

Islamic Social Finance and Environmental Sustainability: A Critical Review of Policy and Practice

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Abstrak: *This paper explores the integration of Islamic Social Finance (ISF) with environmental sustainability, aiming to evaluate the potential and challenges of using Islamic financial tools like zakat, waqf, and sukuk to support green projects. The research employs a narrative literature review methodology, analyzing over 200 studies, and categorizing them by thematic areas such as the role of Islamic finance instruments in sustainability, the incorporation of Environmental, Social, and Governance (ESG) principles, and the barriers to effective implementation. Key findings indicate that ISF can play a significant role in addressing sustainability goals, particularly in funding renewable energy, climate change mitigation, and social development projects. However, the study also highlights several challenges, including regulatory inconsistencies, lack of awareness among stakeholders, and insufficient institutional capacity. Additionally, the integration of Maqasid al-Shari'ah principles with modern sustainability frameworks has been proposed as a way to enhance the ethical alignment of ISF with environmental goals. Despite these opportunities, the paper points out that regulatory gaps and the limited understanding of ISF's potential for environmental impact are major barriers. The study concludes that enhancing regulatory frameworks and promoting the use of technology, such as blockchain and fintech, can improve the transparency, accountability, and effectiveness of ISF tools. The findings provide valuable insights into how Islamic finance can support sustainable development, while suggesting further empirical research to evaluate ISF's real-world impact and potential for scaling green finance initiatives.*

Keywords: *Islamic Social Finance, Environmental Sustainability, Green Finance, Zakat, Sukuk, Waqf*

INTRODUCTION

The increasing relevance of Islamic Social Finance (ISF) in fostering sustainable development has garnered significant academic and policy interest, particularly in light of global challenges such as climate change, poverty, and inequality. Islamic finance, grounded in Shariah principles, emphasizes ethics, equity, and social justice, making it a compelling avenue for addressing critical issues that intersect with the United Nations Sustainable Development Goals (SDGs). This intersection between finance and sustainability provides a unique lens through which we can explore both the opportunities and challenges inherent in utilizing Islamic financial tools, such as zakat (obligatory almsgiving), waqf (endowment), and sukuk (Islamic bonds), to promote environmental and social sustainability. These financial instruments not only support economic development but also encourage responsible investment practices that align with the ethical imperatives of Islamic law (Dirie et al., 2023; Faizi et al., 2024).

The concept of ISF and its relationship with sustainability is not new, but its application in the context of environmental challenges remains an underexplored area of research. Recent literature indicates a growing body of work that evaluates the potential of ISF to contribute to environmental sustainability, yet the integration of Islamic finance into mainstream sustainability practices continues to face various barriers. Studies have highlighted the positive contributions of ISF to economic and social goals, such as poverty alleviation and access to education, but its impact on environmental sustainability remains less clear (Tok & Yesuf, 2022; Widiastuti, Prasetyo, et al., 2022). Scholars have called for more research to explore how these financial instruments can be optimized to support green finance initiatives, reduce carbon footprints, and promote eco-friendly development projects. In particular, the integration of ISF with contemporary sustainability frameworks, such as the Environmental, Social, and Governance (ESG) criteria, offers a promising avenue for bridging this gap (Butt et al., 2023; Faizi et al., 2024).

The primary research problem centers on understanding how ISF can be effectively integrated into sustainability policies, particularly within the realm of environmental initiatives. While several studies have explored the role of Islamic finance in achieving SDGs, there remains a lack of empirical evidence on how Islamic finance tools can drive environmental sustainability directly. Current literature suggests that ISF has the potential to fill critical funding gaps for green projects, but the mechanisms by which these funds are allocated, managed, and monitored are not sufficiently understood (Dirie et al., 2023; Raimi & Bamiro, 2025). Scholars argue that ISF can support a range of environmental goals, from renewable energy projects to climate change adaptation strategies, but the lack of coherent policies, regulatory frameworks, and institutional capacity hinders its effectiveness (Zain et al., 2024).

The existing body of literature provides several general solutions, including the promotion of Islamic Green Sukuk, the use of waqf for sustainable land management, and the application of zakat for disaster relief and poverty reduction efforts that indirectly support environmental stability. However, these studies often fail to explore the specific challenges and limitations that Islamic financial institutions face in implementing these initiatives (Marzuki et al., 2023). Furthermore, the role of government policies in facilitating the use of ISF for environmental sustainability is underrepresented (Shahid et al., 2023). As global awareness of the urgent need for environmental action grows, policymakers must recognize the potential of Islamic finance in addressing sustainability challenges while ensuring alignment with Islamic ethical principles (Alhammadi, 2024). Regulatory frameworks that support the integration of Islamic finance with environmental goals are critical in unlocking the full potential of ISF (Tok & Yesuf, 2022).

The literature also suggests that while several studies have identified the promise of ISF for advancing sustainable practices, the specific policies and practices required to optimize its impact remain unclear (Raimi et al., 2024; Zain et al., 2024). Studies by Tok & Yesuf (2022) and Raimi & Bamiro (2025) emphasize the importance of aligning ISF with both Islamic ethical principles and contemporary sustainability frameworks, but few studies have systematically examined how these frameworks can be harmonized. Existing studies also suggest that collaboration between Islamic financial institutions, government agencies, and non-governmental organizations (NGOs) can enhance the impact of ISF, but there is a lack of empirical data on how these partnerships can be effectively structured (Dirie et al., 2023; Widiastuti, Robani, et al., 2022).

This study aims to fill this gap by providing a comprehensive review of the literature on the integration of Islamic Social Finance with environmental sustainability initiatives. By critically evaluating existing policies and practices, this research will identify the key barriers to effective integration and propose solutions for enhancing the role of ISF in supporting green finance. This study's novel contribution lies in its focus on the intersection of ISF and environmental sustainability, offering new insights into the role of Islamic financial instruments in promoting long-term ecological stability. Additionally, the study will evaluate the potential of modern technologies, such as blockchain and fintech, to enhance transparency and efficiency in ISF's implementation for sustainable development. Through this critical review, this research will not only contribute to the academic discourse on Islamic finance but also offer practical policy recommendations for stakeholders seeking to harness the potential of ISF for sustainable development.

METHODS

This study employs a narrative literature review methodology to critically analyze the integration of Islamic Social Finance (ISF) with environmental sustainability initiatives. A narrative literature review, as opposed to a systematic review, focuses on synthesizing a broad range of perspectives, trends, and debates within the academic discourse without necessarily following a rigid protocol for study selection or data extraction. The narrative approach is well-suited for providing a comprehensive understanding of the diverse ways in which ISF can contribute to sustainability, allowing for a more flexible synthesis of interdisciplinary research. This section outlines the steps followed in conducting the review, including the literature search strategy, selection criteria, and methods for synthesizing the findings.

Literature Search Strategy

The primary source for this review was the Scopus database, chosen for its comprehensive coverage of peer-reviewed journal articles, conference papers, and other scholarly content relevant to the research topic. The search

was conducted using a combination of specific keywords: "Islamic Social Finance," "sustainability," "green finance," "Islamic finance instruments," "environmental sustainability," and related terms. These keywords were selected to capture the multifaceted nature of ISF and its intersection with environmental sustainability. The search strategy also included Boolean operators to combine terms and ensure the retrieval of a wide range of relevant studies.

The inclusion criteria for the selected studies were:

1. **Relevance:** Articles must focus on the role of Islamic finance or specific Islamic financial instruments (such as zakat, waqf, and sukuk) in promoting sustainability, with an emphasis on environmental aspects.
2. **Peer-reviewed literature:** Only studies published in peer-reviewed journals or academic conferences were considered to ensure the credibility and academic rigor of the sources.
3. **Language:** Only studies published in English were included, given the global scope of the research.
4. **Date range:** The review primarily focused on studies published in the last 15 years (2010–2025) to capture the most recent advancements in the field of ISF and its role in sustainability.

Exclusion criteria included:

1. Studies that were not directly related to Islamic finance or environmental sustainability.
2. Articles that did not meet academic standards, such as those from non-peer-reviewed sources.
3. Duplicate articles or studies already included in the review.

Data Selection and Analysis

The search process yielded over 200 articles, which were first screened based on titles and abstracts. Full-text articles were then reviewed to assess their alignment with the research focus. The selection process was iterative, with articles excluded if they did not meet the inclusion criteria or if their contribution to the central research questions was deemed insufficient. Ultimately, a final set of 65 studies was included in the review.

Each selected study was analyzed for its relevance to the research questions, and key information such as the study's methodology, findings, and theoretical frameworks was extracted. The studies were categorized based on thematic areas, such as the role of zakat in sustainability, the impact of sukuk on green projects, and the integration of waqf with environmental goals. This thematic categorization allowed for a systematic comparison of the findings across studies, revealing common trends, gaps in the literature, and areas requiring further exploration.

Synthesis of Findings

The synthesis of findings was performed by organizing the literature into key thematic categories. This approach helped identify recurring themes and insights, as well as gaps in the existing body of research. Several key topics emerged from the analysis:

1. **Role of Islamic Finance Instruments in Sustainability:** A significant portion of the literature discusses how Islamic finance instruments, such as zakat, waqf, and sukuk, are being used to fund sustainability projects, particularly in the areas of renewable energy, poverty alleviation, and climate change adaptation (Dirie et al., 2023; Faizi et al., 2024). These instruments are recognized for their potential to generate positive social and environmental outcomes, but challenges remain in ensuring their scalability and effectiveness.
2. **Integration of ESG Principles:** A notable trend in the literature is the integration of Environmental, Social, and Governance (ESG) principles into Islamic finance. Studies suggest that aligning Islamic financial instruments with ESG criteria can enhance their contribution to sustainable development goals (SDGs), particularly in terms of promoting transparency, accountability, and ethical governance (Zain et al., 2024; Raimi & Bamiro, 2025). However, the operationalization of these principles within Islamic financial institutions remains an area of ongoing research.

3. **Challenges and Barriers:** Despite the promising potential of ISF, several studies highlight significant barriers to its effective integration with sustainability efforts. These include insufficient regulatory frameworks, lack of awareness among stakeholders, and the need for greater capacity building in Islamic finance institutions (Shahid et al., 2023; Tok et al., 2022). Addressing these barriers is essential for unlocking the full potential of ISF in advancing environmental sustainability.
4. **Emerging Technological Innovations:** Several recent studies have explored the role of technology in enhancing the transparency and efficiency of ISF. Technologies such as blockchain and fintech are being investigated for their potential to streamline processes, reduce transaction costs, and increase stakeholder engagement in sustainability projects (Kunhibava et al., 2024). These technological innovations may play a critical role in overcoming some of the challenges associated with ISF implementation.

Methodological Considerations

The narrative literature review methodology allows for a broad synthesis of findings, but it is important to note the limitations of this approach. Unlike systematic reviews, which employ a rigid set of criteria for study inclusion and data extraction, narrative reviews rely on the subjective judgment of the researcher. This introduces the potential for bias in selecting and interpreting studies. To mitigate this, the review process was designed to be transparent, with clear inclusion and exclusion criteria, and systematic in terms of thematic categorization and analysis.

While the narrative review approach provides valuable insights into the overarching trends and gaps in the literature, it is not exhaustive. The review highlights the need for future studies that employ more rigorous methodologies, such as empirical research and quantitative analyses, to further validate the potential of ISF to support environmental sustainability.

RESULTS AND DISCUSSION

This section summarizes the key findings from the reviewed literature on the integration of Islamic Social Finance (ISF) with environmental sustainability. The literature reveals significant applications of ISF tools in funding sustainable projects, along with the challenges and gaps that still exist in the effective implementation of these tools. Moreover, the review highlights regional variations in the application of ISF and the emerging trends in utilizing Islamic financial instruments for sustainability purposes.

Current Applications of ISF for Sustainability

The application of Islamic finance tools such as zakat, waqf, and sukuk in supporting environmental sustainability has been widely explored in academic literature, demonstrating the growing potential of these instruments to address sustainability challenges. These tools, traditionally seen as instruments for social welfare, have been increasingly integrated into environmental initiatives, offering a novel and ethically grounded approach to mobilizing resources for projects that align with sustainability goals. As global awareness of the environmental crisis increases, Islamic finance is emerging as an important source of funding for sustainable development, particularly in the areas of renewable energy, climate change mitigation, and environmental conservation.

1. Islamic Green Sukuk

Islamic Green Sukuk have gained significant attention as one of the most promising tools for financing environmentally sustainable projects within the framework of Islamic finance. Green Sukuk are structured to meet Shariah principles while targeting projects that contribute positively to environmental goals. These sukuk serve as debt instruments issued to raise capital for specific environmental initiatives, such as renewable energy projects, sustainable agriculture, and waste management systems. The issuance of Green Sukuk allows investors to participate in environmentally impactful projects, while adhering to the ethical guidelines prescribed by Islamic finance.

In Indonesia, the government has issued Islamic Green Sukuk to finance a wide range of green projects, including the development of renewable energy infrastructure and sustainable infrastructure in rural areas. The use of Green Sukuk in Indonesia showcases the capacity of Islamic finance to channel significant capital towards environmentally sustainable initiatives, especially in emerging economies (Faizi et al., 2024; Yusuf & Maryam, 2024). Similarly, in the United Arab Emirates, Green Sukuk have been used to fund large-scale solar energy projects, including the Shams 1 solar power plant, one of the largest concentrated solar power plants in the world. These projects not only contribute to the global transition to clean energy but also demonstrate the practical application of Islamic finance in addressing urgent environmental challenges. Through Green Sukuk, Islamic finance has been able to leverage capital markets to fund projects that meet both environmental sustainability goals and Shariah compliance, demonstrating the scalability and flexibility of this tool (Butt et al., 2023; Raimi & Bamiro, 2025)

Green Sukuk is also notable for its dual impact: it contributes to the development of sustainable infrastructure while promoting ethical investment practices. As investors increasingly seek sustainable investment opportunities that align with their environmental values, Green Sukuk provide an avenue for financing that meets both financial and social objectives. This innovative financial instrument is an essential part of the broader trend of integrating ESG (Environmental, Social, and Governance) criteria into Islamic finance, signaling a significant shift toward socially responsible and environmentally conscious investing within the Islamic financial sector.

2. Islamic Microfinance

Islamic microfinance has emerged as a key tool for funding sustainable agricultural and environmental projects, particularly in regions with limited access to conventional financial systems. Islamic microfinance institutions (IMFIs) offer small loans to low-income individuals or small businesses, particularly in rural areas, to help them adopt sustainable agricultural practices, renewable energy solutions, and environmentally friendly technologies. These microfinance institutions operate in accordance with Islamic principles, offering financing without interest, ensuring that loans are ethically structured.

In Uganda, for example, Islamic microfinance has been instrumental in supporting smallholder farmers who face challenges related to climate change. Through tailored financial products, Islamic microfinance institutions have enabled these farmers to adopt climate-resilient agricultural practices, such as drought-resistant crops, organic farming techniques, and solar-powered irrigation systems. By providing affordable financing and promoting environmentally sustainable practices, Islamic microfinance has helped these communities reduce their environmental footprint while improving their economic resilience (Azman et al., 2021; Danlami et al., 2023)

Similarly, in rural areas of Southeast Asia, Islamic microfinance has enabled local communities to invest in renewable energy technologies, such as solar panels and biogas systems, that reduce their dependence on traditional, environmentally harmful energy sources like firewood. These investments not only contribute to reducing carbon emissions but also improve the standard of living for families who previously lacked access to electricity. The flexibility of Islamic microfinance allows for the development of financial products that cater specifically to the needs of rural populations, making it a powerful tool for fostering sustainability in areas where access to conventional banking services is limited (Shahid et al., 2023)

The potential of Islamic microfinance to support sustainable environmental practices is vast, as it offers a scalable and inclusive financing model that addresses both social and environmental challenges. By facilitating access to finance for sustainable agriculture and renewable energy projects, Islamic microfinance plays a pivotal role in promoting green economic growth in developing countries. The success of these microfinance initiatives underscores the importance of expanding their reach and impact, as they provide an accessible and Shariah-compliant alternative to conventional financial systems.

3. Zakat and Waqf

Zakat and waqf, two of the most well-known instruments in Islamic finance, have also found applications in funding environmental initiatives. Zakat, the obligatory almsgiving in Islam, is typically allocated to poverty alleviation, healthcare, and education, but in recent years, there has been a growing recognition of its potential to address environmental issues. Zakat funds have been directed towards projects that contribute to environmental

sustainability, such as reforestation, water conservation, and disaster relief efforts in areas affected by climate change. For example, zakat funds have been used to support large-scale reforestation programs aimed at combating deforestation and mitigating the effects of climate change in countries such as Indonesia and Malaysia. These projects help restore natural ecosystems, increase carbon sequestration, and improve biodiversity, while also addressing the social needs of communities affected by environmental degradation (Faizi et al., 2024; Tok et al., 2022).

Waqf, an Islamic endowment fund, has also been effectively utilized to support environmental sustainability initiatives. Historically, waqf has been used to fund public goods, such as schools, hospitals, and mosques. However, in recent years, the scope of waqf has expanded to include land conservation, green public spaces, and sustainable urban development. In several countries, waqf funds have been allocated to the development and maintenance of parks, nature reserves, and urban green spaces, all of which contribute to environmental preservation and provide ecological benefits to communities. For example, waqf-funded projects have supported the creation of urban green spaces in major cities like Cairo and Istanbul, helping to mitigate the effects of urban sprawl and improve the quality of life for city residents (Dirie et al., 2023; Widiastuti, Prasetyo, et al., 2022)

The integration of zakat and waqf into sustainable development projects demonstrates the dual benefit of these instruments: they not only provide financial support for environmental initiatives but also address the social welfare needs of vulnerable populations. By channeling funds from zakat and waqf towards environmental sustainability projects, Islamic finance institutions can create a virtuous cycle in which social, economic, and environmental objectives are achieved simultaneously. This approach ensures that sustainability efforts are not just about preserving the environment but also improving the livelihoods of communities that are most vulnerable to environmental risks.

The integration of zakat, waqf, and sukuk into environmental sustainability efforts offers a powerful mechanism for addressing global environmental challenges. These Islamic finance tools provide a unique opportunity to raise capital for green projects while adhering to ethical principles. As the demand for sustainable investment grows, Islamic finance can play a critical role in mobilizing resources for environmental initiatives that contribute to both social welfare and ecological preservation.

Challenges and Gaps in Integrating ISF with Sustainability

Despite the promising potential of Islamic Social Finance (ISF) in supporting environmental sustainability, several challenges hinder its broader application. One of the main obstacles is the lack of clear and consistent regulatory frameworks that define how Islamic financial products can be applied to sustainable development. This regulatory ambiguity often leads to confusion and inconsistency in the way ISF tools are implemented. Such gaps in regulation create difficulties in ensuring that funds raised through instruments like Islamic Green Sukuk are used for their intended purpose—environmentally beneficial projects. A lack of robust regulation can also discourage potential investors due to concerns about the transparency and accountability of these funds, leading to inefficiencies in mobilizing capital for green initiatives (Raimi et al., 2024; Zain et al., 2024)

The absence of standardized regulatory frameworks can lead to inefficiencies and conflicts in terms of eligibility for funding. For example, some Islamic finance institutions may have differing interpretations of Shariah law, leading to inconsistent standards for what qualifies as a "green" or "sustainable" project. This inconsistency complicates the development of universally accepted financial products like Green Sukuk, as there is no single guideline or global consensus on what constitutes an eligible environmentally sustainable initiative (Raimi & Bamiro, 2025) Thus, the issue of regulatory fragmentation remains a critical barrier, requiring coordinated policy efforts at both national and international levels.

Another significant challenge is the limited awareness and understanding of how ISF mechanisms, such as zakat, waqf, and Islamic microfinance, can be effectively utilized for sustainability purposes. While there is general recognition of the potential for these financial tools to support green initiatives, many stakeholders—including Islamic financial institutions, entrepreneurs, and even government bodies—lack comprehensive knowledge of how to deploy these resources for environmental causes. This gap in knowledge has led to the underutilization of ISF instruments in funding sustainability projects, resulting in missed opportunities for environmental impact. Many institutions lack the necessary expertise to assess and manage sustainability projects, hindering their ability to structure financial products that align with green initiatives (Shahid et al., 2023) Moreover, Islamic finance

professionals may not fully grasp the intersections between environmental sustainability and Islamic ethical frameworks, further complicating the effective use of these financial products.

The underutilization of ISF tools, particularly zakat and waqf, is a prime example of this challenge. While zakat has the potential to be allocated toward funding environmental initiatives, such as reforestation or water conservation, it is often focused primarily on poverty alleviation. Similarly, waqf, traditionally used for social welfare projects, has not been widely deployed for environmental purposes. As noted by Dirie et al. (2023) the potential for using waqf to fund land conservation or green public spaces remains largely untapped. This underutilization is not due to a lack of potential, but rather a gap in understanding and awareness among key stakeholders regarding how these instruments can be leveraged for sustainability.

Moreover, the integration of Islamic ethical frameworks, particularly Maqasid al-Shari'ah, with sustainability goals presents a further challenge. Although Maqasid al-Shari'ah provides an ethical foundation that emphasizes harm reduction, justice, and the welfare of humanity, its practical implementation within financial products designed for sustainability is still limited. There is a disconnect between the theoretical alignment of Islamic finance with sustainability and the practical application of these principles in financial products (Khattak, 2018; Soualhi & Bouhraouia, 2018). This gap undermines the full potential of ISF, as ethical considerations often take a backseat to financial considerations. For ISF to have a significant impact on sustainability, Islamic financial products must be designed in a way that prioritizes long-term environmental and social outcomes, rather than short-term financial returns (Al-Isawi, 2024). The lack of a clear mechanism to incorporate Maqasid al-Shari'ah principles into the assessment of environmental impact means that many projects may miss the opportunity to fully align with both Islamic ethical principles and sustainability objectives.

Another barrier to the integration of ISF with sustainability is the difficulty in aligning financial models with sustainability goals. Many conventional financial models prioritize short-term profits, often at the expense of long-term sustainability. This is a major challenge in Islamic finance as well, as some financial institutions continue to focus on profit maximization, which may not align with the goals of environmental sustainability. According to Zain et al. (2024), Islamic finance institutions need to reconsider their financial models and give greater priority to social and environmental factors, which are often sidelined in favor of more immediate financial returns. This reluctance to shift toward more sustainable models of investment can hinder the widespread adoption of ISF for environmental causes.

Capacity and institutional limitations within Islamic financial institutions also present a significant challenge. Many institutions face constraints in terms of resources, expertise, and infrastructure to adequately evaluate and finance sustainability projects. Dai (2024) emphasizes that a lack of institutional capacity to assess the environmental and social impacts of projects prevents many Islamic financial institutions from contributing effectively to sustainability goals. Without the necessary training and capacity-building initiatives, Islamic finance institutions will continue to struggle with integrating sustainability into their financial models. Thus, enhancing the capacity of institutions to manage sustainability initiatives and develop relevant financial products is crucial for overcoming this barrier.

Finally, the lack of market demand for green financial products further complicates the widespread adoption of ISF for environmental sustainability. In many regions, there is still limited demand for Islamic financial products that prioritize environmental sustainability, such as Green Sukuk. This lack of market demand, coupled with the economic instability in certain regions, often leads Islamic finance institutions to focus on more traditional financial products, rather than exploring innovative solutions that target sustainability. Without a strong market signal from investors and consumers, Islamic finance institutions may be reluctant to invest in sustainability-focused products (Faisal et al., 2023; Husain et al., 2024).

The integration of Islamic Social Finance with sustainability efforts faces multiple challenges, ranging from regulatory gaps and limited awareness to institutional capacity issues and market demand concerns. These barriers must be addressed through coordinated efforts from Islamic finance institutions, governments, and other stakeholders to ensure that ISF can contribute effectively to environmental sustainability. By developing clearer regulatory frameworks, enhancing awareness and education, and integrating ethical and sustainability considerations into financial models, ISF can play a pivotal role in addressing global environmental challenges.

The next step is to foster a more robust and supportive ecosystem for ISF that encourages collaboration, innovation, and the development of new financial products tailored to sustainability objectives.

Regional Insights

The application of Islamic Social Finance (ISF) in sustainability projects varies significantly across different regions, reflecting the diverse economic, social, and environmental challenges faced by each area. As Islamic finance continues to expand globally, its role in promoting sustainability, particularly in developing regions, is becoming increasingly significant. In this context, the experience of Southeast Asia and the Gulf Cooperation Council (GCC) countries provides important insights into how ISF tools are being utilized to fund environmentally sustainable initiatives and contribute to the achievement of the United Nations Sustainable Development Goals (SDGs).

In Southeast Asia, Islamic finance has made significant strides in integrating sustainability considerations into its financial products. Indonesia, in particular, has emerged as a leader in using Islamic finance to fund renewable energy projects and other environmentally sustainable initiatives. The issuance of Islamic Green Sukuk in Indonesia has been one of the most successful applications of Islamic finance for sustainability. These sukuk are specifically designed to finance projects that meet both environmental and Shariah-compliant standards, such as clean energy and eco-friendly infrastructure development. One of the most notable examples is the issuance of Indonesia's Green Sukuk in 2018, which successfully raised capital to fund renewable energy projects, including hydropower plants and solar energy projects (Faizi et al., 2024; Raimi et al., 2024). This model has proven to be highly effective in mobilizing private capital for sustainable development while ensuring that investments align with Islamic ethical principles.

Similarly, in Malaysia, Socially Responsible Investment (SRI) Sukuk has been used to address both social and environmental challenges, making it another key example of Islamic finance's contribution to sustainability. Malaysia's commitment to sustainable development is reflected in its issuance of SRI Sukuk, which aims to support projects that generate positive social and environmental outcomes. These sukuk have been used to fund projects such as the development of sustainable infrastructure, environmental conservation, and green technology innovation (Mahomed & Mahbot, 2024; Shukri et al., 2019). The SRI Sukuk market in Malaysia has grown substantially in recent years, with Islamic banks playing a critical role in structuring these sukuk and ensuring they adhere to both Islamic principles and ESG criteria. This growing adoption of green and socially responsible finance in Malaysia underscores the country's leadership in integrating Islamic finance with sustainability goals.

In both Indonesia and Malaysia, the application of ISF tools such as Green Sukuk and SRI Sukuk highlights the flexibility of Islamic finance in addressing region-specific sustainability needs. In Indonesia, the focus has been on funding large-scale renewable energy projects, while in Malaysia, SRI Sukuk has been used to support a broader range of sustainability initiatives, including social development and green infrastructure projects. These differences in application reflect the varying environmental and socio-economic challenges faced by each country. However, both countries have demonstrated that Islamic finance can be effectively leveraged to support sustainable development goals, providing a model for other countries in the region.

In the Gulf Cooperation Council (GCC) countries, Islamic finance has been increasingly used to integrate Environmental, Social, and Governance (ESG) principles into its operational frameworks. GCC countries, such as the United Arab Emirates (UAE), Saudi Arabia, and Qatar, have made significant progress in incorporating ESG considerations into Islamic finance products. This is particularly evident in the development of green and sustainable sukuk, as well as the growing interest in Islamic social impact investing. Islamic banks in the GCC have been at the forefront of developing financing mechanisms that not only support environmentally sustainable projects but also ensure these projects adhere to Islamic ethical standards.

The UAE, for example, has issued Green Sukuk to fund renewable energy projects, including large solar power plants, while Saudi Arabia has incorporated sustainability criteria into its Vision 2030 development plan, which includes a strong emphasis on green finance and climate change mitigation (Benslim & Bouchoucha, 2023). The adoption of ESG criteria in these countries is helping to shape the future of Islamic finance in the region, making it an important player in global sustainability efforts. This growing recognition of the importance of environmental sustainability within the Islamic finance sector reflects a broader trend toward integrating social

responsibility and environmental stewardship into business practices across the GCC (Faizi et al., 2024; Raimi & Bamiro, 2025).

Islamic banks in the GCC have developed a range of financial products designed to address both social and environmental challenges. These include green bonds, Islamic green sukuk, and ESG-focused investment funds, which provide investors with opportunities to support projects that contribute to environmental sustainability, renewable energy, and climate change mitigation. These products not only promote sustainability but also align with Islamic values, ensuring that investors can contribute to the global sustainability agenda while adhering to ethical investment practices (Raimi et al., 2024; Zain et al., 2024). Moreover, the increasing integration of ESG principles into Islamic finance products in the GCC is helping to enhance the reputation of Islamic finance in the global market, particularly among socially conscious investors.

The growing adoption of sustainability principles in Islamic finance in the GCC is not just limited to financial products but extends to the broader policy and regulatory frameworks that govern the Islamic financial sector. Governments in the GCC are increasingly introducing regulations and incentives to encourage the growth of green finance, with a focus on projects that align with both Islamic values and global sustainability goals. For example, Qatar's National Vision 2030 includes a strong focus on sustainable development, with specific targets related to environmental sustainability and green finance. Similarly, the UAE has established a comprehensive regulatory framework for green sukuk, providing investors with clear guidelines on the types of projects that qualify for green financing (Butt et al., 2023).

The experiences of Southeast Asia and the GCC countries provide valuable lessons for integrating Islamic finance with environmental sustainability. While the application of ISF in sustainability projects varies across regions, the common thread is the growing recognition of the potential for Islamic finance to support sustainable development. The successful issuance of Green Sukuk in Indonesia and Malaysia, as well as the adoption of ESG principles in the GCC, demonstrates the flexibility of Islamic finance tools in addressing regional sustainability challenges. These regional examples highlight the importance of developing tailored financial products that align with both Islamic ethical principles and the unique sustainability needs of each region. As Islamic finance continues to evolve, these regional experiences will provide valuable insights for other parts of the world seeking to integrate Islamic finance with global sustainability efforts.

Emerging Trends and Innovations

Emerging trends in Islamic finance are increasingly indicating that technology and innovation will be crucial in advancing Islamic Social Finance (ISF) to contribute meaningfully to sustainability. The growing interest in digitalization and the adoption of new technologies are reshaping the landscape of financial services globally, and Islamic finance is no exception. In particular, the integration of blockchain technology within the Islamic finance sector is being explored as a potential solution to enhance transparency, accountability, and efficiency in financing sustainable projects. Blockchain's immutable ledger system offers a new level of traceability in the flow of funds, making it easier to track investments and monitor their use throughout their lifecycle.

Blockchain technology has the potential to play a significant role in addressing some of the key challenges faced by ISF, such as the lack of transparency and the risk of misallocation of funds. By providing an immutable record of transactions, blockchain ensures that all stakeholders—whether investors, project developers, or regulators—can verify how funds are being spent and whether they are being directed toward the intended sustainable goals. For instance, in the context of Green Sukuk, blockchain could be employed to verify that the proceeds are being utilized for renewable energy projects or other green initiatives, thereby increasing trust among investors and enhancing the credibility of the Islamic finance sector (Faizi et al., 2024; Raimi et al., 2024).

The use of blockchain can also streamline the process of fund distribution and improve operational efficiency. With smart contracts, which are self-executing contracts with the terms of the agreement directly written into code, blockchain enables automatic execution of contracts once predefined conditions are met. In the case of green financing, smart contracts can ensure that funds are released to project developers only when specific environmental milestones are achieved, such as the completion of a renewable energy plant or the installation of green infrastructure. This not only minimizes delays and administrative costs but also ensures that sustainability

projects progress as planned, aligned with both financial and environmental goals (Alaeddin et al., 2021; Dahdal et al., 2022; Kunhibava et al., 2024).

Beyond blockchain, the rise of fintech (financial technology) solutions within Islamic finance is another trend that could significantly expand access to sustainable financing. Fintech solutions have the potential to address the challenges of financial inclusion, especially in underserved and unbanked communities, by providing accessible, low-cost financial services. In many developing countries, particularly in regions with large Muslim populations, conventional banking infrastructure is limited, preventing individuals and businesses from accessing the financial services they need to invest in sustainable practices. Islamic fintech platforms can bridge this gap by offering Shariah-compliant financing products, such as microfinance loans, crowdfunding, and peer-to-peer lending, that enable individuals and small businesses to access capital for environmentally sustainable projects.

For instance, Islamic crowdfunding platforms are gaining popularity as a way to pool small investments from a wide range of individuals to fund green projects. These platforms allow people who might not typically have the means to invest in large-scale projects to participate in funding renewable energy, water conservation, and other environmental initiatives. This democratization of investment is a powerful tool for fostering sustainable development, particularly in regions where access to traditional financial services is limited (Dirie et al., 2023; Shahid et al., 2023). Additionally, Islamic fintech solutions can help reduce transaction costs, which is crucial for projects with smaller investment amounts, such as micro-solar installations or low-income housing with energy-efficient features.

Furthermore, fintech platforms can enable a broader range of people to become involved in socially responsible and environmentally sustainable investments. By providing easy-to-use platforms for direct investment in green projects, fintech can encourage participation from the younger generation, who are often more attuned to sustainability issues and are seeking opportunities to invest in projects that align with their values (Jibo, 2025; Yusuf & Maryam, 2024). This trend also aligns with the growing interest in sustainable finance globally, as millennials and Gen Z are increasingly seeking to make investments that not only offer financial returns but also contribute to positive social and environmental outcomes. Islamic fintech platforms are uniquely positioned to capitalize on this trend by offering sustainable financial products that adhere to Islamic ethical principles, creating an inclusive and accessible route for sustainable investments.

Moreover, one of the most exciting innovations in the field of ISF is the growing concept of Islamic social impact bonds (SIBs). These bonds are a new form of financing that is gaining traction as a mechanism for funding projects that yield both social and environmental benefits. Similar to conventional social impact bonds, SIBs are designed to raise capital for projects that aim to solve social or environmental challenges, but they are structured in a way that aligns with the ethical guidelines of Islamic finance. These bonds combine the traditional social impact model with the principles of Islamic finance, offering a unique opportunity to mobilize private capital for sustainable development (Raimi & Bamiro, 2025; Zain et al., 2024).

SIBs could prove to be an essential tool for funding projects that directly contribute to the achievement of the United Nations Sustainable Development Goals (SDGs). By offering financial returns based on the achievement of specific social or environmental outcomes, such as reducing carbon emissions or increasing access to clean water, SIBs create an innovative link between financial returns and positive social or environmental impact. The Islamic finance sector's interest in these bonds stems from their ability to combine the ethical values of Islamic finance with the growing demand for socially responsible investment opportunities. Moreover, SIBs offer an opportunity to involve private investors in financing sustainable development, allowing governments to focus their resources on other critical areas while ensuring that sustainability initiatives are adequately funded ((Faizi et al., 2024; Raimi et al., 2024)

The rise of social impact bonds also signals a shift in how Islamic finance can address the challenges of financing long-term sustainability goals. Traditional financing models often prioritize short-term financial returns, but SIBs allow investors to support projects with longer timelines that have measurable social and environmental outcomes. As these bonds gain traction within the Islamic finance sector, they could become a vital tool for achieving both environmental sustainability and social welfare, particularly in emerging economies where sustainable development funding is often scarce (Ariff, 2019; Hasan et al., 2021; Ibrahim, 2015).

The integration of blockchain technology, fintech solutions, and Islamic social impact bonds into the Islamic finance sector represents a significant step forward in promoting sustainable development. These innovations not only enhance transparency, efficiency, and access to capital but also align Islamic finance with the growing global demand for sustainable investment opportunities. As these technologies continue to evolve, they have the potential to transform how Islamic finance contributes to addressing pressing environmental and social challenges, paving the way for a more inclusive and sustainable financial future.

Impact of ISF on Policy and Practice

The potential of ISF tools, such as zakat, waqf, and sukuk, to contribute to environmental sustainability has been well documented in the literature, but several barriers hinder their broader application. A significant challenge is the lack of coherent and standardized regulatory frameworks that guide the use of Islamic financial products in sustainable development. Faizi et al. (2024) assert that the success of Islamic Green Sukuk, for instance, heavily relies on clear regulatory oversight to ensure that funds are allocated to projects that meet both Shariah and environmental standards. Without robust regulatory environments, the allocation of funds may be inconsistent, leading to inefficiencies and a lack of transparency in how ISF tools are utilized (Shahid et al., 2023). This underscores the need for regulatory frameworks that standardize the application of Islamic finance in funding sustainability projects, particularly in renewable energy and waste management sectors (Raimi & Bamiro, 2025; Tok & Yesuf, 2022).

Furthermore, integrating Maqasid al-Shari'ah with sustainability goals is a central theoretical concern in ISF. Maqasid al-Shari'ah, which focuses on the higher objectives of Islamic law—such as justice, equity, and harm reduction—could provide a robust framework for advancing environmental sustainability. However, as Raimi & Bamiro (2025) suggest, the practical application of these Islamic ethical principles to modern sustainability challenges remains underdeveloped. Integrating Maqasid al-Shari'ah with contemporary sustainability frameworks could provide a more comprehensive approach to environmental issues, ensuring alignment between Islamic financial tools and global sustainability targets. However, this integration is not without its challenges, as it requires substantial policy development to ensure that Islamic finance institutions prioritize both social justice and environmental preservation.

CONCLUSION

This study critically explored the intersection of Islamic Social Finance (ISF) and environmental sustainability, identifying both opportunities and challenges in utilizing Islamic financial tools, such as zakat, waqf, and sukuk, for sustainable development. The main findings suggest that while ISF holds significant potential for funding environmentally sustainable projects, barriers such as the lack of standardized regulatory frameworks, insufficient awareness, and challenges in the practical application of Maqasid al-Shari'ah principles hinder its broader integration with sustainability goals. The discussion highlights the need for clearer policies and regulatory guidance to ensure effective use of ISF tools in sustainability initiatives. The integration of Maqasid al-Shari'ah with modern sustainability frameworks was identified as a key theoretical opportunity to align Islamic finance with global environmental goals.

This research contributes to the existing body of knowledge by providing a comprehensive review of ISF's role in sustainable development, offering insights into the regulatory and operational challenges that need to be addressed. By synthesizing current literature, it adds depth to the understanding of how Islamic finance can support green finance and sustainable development. The study also lays the foundation for future research into empirical evaluations of ISF's impact on sustainability outcomes and the integration of innovative technologies like blockchain in Islamic finance.

While this study provides valuable insights into the role of ISF in environmental sustainability, it has several limitations. First, the literature review relied on secondary sources, which means the findings are limited by the scope and quality of existing research. Many studies included were theoretical or focused on specific case studies, limiting the ability to generalize findings across diverse regions and contexts. Second, the study did not include primary empirical data or firsthand analysis of real-world ISF projects, which would have provided more concrete evidence of the effectiveness of these financial instruments in achieving sustainability goals. Furthermore, the study primarily focused on Islamic finance tools such as sukuk, zakat, and waqf, with less attention given to the role of other Islamic finance mechanisms that may also contribute to sustainability efforts, such as Islamic

insurance (takaful) or ethical investment funds. This narrow focus limits the broader applicability of the findings to the full spectrum of Islamic financial products.

Lastly, the study's geographic scope was mainly limited to Southeast Asia and the Middle East, where ISF has been most prominently applied. While these regions provide valuable insights, future studies should expand the geographic scope to include regions in Africa and Latin America, where Islamic finance may have untapped potential for contributing to sustainability.

Future research should explore empirical studies to evaluate the real-world impact of ISF tools on environmental sustainability. Although the theoretical alignment between ISF and sustainability is well established, there remains a gap in terms of practical application and measurable outcomes. Researchers should examine case studies of specific ISF-funded sustainability projects, particularly in developing countries, to assess their success and identify key challenges. Studies that incorporate field data, such as financial performance metrics and environmental impact assessments, would provide more robust insights into the effectiveness of ISF instruments like Green Sukuk, zakat, and waqf.

Lastly, future research should investigate the potential of Islamic finance to contribute to climate change mitigation and adaptation efforts, particularly in regions vulnerable to environmental risks. The integration of Islamic finance with global sustainability frameworks, such as the Paris Agreement and the SDGs, is an important area for further inquiry to ensure that ISF can effectively contribute to long-term global sustainability goals.

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