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Rinzing Ongmu Bhutia
Assistant Professor,
Department of Economics,
Sanchaman Limboo
Government College,
Aarigoan, Gyalshing, Sikkim,
India

Corresponding Author:
Rinzing Ongmu Bhutia
Assistant Professor,
Department of Economics,
Sanchaman Limboo
Government College,
Aarigoan, Gyalshing, Sikkim,
India

Green finance for all: Expanding access to sustainable investments

Rinzing Ongmu Bhutia

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Abstract
Green finance has emerged as a pivotal mechanism in steering global economies toward sustainable development, integrating environmental considerations into financial decision-making processes. By mobilizing capital flows toward low-carbon technologies, renewable energy projects, and ecologically restorative initiatives, it functions as both a catalyst for climate change mitigation and an instrument for socio-economic resilience. This paradigm transcends traditional investment frameworks by internalizing environmental externalities, fostering innovation in sustainable business models, and aligning fiscal growth with planetary boundaries. The evolution of green finance underpinned by regulatory reforms, market-driven instruments such as green bonds, and the increasing influence of environmental, social, and governance (ESG) criteria reflects a paradigm shift in global financial systems. Nevertheless, its scalability is contingent upon harmonized policy frameworks, transparent reporting standards, and the equitable distribution of financial resources across both developed and emerging economies. In essence, green finance represents not merely an economic imperative but an ethical commitment to recalibrating the nexus between prosperity and ecological stewardship.

Keywords: Green finance, sustainability, environment

Introduction
After the Second World War an economic model focused on mass production and consumption emerged as the new model of development. The neoliberal paradigm popularized by US President Ronald Reagan and UK Prime Minister Margaret Thatcher in 1980s paved the way for a market friendly reform. Within this tradition, the concept of development was connected with modernization underpinned by Keynesianism and emergence of a welfare state. Most of the countries after the Cold world adopted a democratic model of government with capitalist mode of production, a period which Francis Fukuyama described as “End of History”. The onset of economic reforms of 1990s influenced the third world countries to rush towards global hypermodernity, a new kind of urban utopia. To achieve this utopia the following two decades all of the countries natural resources were cannibalized. A new discourse of consumption emerged. This utopian dream was given a sudden blow by the Earth Summit held in Rio de Janeiro. The damage caused by these rapid developmental projects was finally acknowledged. After the realization hit that our planet was living on borrowed times sustainable developed project gained momentum. One such sustainable development initiative was green finance. In academic parlance it can be defined as any financial investment source that promotes environmentally friendly initiatives and sustainable development.

In an era defined by escalating ecological exigencies and an urgent imperative for decarbonisation, green finance emerges as both an ethical mandate and a pragmatic economic strategy. Yet, its transformative potential remains stifled when access is confined to institutional elites or sophisticated market actors. Expanding the ambit of sustainable investments to encompass diverse stakeholders ranging from grassroots communities to small-scale enterprises not only democratizes capital flows but also fortifies the socio-environmental fabric of global markets. By dismantling structural barriers, fostering financial literacy, and innovating inclusive mechanisms, green finance can evolve into a universally accessible conduit for environmental stewardship and equitable prosperity. From microfinance initiatives enabling rural communities to adopt renewable energy, to fintech-driven platforms democratising climate-friendly portfolios, the spectrum of possibility is vast and transformative. A truly universal green finance ecosystem will not only accelerate the decarbonisation agenda but also embed environmental consciousness into the very DNA of economic systems, thereby cultivating a future where prosperity and planetary stewardship are mutually reinforcing.

Review of Literature

Following is a review of some literature of some relevant work on the research topic. The books and articles taken here for review are merely indicative and not exhaustive by any means.

Vesna Martin in *Green Finance: Regulation and Instruments* (2002) [2] highlights the importance of Green Finance initiative for ensuring sustainable development. Because green finance is founded on the ideas of protecting the environment and lowering the risk of climate change, it facilitates a green transition towards long-term sustainable economic growth. She further talks about how all facets of our lives and businesses are impacted by climate change. Because of this, it's critical to identify the risks that climate change poses early on and take appropriate action. Policies for green finance differ from nation to nation, but they typically consist of incentive programmes meant to enhance green finance as well as frameworks for evaluating environmental risk.

Wang, Y., & Zhi, Q in *The role of green finance in environmental protection: Two aspects of market mechanism and policies* (2016) [5] looked into the current state of green finance for renewable energy and found some inefficient processes. Green finance can better utilise social and environmental resources, control capital flow, and manage risk if it is implemented through a well-thought-out market mechanism. Effective policy regulation, according to the research, will also solve the issue of knowledge asymmetry and moral hazard. The research indicates that banks finance the majority of green investments. There is a dearth of research on green finance in India, and the underperformance of the sector is largely explained by theoretical frameworks rather than empirical data.

Jain, S. in *Financing India's green transition* (2020) [1] stated that in order to match its financial system with its long-term needs while taking environmental risks into account, India needs to create a comprehensive strategy and an integrated policy approach. The goal of the National Action Plan on Climate Change (NAPCC) was to develop a thorough framework for policies aimed at mitigating the effects of climate change when it was established in 2008. The Indian Banking Association introduced the National Voluntary Requirements for Responsible Financing in 2015; this policy is an example of one that contains extensive guidelines for green lending. The industry, not the central bank, is driving these initiatives.

In *Handbook of Green Finance Energy Security and Sustainable Development: Energy Security and Sustainable Development* (2019) [4] the authors talked about how the development of financial tools and a thorough re-examination of the finance system are necessary to achieve the goals of the Paris Agreement. In order to encourage economic growth and enhance the environment, new green finance tools and concepts have been developed extensively in recent years. Examples of these include green bonds, green banks, carbon markets, green central banking, and community-based green funds. Banks, asset management firms, pension funds, insurers, and individual consumers are progressively incorporating environmental considerations into the selection of their financial portfolios.

In the book *Desire Named Development* (2011) [3] Aditya Nigam attempted to draw attention to the reality that private companies are using government assistance to exploit natural resources in a way that only serves their interests. Furthermore, there is no benefit to the exploited small landowners. Numerous uneasy questions are brought up by the predatory neo-liberal capitalism that has taken root in India over the past 20 years. Consumption now determines who we are. Furthermore, it appears that the government now views all of us as nothing more than consumers because the western capitalist model continues to rule supreme. The impact on the rural population in India has been immense.

Definition, Scope, and Evolution of Green finance

Definition

Green finance, in its most widely accepted sense, refers to financial instruments, policies, and investment flows that are specifically designed to foster environmentally sustainable outcomes. It encompasses the mobilization of capital toward projects, technologies, and enterprises that contribute to the mitigation of climate change, the conservation of biodiversity, the reduction of pollution, and the sustainable management of natural resources. Unlike conventional finance, which primarily assesses investment viability through metrics of profitability and risk-adjusted returns, green finance integrates environmental externalities into financial decision-making, thereby aligning economic growth with ecological stewardship.

The concept extends beyond mere funding for renewable energy projects it also encapsulates the broader transformation of financial systems to internalize environmental considerations as intrinsic to market operations. This shift involves embedding environmental, social, and governance (ESG) principles into investment criteria, adopting carbon accounting methodologies, and ensuring that capital allocation supports long-term planetary well-being rather than short-term financial gain.

Scope

The scope of green finance is multi-dimensional and spans across sectors, instruments, and stakeholders. At its core, it includes:

- **Green Bonds and Loans:** Debt instruments specifically earmarked for financing climate-positive or environmentally beneficial projects, such as solar farms, wind parks, and sustainable transport systems.
- **Sustainable Equity Investments:** Shareholding in companies with proven environmental track records or robust decarbonisation strategies.
- **Green Insurance Products:** Risk management tools that incentivise climate-resilient infrastructure and disaster preparedness.
- **Carbon Finance:** Mechanisms for trading carbon credits and investing in emissions-reduction initiatives.
- **Public–Private Partnerships:** Collaborative financial frameworks between governments, private firms, and multilateral agencies to deliver large-scale sustainable

infrastructure.

- **Microfinance for Sustainability:** Low-interest or small-scale loans enabling local communities to adopt clean energy, organic agriculture, or resource-efficient technologies.
- **Technological Enablers:** Use of FinTech, blockchain, and AI to enhance transparency, traceability, and inclusivity in green investment channels.

The scope is not limited to mitigation of climate change; it equally emphasizes adaptation measures such as financing coastal defenses, drought-resistant agriculture, and ecosystem restoration to enhance resilience against environmental shocks.

Evolution

The evolution of green finance has been a gradual yet accelerating process, shaped by environmental crises, market innovation, and global policy frameworks.

The seeds of green finance were sown during the environmental awakening of the 1970s, when the first wave of ecological consciousness emerged alongside concerns over pollution and natural resource depletion. Initial efforts were largely philanthropic or policy-driven, with limited private-sector engagement. By the 1990s, concepts such as *ethical investment* and *socially responsible investing (SRI)* began integrating environmental criteria into portfolio management.

The early 2000s witnessed the formalization of environmental risk assessment in financial institutions. Initiatives such as the Equator Principles (2003) provided voluntary guidelines for assessing environmental and social risks in project finance. The introduction of the Kyoto Protocol's Clean Development Mechanism (CDM) also institutionalized carbon markets, opening new channels for environmental investments. This period marked a significant turning point, with green finance moving from the periphery to the mainstream of global capital markets. The launch of the *Green Bond Principles* in 2014 standardized disclosures and use-of-proceeds requirements, catalyzing the exponential growth of green bond issuance. Multilateral development banks, sovereign states, and corporations began issuing green securities on an unprecedented scale.

The 2015 Paris Agreement galvanized global consensus on the necessity of aligning financial flows with low-carbon and climate-resilient development pathways. Green finance became a formal policy priority for G20 economies, and institutions such as the Network for Greening the Financial System (NGFS) emerged to guide central banks in managing climate-related risks. The United Nations' Sustainable Development Goals (SDGs) further broadened the scope of green finance beyond climate mitigation to encompass biodiversity, clean water, and sustainable cities.

The current phase is characterized by the integration of advanced technologies blockchain for transparent bond tracking, AI-driven ESG analytics, and mobile-based investment platforms that democratize access to green finance. There is also a notable push towards inclusivity, ensuring that individuals, small businesses, and developing economies can participate in and benefit from sustainable investment flows. The COVID-19 pandemic reinforced the interconnectedness of environmental health and economic stability, further embedding sustainability into the financial discourse.

Green Bonds: Opportunities, Risks, and Market Growth

Green bonds, as a new debt product aimed at funding environment-friendly ventures, have become a key driver in channelling capital towards low-carbon and climate resilient economic transformations. Issued by governments, supranational organisations, and companies, these bonds dedicate proceeds to funding projects with proven environmental impacts such as renewable energy production and green urban transport to reforestation and climate-proof infrastructure. The opportunities within this market are multiple: they not only give investors a vehicle to align portfolios with ESG considerations but also allow issuers to diversify investor bases and build reputational capital in a world where environmental responsibility is under ever more intense scrutiny. The steep growth path of the green bond market, fueled both by regulatory push and demand from investors, highlights its market potential as an ordinary financial product and not a niche product. The market is not risk-free, though. Issuers and investors face financial and reputational risks due to worries about "greenwashing," which occurs when proceeds are purportedly labeled sustainable without thorough verification. Investor confidence may also be weakened by the lack of globally standardized taxonomies and disclosure frameworks, which can impede comparability and transparency. However, the market for green bonds is expected to continue to grow as global climate commitments increase and policy frameworks develop. This growth will be supported by technological developments in project monitoring, increased institutional investor involvement, and the slow adoption of strict environmental performance metrics. Essentially, green bonds represent a fusion of ecological stewardship and financial innovation, establishing them as a fundamental component of the developing framework of sustainable finance.

Current Barriers to Inclusive Participation

Notwithstanding the euphoric rhetoric on the democratisation of green finance, the way to general participation in sustainable investments is still blocked by a convergence of structural, informational, and institutional barriers. Top of that list is the widespread lack of financial literacy among marginalized and economically disadvantaged groups, where the sophisticated vocabulary of sustainable finance laced with ESG metrics, carbon offsetting arrangements, and impact measurement frameworks is foreign and beyond reach. This asymmetry in knowledge is further augmented by the skewed concentration of green investment vehicles in institutional and high-net-worth investor markets, essentially marginalizing the retail players by the prohibitive entry barriers, restricted diversification in products, and lack of micro-denominated instruments that are responsive to small-scale capital. Additionally, the regulatory and infrastructural scaffolding necessary to enable widespread access is typically underdeveloped, with most jurisdictions having unclear taxonomies, nondisabled disclosure practices, and green finance-focused investor protection mechanisms. Also, the existence of greenwashing heightens mistrust among potential participants since vague or exaggerated claims of sustainability undermine confidence and pose reputational risks that fall disproportionately on inexperienced investors. Geographical differences further aggravate the exclusionary gap, with rural societies and emerging markets tending to experience weakly developed financial environments, weak digital infrastructure, and limited access to trustworthy investment intermediaries. As a result, the existing structure of green finance, though strong in its institutional form, tends instead to maintain an unwitting elitism, whereby green investment opportunities are concentrated within well-funded, information rich constituencies, with the result that enormous tracts of the global populace are relegated to being passive onlookers instead of active participants in the shift to an inclusive, low-carbon economy.

Conclusion

In conclusion, the vision of green finance for all requires more than rhetorical assurances; it requires the conscious dismantling of deeply entrenched barriers that segregate sustainable investment in privileged enclaves. The fair dissemination of green money relies on a synergistic dynamic of policy innovation, technological democratization, and focused capacity-building to make sure that access to environmentally sound investment options is neither the privilege of institutional elites nor limited by geographical or socioeconomic considerations. By integrating transparency, affordability, and inclusiveness into the very fabric of sustainable finance, policymakers and market players can trigger a paradigm shift in which each and every person regardless of income levels or informational endowment becomes an active co-architect of the low-carbon transition. Such a rearrangement not only strengthens the legitimacy and durability of international financial systems but also converts the decarbonisation agenda from an engineer’s pursuit into a truly participatory movement, hence balancing economic ambition with ecological guardianship and social justice.

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