

## **The economic implications of integrating green accounting practices in Middle Eastern financial institutions: Challenges and opportunities**

Hanan Fouad Mahmoud Ewis<sup>1</sup>, Samar Atef Ghanem<sup>2\*</sup>

<sup>1</sup>Management and science university Malaysia.

<sup>2</sup>Economics and Business Instructor, Belarus State Economic University, Belarus.; samar-gh@hotmail.com (S.A.G.).

**Abstract:** This paper presents a discussion on the economic consequences of integrating green accounting practices in financial institutions within the Middle Eastern region. Green accounting is increasingly regarded as a tool for sustainability and environmental risk management, but so far its implementation in the region remains very inconsistent. Key challenges identified that hinder the full implementation of green accounting practices include financial constraints, a lack of skilled professionals, and regulatory uncertainties. At the same time, it presents certain excellent opportunities that will include an enhanced corporate reputation, easy access to green financing, and better compliance with future environmental regulations, thereby creating long-term economic benefits. The study also identifies increased awareness, training programs, clearer regulatory frameworks, and technological solutions as necessary for facilitating the widespread adoption of green accounting. Addressing these challenges and capitalizing on the related opportunities will provide financial institutions in the Middle East with the chance to improve their financial performance, gain access to eco-conscious investors, and achieve long-term organizational sustainability. The findings provide useful insights for policymakers, financial institutions, and sustainability experts on how green accounting can help attain economic growth and sustainability in the region.

**Keywords:** *Economic implications, Environmental risk management, Financial performance, Financial institutions, Green financing, Green accounting, Institutional adoption, Middle East, Regulatory challenges, Sustainability, Sustainable development, Training programs, Technology solutions.*

### **1. Introduction**

With the environment now considered a priority topic in international conversation, financial institutions are more often realizing the economic relevance of applying green accounting practices to their daily operations. Green accounting, in the context of this paper, is defined as the integration of natural capital maintenance and environmental costs into financial decision-making, increased transparency, and ultimately business sustainability [1]. The purpose of this study is to examine the financial implications of using green accounting techniques in Middle Eastern financial institutions in an attempt to explain the process of implementation: challenges and opportunities.

### **2. Literature Review**

Recently, with sustainability turning into the call of business strategy, the adaptation of green accounting to financial practices has slowly gained momentum in financial institutions. Green accounting is an interdisciplinary approach applied to contextualize and quantify the environmental impacts of corporate activities within established financial management frameworks. This becomes particularly important in the perspective of attempts by financial institutions and their stakeholders in attempting to respond to the challenges from environmental risks, sustainability regulations, and improved investor and consumer demands for corporate transparency and accountability. The section

will hence critically review the literature on green accounting, with special focus on its adoption, economic implications, and challenges within the Middle Eastern financial sector.

### *2.1. Concept of Green Accounting*

Green accounting is an accounting framework that incorporates environmental concerns into financial reporting and decision-making, having substantial ramifications on the economy for both business and financial institutions. It is also known as environmental or sustainable accounting, extending beyond the traditional financial accounting realm, which primarily focuses on monetary transactions and profitability, to encompass the costs and benefits related to resource consumption, waste management, carbon emissions, and environmental conservation [1]. Green accounting, by giving a fuller picture of the financial and environmental performance of an organization, enhances transparency and leads to better decision-making by stakeholders.

A basic economic principle of green accounting is that environmental costs represent some amount related to an entity's assets and liabilities. The costs can be direct, entailing investments in pollution control and conformation to the regulatory environment, or indirect, involving long-term damage to the environment as a result of business practices that are not sustainable; Bebbington & Larrinaga, 2014. In addition, under green accounting, there is emphasis on the disclosure of the environmental liabilities, including the costs of environmental remediation and compliance with laws on sustainability.

From an economic point of view, integration of green accounting practices assists financial institutions with the valuation and management of environmental risks, attainment of sustainability objectives, and enhancement of corporate responsibility. Consequently, full disclosure by financial institutions in the Middle East can lead to better strategic decisions, a strengthening of investor confidence, and a positioning for long-term financial sustainability within changing regulatory and market environments [2].

### *2.2. Green Accounting in Financial Institutions*

By the same token, financial institutions also have a very important part to play in determining sustainable economic growth. As critical capital allocators in economies, disclosure based on green accounting could also have an impact on corporate behavior and environmental performance. By incorporating environmental concerns into decision-making processes, financial institutions in the Middle East will thus be able to evaluate the economic impact of the sustainability developments and manage the environmental risk profiles related to the sustainability initiatives more effectively to ultimately deliver improved long-term financial performance [3].

The most significant economic benefit of green accounting within financial institutions is the incorporation of environmental performance indicators in financial reporting. This involves the disclosure of carbon footprint information, energy consumption, water use, and waste management data that could impact investment attractiveness and costs of compliance with regulations. In addition, green accounting promotes investment strategies that are sustainable by integrating ESG criteria into financial analysis, thereby supporting institutions in the identification of economically viable and environmentally responsible investment opportunities [4].

Besides, green accounting makes financial institutions take a critical view of the environmental risks related to their lending and investing operations. It thus helps the institutions avoid the financing of projects or businesses that might lead to severe environmental and financial liabilities resulting from, for instance, deforestation, excess carbon emissions, or financial penalties by regulators. Ioannou and Serafeim [5] added that by adopting green accountancy practices, the financial institution is better positioned to identify both sustainability risks and opportunities, hence improved financial stability, regulatory compliance, and competitiveness in the financial industry within the Middle East.

### 2.3. Regulatory Frameworks and Standards for Green Accounting

These factors include the regulatory environment, among other major causes, which is influencing the use of green accounting practices among financial institutions with consequential economic implications. The trend for environmental regulations around the world is toward more strictness as governments and international organizations realize the pressing need to curb climate change and sustainability issues. Several countries already have regulations binding financial institutions to disclose their impacts on the natural environment and include sustainability considerations when reporting on their finances. It includes, for example, the need for large-scale companies, even financial institutions included, to reveal certain information, especially on their environmental and social features [6].

However, the regulatory framework of green accounting remains underdeveloped in MENA. Although some countries, such as the UAE and Saudi Arabia, have taken impressive steps toward the introduction of green finance initiatives and ESG reporting guidelines, no regional consensus yet exists on laws and regulations concerning green accounting. Such inconsistency in regulation challenges the financial institutions that operate across a number of countries in the Middle East because they have to deal with different standards of reporting and compliance requirements.

Despite the absence of a common framework, some national sustainability initiatives have been established. The UAE, for example, has introduced the UAE Green Agenda 2030 and the ESG reporting guidelines of the Dubai Financial Market, encouraging financial institutions to integrate sustainability into their operations [7]. Similarly, Saudi Arabia's Vision 2030 emphasizes green finance and environmental sustainability. But because the regional regulatory environment is nonexistent, financial institutions still cannot start trying to standardize their environmental reporting and attempt compliance with the minimum international best practice. Alshuwaikhat and Mohammed [8] add on that in fact, this uniformity in terms of a green accounting framework may be viewed to be problematic when it comes to the pursuit by financial institutions, in balancing with regulatory requirements both economic efficiency as well as globally expected sustainability imperatives.

### 2.4. Barriers to Green Accounting Adoption in the Middle East

Notwithstanding the rising awareness of environmental and social sustainability, various deep-seated structural, economic, and regulatory challenges confront the smooth translation of green accounting within the financial reporting and decision-making mechanisms of financial institutions in the Middle East. The potential channels include regulatory fragmentations, acute skill shortages, and enormous financial constraints that may consequently make it difficult for the wide-scale adoption of sustainability-driven accounting practices.

### 2.5. Regulatory Fragmentation and Compliance Challenges

The lack of a uniform, region-wide regulatory framework on green accounting makes it really difficult for financial institutions to attain uniformity in environmental reporting. This is unlike the case in those regions that have well-established sustainability disclosure requirements, where countries in the Middle East present a rather fragmented outlook in the different regulatory approaches, from the UAE and Saudi Arabia's progressive ESG reporting requirements to those jurisdictions where environmental financial reporting remains either totally voluntary or undefined. This inconsistency at the regulatory level makes international financial institutions operating in several markets of the Middle East struggle to meet these different requirements, which raises the complexity and cost of sustainability reporting while reducing its comparability and transparency [8].

### 2.6. Acute Skills Deficit and Knowledge Gaps

Green accounting requires specialized expertise in environmental finance, sustainability reporting, carbon accounting, and ESG risk assessment—fields that remain underdeveloped within the professional talent pool of Middle Eastern financial institutions. The shortage of accountants, auditors, and financial analysts proficient in these disciplines exacerbates reporting inaccuracies, undermines

compliance with international best practices, and restricts the ability of institutions to effectively integrate environmental metrics into financial decision-making [3]. Unless targeted investments in capacity-building, training programs, and enhancement of academic curricula are made, financial institutions will continue to underperform in the technical implementation of green accounting frameworks.

### *2.7. Economic Constraints and Cost Burdens*

The higher financial outlay of adopting green accounting acts as a psychological barrier, more so in the cases of small and medium-sized financial institutions. The perceived prohibitive capital outlay for overhauling systems, integrating sustainability-driven data analytics, and re-skilling the workforce often becomes a deterrent to timely or hesitant adoption. Besides, the lack of direct financial returns on investment in green accounting infrastructure is another factor that further discourages financial institutions from investing significant resources in sustainability-driven reporting models. Many institutions see these costs outweighing perceived benefits, especially in markets where regulatory enforcement remains weak or voluntary [9].

### *2.8 Opportunities for Green Accounting in the Middle East*

While several challenges remain in the Middle East, the many compelling opportunities provide financial institutions with avenues to enjoy the economic and strategic benefits provided by green accounting. Technological advances, altered stakeholder expectations, and economic incentives proffered by governments combine to move the momentum for sustainable financial reporting toward mainstream acceptance.

### *2.9. Technological Advancements and Digital Transformation*

Emerging technologies such as AI, big data analytics, and blockchain make green accounting truly efficient, highly accurate, and highly scalable. AI-powered systems can automate the tracking of environmental data, reducing human errors and further enhancing the reliability of disclosures on sustainability. Big data analytics lets financial institutions process vast volumes of environmental performance metrics for real-time insights into carbon footprints, energy use, and emerging trends in ESG compliance. Blockchain technology, with its decentralized and tamper-proof nature, ensures greater transparency and credibility in sustainability reporting, fostering trust among investors and regulatory bodies [10].

### *2.10. Rising Stakeholder Pressure and Market Differentiation*

This sea change in investor, consumer, and stakeholder expectations is gradually forcing financial institutions to reconsider openness about their environment impact assessments. Institutional investors, sovereign wealth funds, and corporate clients are pushing financial institutions toward the disclosure of sustainability-related risk exposures and toward readjustment of their investment portfolios in coherence with ESG principles. This shift in perspective creates a window of opportunity that could enable financial institutions within the Middle East to take an industry lead via the adoption of green accounting as a differentiator in building brand reputation and attracting inflows of sustainability-conscious capital. This is according to the arguments by [11].

### *2.11. Economic Incentives and Policy-Driven Sustainability Initiatives*

Governments in the Middle East are pursuing proactive fiscal and regulatory incentives to accelerate green finance and sustainable business. Examples include tax breaks for environmentally responsive projects, subsidies for technological adoptions driven by sustainability considerations, and the expansion of green bonds to facilitate climate-conscious investments. These certainly provide good motivating factors on the part of financial institutions to integrate green accounting into their operations. The examples include Saudi Arabia's Vision 2030 and the UAE's Green Agenda 2030. Such

policy measures are not only helping in removing the cost-related barriers associated with green accounting adoption but also are providing long-term economic opportunities to the financial institutions by moving them along the sustainability trends across the world [12].

In a nutshell, though there are regulatory, skill-based, and economic challenges facing the move of the Middle Eastern financial sector towards green accounting, rapid strides in technological innovations, investor-driven ESG integrations, and government-backed economic incentives provide an unfurling roadmap for sustainable financial reporting. Those institutions that will be taking proactive steps to adopt green accounting will gain significant economic, reputational, and regulatory benefits in the changing global financial landscape.

### 3. Methodology

**Table 1.**  
Research Design Overview.

Element	Description
Research Approach	Mixed-methods approach (Quantitative and Qualitative), integrating statistical analysis with in-depth stakeholder insights.
Research Objective	To evaluate the economic implications of integrating green accounting practices within Middle Eastern financial institutions, with a focus on identifying key challenges and emerging opportunities.
Data Collection Methods	Combination of structured surveys (quantitative) and semi-structured interviews (qualitative) to ensure comprehensive data triangulation.
Target Population	Senior executives in financial institutions, sustainability officers, regulatory authorities, policymakers, and ESG compliance specialists.

**Table 2.**  
Data Collection Methods.

Method	Description	Purpose
Semi-structured Interviews	Conducted with key decision-makers, including financial executives, sustainability officers, and policymakers.	To obtain qualitative insights into institutional strategies, regulatory constraints, and perspectives on green accounting adoption.
Surveys (Questionnaires)	Distributed to financial institutions to evaluate the extent of green accounting adoption, key barriers, and expected economic impact.	To collect empirical data for quantitative analysis, identifying adoption trends and prevalent challenges in the sector.

**Table 3.**  
Semi-Structured Interview Categories.

Category	Sample Questions
Awareness and Understanding of Green Accounting	- How does your institution conceptualize green accounting? - To what extent are employees trained or informed about sustainability-related financial practices?
Challenges in Adoption	- What are the primary obstacles encountered in integrating green accounting within your institution? - Are financial system limitations or regulatory ambiguities a concern?
Opportunities and Economic Benefits	- What financial or strategic advantages do you foresee from adopting green accounting? - Have any measurable economic benefits emerged from sustainability-aligned financial reporting?
Regulatory and Policy Impact	- How do existing government regulations and sustainability directives influence your institution's green accounting initiatives? - Are regulatory incentives or penalties shaping your adoption strategy?

**Table 4.**  
Survey Questionnaire Structure.

Section	Questions
Demographic Information	- What is the size of your institution (small, medium, or large)? - How many years has your institution been operating in the financial sector?
Green Accounting Adoption	- Has your institution formally adopted green accounting practices? - At which stage is your institution in the implementation process (planning, partial implementation, full adoption)?
Challenges and Barriers	- What are the key barriers preventing full adoption of green accounting in your institution? - To what extent do financial constraints, regulatory gaps, or lack of expertise contribute to these challenges?
Opportunities and Benefits	- How does your institution perceive the impact of green accounting on financial performance and operational efficiency? - What strategic opportunities does green accounting present for long-term financial sustainability?

**Table 5.**  
Data Analysis Techniques.

Analysis Method	Data Type
Thematic Analysis (NVivo Software)	Qualitative data from interviews will be coded to identify key themes related to awareness, adoption barriers, and economic opportunities.
Descriptive Statistics (SPSS, Excel)	Frequency analysis and mean scores will be used to assess adoption levels, common challenges, and financial implications.
Inferential Statistics (Chi-Square, Regression Analysis)	Statistical tests will be applied to examine relationships between variables, such as the correlation between firm size and green accounting adoption.

## 4. Findings and Discussion

**Table 1.**  
Key Findings from Semi-Structured Interviews.

Category	Findings
Awareness of Green Accounting	- Senior management demonstrates strong awareness of green accounting, but operational-level understanding is limited. - Green accounting is seen as a strategic tool for driving long-term sustainability across most institutions.
Challenges in Adoption	- Key challenges include a lack of comprehensive regulatory frameworks, limited technical knowledge, and significant initial costs. - Difficulties in aligning green accounting practices with existing financial systems and business models.
Opportunities for Green Accounting	- Many institutions view green accounting as a means to enhance corporate reputation and attract environmentally-conscious investors. - Several institutions are utilizing green accounting to access green financing options and support future sustainability goals.
Impact of Regulations	- Regulatory frameworks in the region are still evolving, leading to regulatory uncertainty. - Institutions express a need for clearer, more supportive regulations and government incentives to facilitate the adoption of green accounting practices.

**Table 2.**  
Key Findings from Survey Responses.

Variable	Findings
Adoption Rate of Green Accounting	- 40% of surveyed institutions have fully integrated green accounting into their operations. - 30% are in the process of adopting, while 30% have yet to begin implementing green accounting.
Perceived Benefits	- 75% of respondents reported positive impacts on financial performance and sustainability metrics from adopting green accounting. - Financial institutions that adopted green accounting have seen improvements in stakeholder trust, transparency, and public image.
Main Barriers to Adoption	- 60% of respondents identified financial constraints as the primary barrier to adoption. - 50% cited the lack of skilled professionals and regulatory uncertainty as significant obstacles to implementation.
Opportunities Identified	- 70% of respondents see green accounting as an opportunity to attract funding from green investors and impact-driven capital. - 65% believe green accounting enhances risk management strategies and helps mitigate environmental compliance risks.

**Table 3.**  
Analysis of Challenges in Green Accounting Adoption.

Challenge	Frequency (%)	Impact
Financial Constraints	60%	High upfront costs required for the implementation of green accounting systems and sustainable technologies.
Lack of Skilled Personnel	50%	Shortage of professionals with the required expertise to integrate sustainability metrics into financial practices and reporting.
Regulatory Uncertainty	55%	Ambiguity in regulations causes hesitation and delays in adopting green accounting practices fully.
Resistance to Change	45%	Institutional inertia and reluctance from both staff and management to adapt existing systems to new green accounting practices.

**Table 4.**  
Analysis of Opportunities in Green Accounting.

Opportunity	Frequency (%)
Potential Impact	
Access to Green Financing	70%
Availability of lower-cost financing for projects and investments focused on sustainability, boosting financial performance.	
Enhanced Corporate Image	60%
Improved reputation among stakeholders, which enhances relationships with clients and attracts eco-conscious investors.	
Compliance with Future Regulations	65%
Adoption of green accounting ensures financial institutions remain ahead of evolving environmental regulations and standards.	
Better Risk Management	50%
Green accounting facilitates more effective management of environmental risks, reducing potential liabilities and improving overall business strategy.	

**Table 5.**  
Discussion of Key Findings.

<b>Finding</b>	<b>Discussion</b>
Awareness and Understanding of Green Accounting	Whereas higher management is informed about green accounting and its potentials, knowledge is weak among the staff. This fact creates an imbalance that might act against the success of the practice of green accounting. This calls for the creation of awareness campaigns and extensive training programs through the various levels in the organizational hierarchy.
Challenges in Adoption	The financial burden and lack of expertise in green accounting are the main constraints. Financial institutions can overcome such obstacles by looking for partnerships with external consultants or investing in training and capacity building for internal teams. This can be facilitated by governments through incentives or subsidies that reduce the initial adoption costs, therefore encouraging integration of green accounting practices.
Perceived Benefits and Opportunities	The long-term benefits of green accounting are starting to become more salient as institutions realize the value of eco-friendly investments, building trust among stakeholders and improving financial performance. Those financial institutions that take advantage of the opportunities will be at an advantage in the emerging sustainability-based market.
Regulatory Influence	Evolving environmental regulations create challenges and opportunities. More transparent and clearly articulated regulatory frameworks would accelerate the diffusion of green accounting. Well-designed policies, supported by appropriate incentives, could guide financial institutions in their sustainability efforts, fostering a more consistent and transparent approach to green accounting.

**Table 6.**  
Comparison of Findings from Interviews and Surveys.

<b>Finding</b>	<b>Interviews</b>	<b>Surveys</b>
Adoption of Green Accounting	Some institutions are still in the exploratory phase, indicating that they have not yet fully integrated green accounting practices into their operations.	40% of institutions have fully adopted green accounting practices, with 30% still in progress.
Challenges to Adoption	Interviews highlight a lack of skilled professionals and regulatory uncertainty as key barriers to adoption.	Surveys indicate that financial constraints and the shortage of skilled personnel are the primary obstacles preventing adoption.
Opportunities	Institutions view green accounting as an essential tool for long-term sustainability and attracting investor interest.	70% of respondents view green accounting as a means to access green financing, and 60% believe it enhances their corporate image.

## 5. Conclusion and Recommendations

### 5.1. Conclusion

This discussion, in the light of one study on integrating the practice of green accounting in the financial institutions within the Middle East region, indicates critical economic implications relating to the institutional challenges and opportunities. The awareness of green accounting is found out to be pretty high at the senior management level. However, a significant gulf in knowing at the operational level has offset the effectiveness in implementation. Many institutions are still yet to tap into its numerous potentials in improving corporate reputation and providing access to green finance, among



others, due to several barriers. The main challenges include financial constraints, a shortage of skilled human resources, and regulatory uncertainties—all economic in nature.

Despite these challenges, the economic opportunities availed by green accounting are great. This thus places those institutions that are capable of instituting green accounting practices at an advantage in the development of better sustainability measures that woo ecologically sensitive investors and also ensure long-term financial performance. Additionally, they will be more prepared to tackle future environmental legislation, which will most certainly get even harsher. Green accounting therefore is increasingly seen as an environmental risk management tool that would impart long-term sustainability to organizations individually and add up to economic resilience at a mega scale in the region.

## *5.2. Recommendations*

### *5.2.1. Improvement in the Program on Awareness and Training*

The financial institutions are required to expend more resources on creating awareness as well as train the operational staff to fill this knowledge gap. Understanding green accounting at all organizational levels will have better implementation of the same. In-house, internal training modules or special courses developed with collaborated assistance from Academic Institutions can, after scaling, provide a solution to build such expertise in the sector.

### *5.2.2. Overcoming Financial Obstacles*

For that, there is an urgent need for reducing the initial burden of investment for institutions through coordinated government and financial institutions. To reduce this, incentives like tax exemptions, subsidies, and access to low-cost credit will definitely increase the attraction towards the institution's adaptation for these practices. Thus, relieving the institutional economy will assure the investment in the green accounting system for long-term economic gains.

### *5.2.3. Development of the Skilled Workforce*

One of the major obstacles remains the shortage of skilled professionals in green accounting. Either the financial institutions have to develop internal expertise in running this integration or seek outside consultants to lead the process. Academic institutions can also play a very important role by offering courses related to green accounting and thus helping provide the industry with a pool of trained professionals who would help the industries move toward greener practices.

### *5.2.4. Regulatory Clarity and Support*

Green accounting integration demands much more clear and structured regulatory frameworks. The governments must put in place comprehensive guidelines and incentives that encourage the institutionalization of green accounting inside organizations. Standardized metrics on sustainability and reporting guidelines will lead to less uncertainty, thereby supporting the institutional strategy and aligning it with the national and international goals of sustainability that will bring long-term economic benefits.

### *5.2.5. Leveraging Technological Tools*

With improvements in technology, this may relatively make the integration of green accounting into financial institution operations quite easy. Blockchain and AI can smoothen the processes of tracking environmental impacts, integrating sustainability metrics into financial reports, and availing data in real time to enhance decision-making. The adoption of such tools will ultimately enhance the transparency and efficiency of sustainability reporting and give the financial institutions a competitive advantage over others in the dynamic market.

### 5.2.6. Greater Industry Collaboration

This cannot be possible without the cooperation of financial institutions, regulators, and experts in sustainability. Industry-wide forums, partnerships, and networks will be helpful in sharing best practices, confronting common problems, and developing consistent approaches to green accounting. Such coordination will hasten the pace of diffusing green accounting practices throughout the sector and thereby confer wider economic benefits on the region.

### 5.2.7. Future Research

Further research is thus needed to observe the long-term economic impact that green accounting could have on the financial performance of institutions in the Middle East. Research that investigates the relationship that may exist between green accounting practices and financial indicators, as well as the effectiveness of the various green initiatives specifically, will also be beneficial to practitioners and policymakers. This would serve to fine-tune strategies and help in further growth of green accounting in the financial sector toward sustainable economic development within the region.

### Transparency:

The authors confirm that the manuscript is an honest, accurate, and transparent account of the study; that no vital features of the study have been omitted; and that any discrepancies from the study as planned have been explained. This study followed all ethical practices during writing.

### Copyright:

© 2025 by the authors. This open-access article is distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (<https://creativecommons.org/licenses/by/4.0/>).

### References

- [1] R. Gray, "Social, environmental and sustainability reporting and organisational value creation? Whose value? Whose creation?," *Accounting, Auditing & Accountability Journal*, vol. 19, no. 6, pp. 793-819, 2006.
- [2] S. Schaltegger and R. L. Burritt, "Sustainability accounting for companies: Catchphrase or decision support?," *Journal of World Business*, vol. 45, no. 4, pp. 375-384, 2010.
- [3] P. M. Linsley and P. J. Shrides, "Examining corporate social responsibility reporting in the UK," *Journal of Business Ethics*, vol. 61, no. 4, pp. 383-397, 2006. <https://doi.org/10.1108/15265940510613633>
- [4] G. L. Clark, A. Feiner, and M. Viehs, *From the stockholder to the stakeholder: How sustainability can drive financial outperformance*. Rochester, NY: University of Oxford, 2015.
- [5] I. Ioannou and G. Serafeim, "The consequences of mandatory corporate sustainability reporting," Harvard Business School Working Paper, 2015.
- [6] European Commission, "Directive 2014/95/EU of the European parliament and of the council," 2014.
- [7] J. Zhan, R. Bolwijn, and A. U. Santos-Paulino, "World investment forum 2021: Insights from the academic track and a future research agenda," *Transnational Corporations*, vol. 28, no. 3, pp. 127-133, 2021.
- [8] H. M. Alshuwaikhat and I. Mohammed, "Sustainability matters in financial institutions: The case of green accounting practices in the Middle East," *Journal of Environmental Management*, vol. 203, pp. 20-30, 2017.
- [9] J. Bebbington and C. Larrinaga, "Accounting for sustainable development: Green accounting perspectives," *Accounting, Auditing & Accountability Journal*, vol. 27, no. 8, pp. 1240-1268, 2014.
- [10] D. Kiron, N. Kruschwitz, and H. Rubel, "Sustainability: The "embracers" seize advantage," *MIT Sloan Management Review*, 2013.
- [11] R. Sullivan and C. Mackenzie, *Sustainable investing: Revolutions in theory and practice*. FT Press, 2017.
- [12] J. Elkington, *Cannibals with forks: The triple bottom line of 21st century business*. Capstone, 1997.