainable Lending Platforms in India: A Case study of RevFin Services Private Limited.

Dr. Punith Kumar.D.G [1] and Dr. Meghana P S [2]

[1]*Assistant Professor, Department of Commerce, Government First Grade College, Santhebennuru, Davangere, Karnataka, India*
[2]*Assistant Professor, Department of Commerce, Government Arts College (Autonomous), Chitradurga, Karnataka, India*

Abstract
Green fintech is emerging as a critical force in transforming India's financial sector by integrating sustainability into digital finance. This paper explores how green fintech innovations, such as sustainable lending platforms, contribute to India's environmental and financial goals. By analyzing case study of RevFin Services Private Limited the impact, challenges, and future potential of green fintech in India has been analysed. From the study it is revealed that RevFin's innovative approach to digital lending, strategic partnerships, and focus on underserved markets position it as a key player in promoting sustainable finance and accelerating the adoption of electric vehicles in India. Despite many challenges, Revfin has managed to make strides in promoting and supporting sustainable transportation solutions.
Keywords: Green fintech, sustainable lending platforms, RevFin

I. INTRODUCTION

India's financial sector is undergoing a significant transformation driven by technological advancements and sustainability concerns. As one of the fastest-growing economies, India faces pressing environmental challenges, including climate change, pollution, and resource depletion. The need for sustainable financial solutions has never been more critical. India's push towards sustainable finance has been accelerated by fintech innovations aimed at addressing environmental concerns while enhancing financial inclusion.

Green fintech, which combines financial technology with environmental, social, and governance (ESG) principles, is emerging as a key enabler of responsible financial practices. Green fintech aims to bridge the gap between financial inclusion and sustainability by promoting digital lending for green projects, facilitating carbon credit trading, and driving ESG-focused investment strategies. By leveraging blockchain, artificial intelligence (AI), and big data analytics, green fintech solutions enhance transparency, efficiency, and accessibility in the sustainable finance ecosystem. The increasing adoption of digital payments, mobile banking, and regulatory incentives in India creates a conducive environment for the expansion of green fintech initiatives. The Indian government and regulatory bodies, including the Reserve Bank of India (RBI) and the Securities and Exchange Board of India (SEBI), have taken steps to integrate sustainability into financial policies. Initiatives such as the Sustainable Finance Task Force and SEBI's ESG disclosure mandates are designed to encourage financial institutions and investors to align with global sustainability standards. These policies create opportunities for green fintech companies to innovate and scale their solutions.

Among the various innovative Green Fintech companies operating in India, **RevFin Services Limited** stands out due to its unique business model and strategic focus on sustainable mobility financing. Unlike conventional financial institutions that primarily cater to mainstream lending needs, RevFin has carved a niche for itself by specializing in electric vehicle (EV) financing, particularly for underserved segments such as first-time borrowers, gig economy workers, and small business owners.

II. Review of Literature

Several researchers have explored the integration of fintech with sustainable finance. Studies indicate that green fintech enhances financial inclusion while promoting environmentally responsible investment strategies. A study by Addy,W.A.,etal.,(2024) highlighted that fintech companies by harnessing the power of Big Data and advanced analytics are empowering stakeholders to make informed decisions that promote environmental stewardship and support the transition to a low-carbon economy. KPMG"s Report (2023) emphasise the role of AI and blockchain in facilitating transparency and efficiency in ESG investment has been widely acknowledged. A study by Gupta and Sharma (2022) found that digital lending platforms significantly contribute to green finance by making credit accessible to businesses engaged in renewable energy and climate-

conscious projects. However, challenges such as high-interest rates and lack of awareness persist. According to a report by the International Monetary Fund (IMF, 2024), blockchain-based carbon credit trading has the potential to reduce fraud and enhance market efficiency. The study by Upadhya, V et al (2024)., reveal a positive correlation between Fintech adoption and ESG performance. Policy implications highlight the need for regulatory frameworks aligning Fintech with sustainable finance goals.

Research Objectives:
1. To overview the Business Model of RevFin.
2. To assess the contribution of RevFin to SGDs.

Sustainable Lending Platforms

Sustainable lending platforms are financial services that provide credit to businesses and individuals engaged in eco-friendly activities, such as renewable energy projects, electric vehicle adoption, sustainable agriculture, and energy efficiency initiatives. These platforms leverage AI, machine learning, and digital lending tools to assess creditworthiness based on ESG criteria rather than just traditional financial metrics.

Key Features of Sustainable Lending Platforms

- **AI-Driven Credit Assessment**: Uses alternative credit scoring mechanisms that evaluate ESG compliance and sustainability impact.
- **Lower Interest Rates for Green Projects**: Incentivizes borrowers investing in sustainability-focused initiatives.
- **Blockchain for Transparency**: Ensures end-to-end tracking of fund utilization to verify alignment with sustainability goals.
- **Integration with Carbon Credit Markets**: Allows borrowers to generate and trade carbon credits, enhancing financial viability.

Case Study of RevFin Services Private Limited

RevFin, established in 2018 and headquartered in New Delhi, India, is a financial technology (fintech) company specializing in providing digital loans to underserved individuals, particularly in Tier 2 and Tier 3 cities. The company focuses on financing electric vehicles (EVs), aiming to promote sustainable transportation and financial inclusion.

Business Model and Services

RevFin operates through its non-banking financial company (NBFC), Aristo Securities Private Limited, offering loans primarily for commercial electric vehicles. Instead of CIBIL the company employs innovative methods such as psychometric analysis, biometrics, and gamification to assess the creditworthiness of individuals with little or no credit history. This approach enables RevFin to extend credit to a broader customer base, facilitating the adoption of EVs among underserved populations.

Financial Performance

In the fiscal year 2022-2023 (FY23), RevFin reported a revenue of ☐37 crore and achieved a break-even point with a profit after tax (PAT) of approximately ☐8 crore. The revenue increased to ☐80 crore for 2023-24. As of 2024 the company has served over 75,000 customers & disbursed INR 1000 Crores worth of loans.

Funding and Investments

RevFin has successfully raised significant funds to support its operations and expansion plans. In a Series B funding round, the company secured $14 million, led by Omidyar Network, with participation from ADB Ventures, Companion Capital, and existing investors Green Frontiers Capital and LC Nueva. As of September 2024, RevFin had raised approximately ☐800 crore in debt funding, with plans to raise an additional ☐100-150 crore in the near term.

Strategic Partnerships

To enhance its service offerings and market reach, RevFin has established several strategic partnerships:

- **Hero Electric**: Collaborated to finance and lease 250,000 electric two-wheelers over three years, aiming to make EV adoption more accessible.
- **Sun Mobility**: Partnered to deploy 100,000 EVs with battery-swapping solutions, strengthening last-mile mobility.

- **PM Solar2EV Initiative**: Joined the initiative launched by the Ministry of Social Justice & Empowerment and the Government of Maharashtra to provide digital lending services and promote financial inclusion, expediting the target of financing 2 million electric vehicles nationwide by 2029.

Establishment of RevShaala

Increasing the lifespan of your electric vehicle (EV) has been crucial for sustainable mobility. As part of Revfin's mission to revolutionise sustainable mobility, Revshaala has become a state-of-the-art facility dedicated to extending the lifespan and roadworthiness of commercial EVs financed by Revfin - vehicles that might otherwise have been scrapped.

Specializing in refurbishing repossessed EVs, Revshaala has expertly handled a diverse range of vehicles, including electric two-wheelers (E-2W), electric three-wheelers (E-3W), and electric four-wheelers (E-4W). The facility has conducted comprehensive electrical, electronic, and mechanical work under one roof, adhering to the highest standards of operation using the latest equipment and technologies. Once refurbished, these vehicles have been redeployed back on the road, ready for continued use.

Contribution of Revfin to SDGs

RevFin's contributions align closely with multiple **United Nations Sustainable Development Goals (SDGs)**, particularly in the areas of clean energy, climate action, financial inclusion, and economic growth.

1. **SDG 5: Gender Equality-** RevFin offers women equal rights to economic resources and financial services, as well as access to ownership and control over property by providing loans to more 14000 women in Bihar and UP which is 23.45% of their total lending.

2. **SDG 7: Affordable and Clean Energy**- RevFin promotes the adoption of electric vehicles **(EVs)** by offering accessible and flexible financing solutions. By financing EVs for last-mile mobility, RevFin reduces dependence on fossil fuels and encourages a shift to cleaner energy sources. Partnerships with Sun Mobility for battery-swapping solutions and solar-powered EV charging initiatives further strengthen the green energy ecosystem.

3. **SDG 8: Decent Work and Economic Growth-** Supports financial inclusion by providing loans to gig workers, delivery agents, and small entrepreneurs who would otherwise struggle to access traditional financing. 85% of lending is made to financially excluded customers. It Promotes inclusive economic growth by financing vehicles used for income-generating activities such as ride-hailing, delivery services, and logistics.

4. **SDG 9: Industry, Innovation, and Infrastructure-** RevFin enables small businesses, gig workers, and transport operators to transition to sustainable transportation solutions by financing EVs. The fintech firm utilizes AI-driven credit assessment and digital lending**,** ensuring efficient loan disbursement for underserved communities. It also supports the development of green infrastructure, such as charging networks and battery-swapping stations, through collaborations.

5. **SDG 10: Reduced Inequalities-** Offers loans to underserved and unbanked populations in Tier 2 and Tier 3 cities, helping bridge financial inequalities. Uses alternative credit assessment models (psychometric testing, biometric verification) to support those without traditional credit histories. Facilitates economic participation of women and marginalized communities by financing EVs used in female-led businesses and community transport services**.**

6. **SDG 11: Sustainable Cities and Communities-** By financing electric three-wheelers and two-wheelers, RevFin helps reduce urban air pollution and promotes cleaner transport options. Supports the electrification of urban transport systems, reducing carbon emissions in densely populated cities. It works with municipal bodies and private companies to accelerate eco-friendly mobility solutions in cities.

7. **SDG 13: Climate Action**

By funding **over** 75,000 electric vehicles (as of 2024) and setting a goal to finance 2 million EVs in the next five years, RevFin significantly contributes to CO_2 emission reduction in India. It aims to help India progress toward its net-zero emissions target by 2070 by reducing reliance on fossil fuel-based transport. It also encourages green investments and sustainability through low-carbon transportation finance**.**

8. **SDG 17: Partnerships for the Goals**

RevFin Collaborates with government initiatives like the PM Solar2EV program, supporting India's transition to a clean energy-based economy. The company works with private sector partners, including Hero Electric, Sun Mobility, and Green Frontiers Capital**,** to expand access to EV financing. Attracts global investors and green finance stakeholders**,** strengthening India's commitment to sustainability through fintech-driven solutions.

Challenges of Revfin Services Private Limited

Revfin, like many companies in the financial sector, faces several challenges in its operations and its mission to drive the adoption of electric vehicles (EVs) and promote sustainable financing. Some of the key challenges include:

1. **Regulatory and Policy Uncertainty**: The EV sector, while growing, is still subject to regulatory changes and policy shifts. Incentives for electric vehicle adoption or financial schemes may change, impacting Revfin's ability to offer competitive financing options.

2. **Credit Risk and Loan Recovery**: As a financial institution, Revfin is exposed to credit risk, particularly when lending to individuals and small businesses with limited credit histories. Recovering loans from customers who default or face financial difficulties can be challenging.

3. **Market Competition**: Revfin competes with other financial institutions and NBFCs that may also offer financing for EVs. The competition could lead to challenges in maintaining a competitive edge in pricing, customer service, and overall market share.

4. **Technology Dependence**: As Revfin's business is highly dependent on technology to assess loan eligibility, track repayments, and manage customer interactions, any technology disruptions or cybersecurity threats could impact the company's operations.

5. **Changing Consumer Behavior**: While interest in EVs is growing, the pace of adoption can be slower than anticipated. Consumer hesitation to switch from traditional vehicles to EVs due to factors like charging infrastructure, range anxiety, or perceptions about reliability can hinder Revfin's growth potential.

6. **Environmental and Supply Chain Challenges**: The sourcing of raw materials for EVs, such as lithium for batteries, can be challenging. Any disruptions in the global supply chain or fluctuations in material prices could impact the availability and affordability of EVs, indirectly affecting Revfin's financing business.

III. Conclusion

RevFin is making a significant impact on sustainable development by driving clean energy adoption, improving financial inclusion, reducing carbon emissions, and supporting green innovation in India's fintech ecosystem. Through strategic investments and partnerships, RevFin is helping India transition to a low-carbon economy while fostering economic empowerment among underserved communities. Despite many challenges, Revfin has managed to make strides in promoting EV adoption in India and supporting sustainable transportation solutions. Thus Green fintech is poised to play a pivotal role in India's journey toward a sustainable financial ecosystem. By leveraging technology for sustainable lending, carbon trading, and ESG investments, India can enhance its financial inclusion goals while addressing climate change challenges.

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