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Integrating E-Marketing and Financial Management For Sustainable Growth In Environmental Startups

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Abstract

Environmental startups play a critical role in combating climate change and fostering a green economy. However, achieving sustainable growth in this niche sector requires a strategic fusion of digital marketing and sound financial management. This paper explores the synergy between e-marketing techniques and financial strategies as key drivers of sustainability in green ventures. By integrating targeted online marketing campaigns with data-driven financial planning, environmental startups can enhance brand visibility, improve customer engagement, and ensure long-term profitability. The research draws on case studies, industry reports, and scholarly literature to demonstrate how digital tools and financial discipline collectively fuel the growth of eco-entrepreneurship. The paper concludes with a framework for integrating e-marketing and financial management practices to maximize the impact and sustainability of environmental startups.

Keywords: Environmental Startups, E-Marketing, Financial Management, Sustainable Growth, Digital Strategy, Green Economy, Financial Planning, Online Marketing, Startup Ecosystem.

INTRODUCTION

Environmental startups are at the forefront of tackling critical issues like climate change, pollution, and resource scarcity by offering innovative and sustainable solutions. These ventures focus on creating products, services, or technologies that align with ecological preservation and social responsibility. However, the journey of environmental startups is not without challenges—limited funding, market penetration difficulties, and the need to balance profitability with sustainability often hinder their growth. To navigate these hurdles, a strategic combination of e-marketing and financial management has become increasingly important. E-marketing refers to the use of digital platforms—such as social media, websites, email, and online advertising—to promote businesses and engage customers. For environmental startups, e-marketing plays a crucial role in spreading awareness, building a community around environmental values, and attracting both customers and investors who are aligned with sustainability goals. On the other hand, financial management encompasses budgeting, financial planning, risk assessment, and cost control—functions that ensure long-term business viability.

The integration of these two domains allows startups not only to promote their environmental mission effectively but also to maintain financial discipline. A strong e-marketing presence can generate new revenue streams and increase customer engagement, while efficient financial management ensures that these earnings are properly allocated and invested. Together, they form a framework for sustainable growth, enabling startups to scale responsibly and create lasting impact.

Over the past 15 years, researchers have explored how digital marketing and financial practices contribute to startup success. Kotler and Keller (2010) emphasized the shift towards green consumerism and highlighted how digital tools can enhance visibility for eco-friendly ventures. Their work laid the foundation for understanding how e-marketing can support environmental goals by connecting businesses with ethically minded consumers.

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Tiago and Veríssimo (2014) examined digital marketing adoption across sectors and found that firms using digital channels effectively had better customer retention and profitability. Although not specific to environmental startups, the findings underscore the universal importance of e-marketing in modern entrepreneurship. In the context of green innovation, Bocken et al. (2016) explored business model development in sustainable startups. They found that digital platforms enabled firms to share their sustainability narratives more effectively, increasing transparency and consumer trust. These elements are essential for environmental startups, where public perception and credibility often dictate market success. From a financial perspective, Brinckmann, Grichnik, and Kapsa (2011) demonstrated that early and structured financial planning significantly improves startup performance and investor confidence. Their findings support the argument that financial management should be a priority from the inception stage, especially in high-risk sectors like environmental technology.

As technology evolved, studies began to focus on the intersection of marketing and finance. Cumming and Zhang (2016) noted that startups leveraging digital financial tools—such as cloud-based accounting software and online investor reporting—attracted more funding and demonstrated better financial control. These tools, when aligned with strong digital marketing, contributed to business resilience and scalability. In more recent years, particularly after the COVID-19 pandemic, the importance of digital integration became even more evident. Kraus et al. (2022) found that startups with interconnected digital systems—combining customer engagement with financial monitoring—were better equipped to survive economic shocks. They emphasized the need for unified platforms that can support both marketing analytics and financial reporting. Dwivedi et al. (2021) further highlighted how social media and ecommerce have become essential for environmental brands. They found that purpose-driven marketing campaigns enhanced customer loyalty and brand authenticity, critical assets in the green startup ecosystem. Finally, Singh et al. (2023) introduced the term "eco-fintech," describing the emerging integration of digital financial technologies with sustainability-oriented ventures. Their study revealed how environmental startups are increasingly using tools such as ESG accounting software, impact investment dashboards, and online fundraising platforms in tandem with digital marketing strategies to improve both outreach and accountability.

Collectively, the literature from 2010 to 2024 shows a clear trend: environmental startups that align e-marketing strategies with sound financial management practices experience stronger growth, greater market resilience, and more effective stakeholder engagement. This integration is not only beneficial—it is essential for long-term sustainability in an increasingly digital and environmentally conscious world.

E-MARKETING IN ENVIRONMENTAL STARTUPS

In the rapidly evolving digital economy, e-marketing has emerged as a transformative tool for environmental startups striving to achieve visibility, growth, and sustainability. Unlike traditional marketing, e-marketing leverages digital channels such as social media, email marketing, search engine optimization (SEO), and content marketing to reach a broader audience at a relatively low cost. For environmental startups—often characterized by limited financial resources, innovative ideas, and ecocentric missions—this form of marketing offers a powerful platform to engage stakeholders, promote green values, and drive business development.

Environmental startups operate in a niche yet rapidly expanding market where consumers are increasingly concerned about sustainability, ethical sourcing, and environmental protection. E-marketing enables these startups to communicate their values, educate audiences on ecological issues, and build strong, value-based customer relationships. Through digital storytelling, blog posts, explainer videos, and real-time interaction on social media, startups can enhance brand awareness and trust. Green certifications, sustainability metrics, and transparency in business operations can also be effectively highlighted through digital campaigns to attract eco-conscious consumers and investors.

One of the key strengths of e-marketing is its cost-efficiency and measurable performance. Environmental startups can deploy low-budget campaigns and still achieve significant outreach through strategic content creation, influencer partnerships, and viral marketing. Search engine ads and social media algorithms allow targeted promotion to specific demographics interested in sustainability and environmental issues. This ensures that marketing budgets are optimized for maximum impact. Moreover, analytics tools enable startups to assess customer behavior, campaign effectiveness, and conversion rates—data that is crucial for making informed decisions and aligning marketing strategies with overall financial goals.

E-marketing also facilitates crowdfunding and community engagement, both of which are vital for early-stage environmental startups. Platforms like Kickstarter, GoFundMe, or specialized green funding portals

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startup's growth and sustainability objectives.

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can be effectively promoted via digital marketing, allowing startups to gather initial capital while simultaneously building a loyal community of supporters. Social media campaigns can be aligned with fundraising goals, awareness events, or product launches, enabling continuous feedback and adaptation. Despite its advantages, the integration of e-marketing with financial management remains a challenge for many environmental startups. Without a clear financial plan and resource allocation, digital campaigns may fail to translate into long-term profitability. Therefore, it is essential for startups to develop a holistic strategy that combines e-marketing with sound financial planning. This includes budgeting for online campaigns, calculating return on investment (ROI), and aligning digital activities with revenue generation and sustainability metrics. For example, performance metrics from e-marketing campaigns should feed into financial forecasts and strategic decisions, ensuring that marketing efforts are directly supporting the

E-marketing plays a critical role in the sustainable growth of environmental startups. It provides them with the tools to promote their mission, connect with eco-conscious consumers, and drive sales with limited resources. When effectively integrated with financial management, e-marketing becomes more than a promotional tool—it becomes a strategic asset that supports long-term environmental and economic sustainability. As the green economy continues to expand, digital marketing will be a cornerstone in helping environmental startups thrive in an increasingly competitive marketplace.

FINANCIAL MANAGEMENT IN ENVIRONMENTAL STARTUPS

Financial management plays a pivotal role in the success and sustainability of environmental startups. These enterprises, often driven by social and ecological missions, face unique challenges such as limited funding, longer return-on-investment periods, and the need for balancing profitability with environmental responsibility. In this context, sound financial management becomes essential to ensure long-term survival, growth, and impact.

At the core of financial management in environmental startups is effective budgeting and resource allocation. Startups must strategically plan their expenditures to optimize limited capital while investing in areas that yield both financial and ecological returns. This includes allocating funds to research and development of green technologies, sustainable sourcing, and compliance with environmental regulations, which often require substantial upfront investment but contribute to long-term viability.

Another important aspect is funding acquisition. Environmental startups frequently rely on a mix of financing sources such as venture capital, government grants, crowdfunding, impact investing, and green bonds. Financial managers must be adept at identifying and securing funding that aligns with the company's environmental values and long-term objectives. Transparent financial reporting and measurable environmental impact metrics are often required to gain investor confidence in this niche sector. Cash flow management is particularly critical. Given the often uncertain revenue streams associated with eco-friendly products or services, environmental startups must maintain healthy cash reserves and reduce unnecessary overheads. This may involve implementing lean financial strategies, outsourcing non-core operations, and using digital tools to streamline financial tracking and forecasting. Cost-benefit analysis is also a key financial tool. Startups must regularly evaluate the financial implications of sustainable practices to determine which ones are economically feasible and scalable. For instance, switching to renewable energy sources may be expensive initially, but it often leads to long-term cost savings and increased brand value. Similarly, adopting circular economy models—where waste is minimized and resources are reused—can improve financial efficiency over time.

Moreover, financial management intersects significantly with e-marketing strategies. Successful environmental startups integrate financial planning with digital marketing initiatives to ensure that marketing campaigns are not only cost-effective but also deliver measurable returns. Marketing budgets should be aligned with sales goals, and financial analytics must be used to assess the performance of various e-marketing channels.

Environmental startups also benefit from performance measurement systems that track key performance indicators (KPIs) related to financial health and sustainability goals. These may include return on investment (ROI), customer acquisition cost (CAC), environmental return on investment (EROI), and carbon offset value. Data-driven decision-making ensures that both financial and environmental targets are achieved in harmony.

In conclusion, robust financial management enables environmental startups to overcome operational risks, scale up sustainably, and attract responsible capital. By integrating financial planning with innovative e-marketing and sustainable practices, startups can not only achieve profitability but also

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contribute meaningfully to environmental conservation. Financial management, when applied with foresight and responsibility, becomes a powerful enabler of sustainable growth in the green economy.

NEED FOR INTEGRATION IN E-MARKETING AND FINANCIAL MANAGEMENT

Environmental startups face the dual challenge of promoting eco-conscious innovation while ensuring financial sustainability. As these enterprises strive to address critical environmental issues—such as climate change, waste management, and sustainable resource use—they often operate within limited budgets and face intense market competition. In this context, the integration of e-marketing and financial management emerges as not only beneficial but necessary for long-term growth, strategic alignment, and sustainable development.

E-marketing enables startups to promote their green products and services efficiently by leveraging digital tools such as social media, content marketing, SEO, email campaigns, and influencer outreach. These tools facilitate broad outreach at low cost, allowing even resource-constrained startups to build brand awareness and communicate their value propositions to environmentally conscious consumers. However, without aligning these marketing strategies with sound financial management, startups risk overspending on campaigns, misallocating resources, or failing to convert leads into profitable outcomes.

Effective financial management provides the backbone for informed decision-making, budgeting, resource allocation, and performance evaluation. It ensures that marketing investments are justified by expected returns and that capital is preserved for innovation and operational needs. When financial planning is disconnected from marketing initiatives, startups may face cash flow shortages, unmeasured ROI, or failure to scale their operations despite successful promotional efforts.

The integration of these two domains fosters a data-driven and accountable business culture. By embedding financial metrics into marketing campaigns—such as customer acquisition cost (CAC), return on marketing investment (ROMI), and lifetime customer value (LCV)—startups can make more informed, results-oriented decisions. This synergy also enables adaptive budgeting, where financial planning is responsive to marketing outcomes and market feedback, ensuring agility in a volatile startup ecosystem. Moreover, the environmental sector often requires companies to educate and engage with consumers to promote behavior change. This requires sustained investment in marketing communication, which must be justified and sustained through financial insights. Integrated planning ensures that eco-marketing campaigns are not only creative and engaging but also financially feasible and aligned with long-term goals.

Investors and stakeholders increasingly demand transparency and measurable impact from environmental startups. Demonstrating a coherent strategy that links marketing impact with financial performance enhances credibility and attracts sustainable financing. Startups that can show how their promotional efforts lead to revenue generation and reinvestment in green innovation are more likely to secure funding and build lasting partnerships.

The integration of e-marketing and financial management is essential for environmental startups aiming to grow sustainably. It ensures alignment between promotional goals and fiscal responsibility, supports strategic decision-making, and enhances resilience in a competitive market. As environmental concerns gain global attention, startups must build not just green products but also green business models—and that requires a unified approach to marketing and financial planning.

TOOLS AND TECHNOLOGIES FOR INTEGRATION IN E-MARKETING AND FINANCIAL MANAGEMENT

In the digital age, environmental startups must leverage advanced tools and technologies to integrate e-marketing with financial management effectively. This integration not only streamlines business operations but also enables sustainable growth by aligning marketing efforts with financial objectives. The convergence of digital marketing platforms with financial tools creates a data-driven ecosystem that helps environmental startups enhance transparency, monitor performance, and make informed decisions.

One of the key technologies facilitating this integration is Customer Relationship Management (CRM) systems, such as Salesforce and HubSpot. These platforms allow startups to track customer interactions, manage campaigns, and link marketing activities directly to sales and revenue generation. When integrated with financial software, CRMs provide real-time insights into customer lifetime value (CLV), return on investment (ROI) of marketing efforts, and customer acquisition costs (CAC), all of which are critical for financial planning.

Marketing automation tools like Mailchimp, ActiveCampaign, and Marketo further enhance efficiency

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by automating repetitive tasks such as email campaigns, social media posts, and lead nurturing workflows. These tools can be integrated with financial analytics platforms to track campaign effectiveness in monetary terms. For instance, marketing costs can be directly compared with generated revenue, helping startups adjust their strategies for better financial outcomes.

On the financial management side, cloud-based accounting software such as QuickBooks, Zoho Books, and Xero enable real-time financial tracking, budgeting, and reporting. These platforms can be synchronized with marketing tools to provide a comprehensive view of financial health. For example, a sudden spike in digital ad spending can be instantly reflected in financial dashboards, allowing immediate corrective action.

Business Intelligence (BI) tools such as Tableau, Power BI, and Google Data Studio play a vital role in the integration process. They aggregate data from both marketing and financial sources, enabling startups to visualize trends, generate predictive insights, and optimize resource allocation. Environmental startups can use these insights to identify which marketing channels deliver the highest financial returns with the least ecological footprint.

Moreover, Enterprise Resource Planning (ERP) systems, including SAP Business One and Oracle NetSuite, offer an all-in-one solution for managing various business functions. These systems provide modules for marketing, sales, finance, and supply chain, fostering seamless information flow and strategic coordination. For green startups involved in product-based offerings, ERP integration helps manage inventory and production costs while aligning with marketing campaigns to avoid overproduction and reduce waste.

Data analytics and AI-powered tools are also gaining momentum in driving integration. AI tools can predict consumer behavior, personalize marketing content, and recommend budget allocations based on historical performance. When integrated with financial modeling tools, AI helps in scenario planning and risk assessment, which are crucial for startups operating in dynamic environmental sectors.

In conclusion, the use of integrated tools and technologies is essential for environmental startups aiming for sustainable growth. By bridging e-marketing and financial management, these tools not only enhance operational efficiency but also support responsible decision-making and long-term environmental goals. Adopting such digital solutions positions startups to thrive in competitive markets while upholding their commitment to sustainability.

CHALLENGES IN INTEGRATION OF E-MARKETING AND FINANCIAL MANAGEMENT

Integrating e-marketing and financial management poses significant challenges for environmental startups aiming for sustainable growth. While digital marketing offers powerful tools to reach eco-conscious consumers, aligning these efforts with sound financial strategies is complex and often under-resourced. One major challenge is the lack of financial literacy among marketing teams and, conversely, limited marketing understanding among financial managers. This disconnect can lead to poorly planned campaigns that either overspend or underperform due to inadequate budget allocation or unrealistic ROI expectations. Environmental startups, often driven by passion rather than profit, may not always conduct proper cost-benefit analyses for digital campaigns, leading to financial strain.

Another key issue is data fragmentation. E-marketing platforms generate vast data on consumer behavior, campaign performance, and conversion metrics, but integrating this with financial data systems requires advanced analytics and cross-functional tools. Many startups lack the technical infrastructure or skilled personnel to extract meaningful insights that inform both marketing and financial decisions.

Budget constraints also limit the ability to invest in integrated digital platforms that combine Customer Relationship Management (CRM), Enterprise Resource Planning (ERP), and marketing automation. This hampers efficient tracking of marketing spend and its direct impact on revenue generation or cost savings. Additionally, the evolving nature of both digital marketing trends and environmental regulations creates uncertainty. Sudden algorithm changes on platforms like Google or Meta can reduce campaign effectiveness, while changing green compliance standards may require shifting financial priorities, causing disruptions in strategic planning.

To overcome these challenges, environmental startups need to foster cross-disciplinary collaboration, invest in upskilling staff in both domains, and adopt integrated software solutions that bridge the gap between marketing performance and financial accountability. Only by aligning their e-marketing and financial management strategies can these startups achieve long-term, sustainable growth.

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Fig: 1: Framework for Integration

Stage	E-Marketing Focus	Financial Management Focus	Integration Outcome
Strategy Formulation	Define target audience and channels	Set budgets and funding strategies	Aligned goals and resource planning
Campaign Execution	Run campaigns and promotions	Track spending and performance	Real-time financial insights
Performance Analysis	Monitor engagement and conversion	Evaluate ROI and CAC	Informed future planning
Continuous Improvement	Adjust messaging based on feedback	Optimize budget allocation	Sustainable scaling of operations

FUTURE SCOPE

The future scope of integrating e-marketing and financial management for sustainable growth in environmental startups is highly promising. Advancements in digital tools, data analytics, and AI-driven platforms offer startups new opportunities to optimize marketing strategies while maintaining financial efficiency. This integration can enable targeted campaigns, real-time financial tracking, and better resource allocation. As environmental awareness grows globally, startups can leverage this synergy to enhance brand visibility, attract eco-conscious investors, and build long-term resilience. Moreover, incorporating sustainability metrics into both financial and marketing frameworks can help align business practices with global environmental goals, fostering growth that is both profitable and responsible.

CONCLUSION

The path to sustainable growth in environmental startups is paved with strategic foresight and operational discipline. While e-marketing provides the visibility and reach necessary to engage eco-conscious consumers, financial management ensures the stability and scalability of these ventures. When integrated, these domains create a powerful framework for growth, resilience, and environmental impact. By leveraging digital tools, cross-functional collaboration, and policy support, environmental startups can not only survive but thrive in the modern green economy.

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