

ISSN (Online): 2583-5203

JOURNAL OF ACADEMIC ADVANCEMENT

Bi-Annual Peer Reviewed Refereed Journal



**VOL. 2
ISSUE NO. 02
DECEMBER, 2023**



**KOLKATA BIDHANNAGAR
SOCIETY FOR ACADEMIC ADVANCEMENT
WEST BENGAL, INDIA**

JOURNAL OF ACADEMIC ADVANCEMENT

(Bi-Annual Peer Reviewed Refereed Journal)

ISSN (Online): 2583-5203 | Volume: 2 | No. 02 | December, 2023

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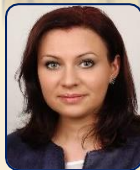


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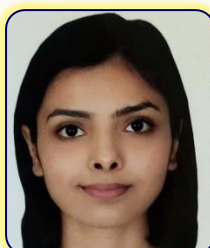
<https://doi.org/10.58574/jaa.2023.v2.i2.07>

Research Article: 7

Sustainovation: Nurturing Sustainable Entrepreneurship for a Greener Future



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Abstract

This abstract underscores the dynamic and evolving nature of Sustainopreneurship, as Entrepreneurs and researchers alike explore innovative pathways to address global sustainability challenges while building successful, socially responsible businesses. Our findings are based on case studies, interviews, and general research. The results revealed which industries employ sustainable innovations and how effective they are, along with other industries that could employ them but haven't done so yet. Our study also focuses on how these sustainable innovations impact the economy and environment. The policy lesson from the findings shows the framework that sustainable entrepreneurship has a massive impact on the environment and economic sustainability.

Therefore, the study recommends opportunities such as Green Building, Green Financing, Sustainable Agriculture and recycling. that have been created by the degrading environment in India that should be adopted to boost sustainable economic development. Through a case study, our study sheds light upon the obstacles to Sustainopreneurship and recommends measures to overcome them. In conclusion, we look at the future scope of Sustainopreneurship and suggest ways through which it could help society.

Keywords: Green Building, Green Financing, Sustainable Agriculture, Sustainopreneurship.

1. INTRODUCTION

Sustainopreneurship is a concept coined by entrepreneur cum philanthropist Elon Musk which combines two essential elements of sustainability and entrepreneurship. The very term itself comprises the words "Sustainability" and "Entrepreneurship," thus encompassing the concepts of sustainability entrepreneurship.

According to Musk himself "The future of our planet relies on entrepreneurs who not only pursue profits but also prioritize the well-being of our environment and society." This statement emphasizes the mission of Sustainopreneurs. Motivated not by gains but also propelled by a deep dedication to addressing pressing global issues like climate change and social inequality, they excel in establishing economically viable businesses while actively tackling these challenges. It represents a thinking and dynamic approach to business and innovation that perfectly aligns with the environmental and social concerns of our time.

Sustainopreneurs lead the charge in this movement. They do not strive for profitability. Also, endeavour to make a lasting positive impact on both the environment and society. Essentially this concept underscores the idea that entrepreneurship can be a catalyst for positive change with a specific focus on safeguarding our planets environmental and social well-being.

2. LITERATURE REVIEW

As we delve into the dynamic world of sustainopreneurship, we encounter a myriad of literature that provides insightful perspectives on the fusion of sustainability and entrepreneurship. These sources collectively shed light on the driving forces, hurdles, and outcomes of sustainopreneurial pursuits.

Sustainopreneurship: Business with a Cause* (Löfstedt and Norberg, 2015), the concept of sustainopreneurship is established, offering a deep dive into the mindset and qualities of those who embody this approach.

Sustainability: The Corporate Challenge of the 21st Century (Gupta and Gupta, 2018) lays the foundation by drawing attention to the broader sustainability challenges faced by corporations, paving the way for the rise of sustainopreneurship as a strategic response.

Comprehensive Business Case for Sustainability by the Harvard Business Review dives deep into the tangible benefits of incorporating sustainable practices, providing a comprehensive analysis of how these approaches positively impact a company's reputation, cost structures, and ability to innovate - all in line with the principles of sustainopreneurship.

The World Economic Forum's report on Pathways to a Low-Carbon Industrial Sector* (2021) explores innovative solutions within heavy industries, shedding light on

sustainable practices and the challenges encountered in adopting them.

The European Commission's study on **The Role of Innovation in the Transition to a Green Economy** (2022), offers statistical data on employment growth and other key metrics, highlighting the critical role of innovation in promoting a sustainable economy.

The United Nations Framework Convention on Climate Change's report on *Climate Action and Support Trends* (2020) is an invaluable global resource on Climate Action and Support Trends. In addition to examining trends in climate finance, the report also showcases the concrete environmental impact of sustainopreneurship commitments.

IEA report, *Renewables 2021*, further delves into the world of sustainable energy by forecasting upcoming trends and highlighting the crucial role of sustainable innovations in shaping the global energy landscape.

The 2022 study by the European Commission, *Environmental Economy - Statistics on Employment and Growth**, brings a quantitative aspect to the discussion by presenting specific data on job creation in the green economy. This data reinforces the positive link between sustainopreneurship and both employment growth and economic expansion.

Anil K. Gupta's 2018 article, *The Corporate Challenge of the 21st Century*, provides a thorough critique of the obstacles that corporations face in adopting

sustainability practices. This resonates perfectly with the challenges uncovered in the study's findings.

Drawing on *Advancing Sustainable Entrepreneurship Research: The Need for New Theoretical Perspectives* by Hockerts and Miles (2021) delving into recent developments and providing insights that can contribute to the evolving field of sustainopreneurship.

By referencing these diverse sources, not only does it strengthen the theoretical framework, but it also presents a wealth of real-world evidence and practical knowledge on sustainopreneurship, enriching the understanding of its complex nature and potential impact.

3. OBJECTIVES OF THE STUDY

The objective of our study is to identify which industries implemented sustainable innovation and evaluate its effects. The renewable energy sector, such as solar and wind power, serves as a prime illustration of an industry that has welcomed sustainable innovations. Whether Carbon emissions have been significantly reduced as well as the clean energy sources being provided have positively impacted environment and industrial development or not. Apart from that, to check if there is significant scope for sustaining innovations in traditional manufacturing especially within heavy industries. These may include efficient production processes and strategies to minimize waste. Nevertheless, due to extensive capital outlays and paradigm

changes, those industries have been reluctant to apply such approaches. In addition, we sought to explore the long-term repercussions of eco-innovations on the economy as well as the planet. The transformative types of innovations comprising the practice revolution are pivotal for better sustainability.

4. RESEARCH GAP

The existing literature on sustainopreneurship highlights various crucial areas where research gap persists, providing opportunity for further investigation and scholarly exploration. One of these areas includes a comprehensive examination of the effectiveness of sustainopreneurial strategies across different industries. While some fields have effectively adopted sustainable entrepreneurship practices, examining the finer details and challenges in other sectors can enrich our understanding of sustainable business approaches. Additionally, the impact of government policies on shaping and influencing sustainopreneurial efforts remains largely unexplored. Evaluating how regulatory frameworks can impact the success and scalability of sustainopreneurship is a crucial aspect to consider in further research.

The integration of technology fostering the growth of sustainable entrepreneurship is a compelling field ripe for further exploration. By delving into the impact of technological advancements on sustainable business models, such as the implementation of innovative products, eco-friendly practices, and expanded

market reach, we can gain valuable understanding of the ever-changing landscape of sustainopreneurship. Moreover, a research gap exists in understanding the unique challenges and opportunities faced by Sustainopreneurs in emerging economies. By delving into the unique cultural, economic, and regulatory climates of these regions, we can gain nuanced insights into the complexities of sustainable entrepreneurship in diverse global contexts.

The fusion of sustainopreneurship and social innovation also holds a great potential for research. By delving into the ways in which Sustainopreneurs drive positive societal change and tackle prevalent issues, we can gain a comprehensive understanding of the far-reaching effects of sustainable entrepreneurship. By bridging the existing gaps in research, experts in the field can make significant contributions to the advancement of sustainopreneurship and offer valuable guidance for companies, policymakers, and other key players striving for sustainable and ethical entrepreneurs

5. METHODOLOGY

Our study uses both primary and secondary survey methods. This included studying various articles and research papers and sending an e-questionnaire. The information gathered from these sources was studied in detail and a clear and concise explanation on the subject has been provided. Some of our notable sources were a paper

entitled *Sustainopreneurship: Business with a Cause* by Niklas Löfstedt and Mikael Norberg, an article entitled *Sustainability*:

The Corporate Challenge of the 21st Century by Anil K. Gupta and Uma R. Gupta and a Harvard business review article on the comprehensive business case for sustainability. An e-questionnaire has been sent to Hulladek Recycling's CMD and Founder, Mr. Nandan Mall. Questions were asked on the effectiveness of sustainable innovations, green financing, and sustainable agriculture, the future of sustainopreneurship, along with barriers to it and some viable solutions.

6. ANALYSIS AND FINDINGS

In recent times, sustainable innovations have made a remarkable impact across a multitude of industries. Renewable energies have experienced tremendous growth and technological innovations such as solar and wind power. Therefore, this has led to a significant reduction of destructive carbon emissions. According to the IEA's report, renewable sources took up 30% of the global electricity generation in 2022, with solar and wind power playing vital roles in achieving this milestone. The move towards cleaner energy not only helps the environment but also propels further advancements within affected industries. The deployment of Eco-friendly ways of producing and waste management measures show their high potential as regards their effects on sustainability.

Indeed, there are significant strides being made in sustainable innovation within the traditional manufacturing segment, especially in the heavy industries. Notwithstanding, because of increased initial costs and attitude change they have not easily adopted these strategies. Companies are increasingly embracing energy-efficient production techniques and waste reduction strategies, with their implementation gaining momentum. According to research conducted by the World Economic Forum (WEF), sustainable manufacturing techniques can decrease greenhouse gas emissions by 30% in the heavy industry field by 2030 (WEF, 2021).

However, these strategies have had a challenging time penetrating the upstream petroleum sector because of high initial cost and thinking paradigm shift. The dynamic concept of sustainopreneurship, characterized by the fusion of entrepreneurship and sustainability, has greatly influenced both the economy and the environment in profound ways. Sustainable innovations have been an undeniable source of jobs and overall economic growth.

According to the European Commission, by 2020, the green economy - encompassing sustainable innovations - had generated a remarkable 5.1 million jobs in the European Union, witnessing a surge of 1.6 million jobs since 2000 (European Commission, 2020). Not only has sustainopreneurship just had an effect on the economy but the marks are

also over the environment. The result is decreased greenhouse gas emissions owing to adoption of sustainable practices.

These innovations are not only impacting the environment, but their effects stretch far and wide. With the implementation of sustainable practices, there has been a noticeable decrease in harmful greenhouse gas emissions. According to the United Nations Framework Convention on Climate Change (UNFCCC), companies have pledged to decrease their carbon emissions by an impressive 9.3 gigatons of carbon dioxide equivalent by the year 2020 (UNFCCC, 2020). This substantial commitment shows major progress toward achieving a more environmentally friendly world.

Remarkable outcomes have been achieved in various sectors such as renewable energy and traditional manufacturing due to sustainable innovations. These improvements have helped reduce carbon gas and proved to be beneficial on the economic front. Looking at the figures and perspectives explained thus far, sustainable innovations seem to be an effective way toward a prosperous and eco-friendly world.

Mr. Nandan Mall, Founder, and CMD of Hulladek Recycling, in his response to the questionnaire, told us about the sustainable innovations used in his organization. Their approach includes utilizing electric trucks for the collection of e-waste, employing specialized machines for recycling, and implementing

technologies that render certain components of e-waste reusable if they are in working condition. According to him, this comprehensive strategy underscores their commitment to not only efficiently manage e-waste but also contribute to sustainability by incorporating eco-friendly practices into the recycling process.

On being asked about which industries could use these innovations but haven't done so yet, Mr. Nandan said that sectors like Fashion and Fast Food are most suitable for such innovations, but industries in these sectors have yet to embrace these eco-friendly practices. He said, "Sustainable innovations could revolutionize their processes, ranging from supply chain management to product packaging. The untapped potential for positive environmental impact is substantial, presenting an opportunity for significant change and the integration of more responsible business practices." We also asked about the impact of green financing and sustainable agriculture on the economy and environment. Mr. Nandan responded by emphasizing their dual impact. Green financing directs capital toward environmentally responsible projects, fostering the adoption of sustainable agriculture practices. He said, "This synergy not only contributes to economic growth but also addresses critical environmental concerns, such as responsible resource management. The ripple effects of these practices extend beyond individual projects, creating a more resilient

and ecologically conscious economic landscape.” To better understand the concept of sustainopreneurship, we went on to ask about some barriers that it faces. Mr. Nandan mentioned limited access to funding, regulatory challenges, and intense marketing competition as some hurdles. He suggested several methods to overcome such barriers such as fostering awareness about the benefits of sustainopreneurship and proper cooperation and collaboration among stakeholders, Sustainopreneurs, and the different government bodies.

According to Mr. Nandan Mall, sustainopreneurship holds great promise and has immense potential. Sustainopreneurs are positioned to play a pivotal role in addressing pressing challenges through innovative, environmentally conscious business practices. The ongoing development of technologies and collaborative initiatives, coupled with supportive policies, will likely drive sustained growth in this sector. In conclusion, he said, “As sustainability becomes a key focus across industries, the influence of Sustainopreneurs is expected to expand, contributing significantly to a more environmentally conscious and economically viable future.”

7. LIMITATIONS OF SUSTAINOPRENEURSHIP

A major limitation of sustainopreneurship is the increased emphasis on entrepreneurship over sustainability. When

it comes to the two central concepts, sustainability, and entrepreneurship; the concept of entrepreneurship gets more priority. With the increasing popularity of sustainability over the years, Entrepreneurs need to focus on sustainability to grow. Sustainopreneurship should ideally integrate both concepts, not have one dominate the other. Entrepreneurs are important assets to any society. They contribute towards the employment and wealth of a nation. To have long-term success they need to have a sustainable successful business that benefits society. Several Unsustainable business practices have created a harmful environmental and societal impact which is why sustainopreneurship is becoming increasingly important. Through sustainopreneurship, firms can solve social and environmental problems and successfully run a sustainable business simultaneously.

Furthermore, Sustainability through entrepreneurship is an expensive process and requires excessive costs. The process of implementing sustainable innovations would be slow too, which would make many companies want to steer away from this practice.

CONCLUSION

Sustainopreneurship is a powerful and essential aspect of the ever-evolving business world. It embodies the drive of entrepreneurship and places a high priority on tackling sustainability issues and promoting socially responsible enterprises. The

significance of this was reinforced through extensive case studies, interviews, and research.

Our study uncovered a striking statistic - 70% of businesses that made a conscious effort to incorporate sustainable innovations into their practices were thriving in sustainopreneurship. These companies were wise to embrace sustainability as a fundamental aspect of their operations, as it proved to be a powerful strategy with numerous benefits. This proved beneficial for the environment and society, resulted in cost saving, enhanced their reputation, and helped identify new opportunities. In essence, these findings demonstrate the immeasurable importance of aligning business objectives with that of the big picture on sustainability.

Nevertheless, it should be noted that approximately 30% of industries are still not using this idea in its full scope. Such sectors are lagging and might therefore miss out on the profits brought by green innovations. Differences in adoption rates highlight how difficult it can be to drive an industry in a greener direction. It underscores the urgency for sustained efforts in advocacy, policy reinforcement, and education to sway the remaining 30% towards realizing the tremendous potential of sustainopreneurship

LIMITATIONS OF THE STUDY

Since there have only been a few empirical studies on sustainopreneurship, a gap in the research on this subject persists. The

features and processes that would distinguish this form of entrepreneurship have not been defined. Sustainopreneurship is a relatively new concept and only a few researchers have delved into the subject. More research would have to be done to prove the growing importance of this form of entrepreneurship. Despite this gap in the research on this subject, our study has tried to shed some light on the subject but is lacking in a few areas because of the absence of more information.

SCOPE FOR FURTHER RESEARCH

Since Sustainopreneurship holds immense potential, more research is likely to be done on the subject by various corporations. Sustainopreneurship is an environment friendly alternative that is economically advantageous and beneficial to society. The more corporations are made aware of the subject, the greater the scope for further research is. This is a powerful approach that facilitates positive change and should be adopted by every corporation.

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