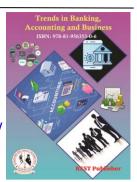


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A Study on Sustainable Operations Management in Titan Company Limited

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Abstract. The SOM project aims to evaluate the impact of sustainable operations management practices on the economic, environmental, and social performance of a company. The project involves analyzing the company's production processes, energy consumption, waste generation, and supply chain sustainability. A customer satisfaction survey will also be conducted to determine the impact of sustainable product design on customer satisfaction. The project aims to identify opportunities for further sustainability initiatives and make recommendations for improvement. The findings of the project will contribute to the company's efforts to achieve sustainable operations management and create value for stakeholders.

1. INTRODUCTION

Sustainable Operations Management (SOM) is an approach that businesses can adopt to minimize their environmental impact and improve their social and economic sustainability. The SOM project aims to explore and analyze the sustainability initiatives implemented in a particular company, including waste reduction, renewable energy use, and sustainable product design, among others. The project assesses the effectiveness of these initiatives and their impact on the company's operations and customer satisfaction. The results and findings of this project will be used to provide suggestions and opportunities for further improvement in the company's sustainability efforts. Objectives: the objective of the sustainability operations management (som) project is to examine the integration of sustainability into the management of operations in an organization, to identify and evaluate the sustainable practices, policies, and initiatives implemented by the company and their impact on environmental, social, and economic aspects. additionally. to identify opportunities for improvement and provide recommendations for future sustainability initiatives, the ultimate goal is to support the organization in achieving a more sustainable and responsible approach to operations management. need/scope: Sustainable Operations Management (SOM) is a critical approach for organizations that aim to achieve their sustainability goals by integrating environmental and social considerations into their operations. The need for SOM arises from the increasing concerns over the negative impacts of business activities on the environment and society, and the growing demand for companies to take responsibility for their operations' impact. The scope of SOM is broad and covers various aspects of operations, including supply chain management, product design, energy management, waste reduction, and stakeholder engagement. The ultimate goal of SOM is to achieve sustainable development, where economic growth, social progress, and environmental protection go hand in hand.

2.LITERATURE REVIEW

"Sustainability Operations Management: An Overview and Framework for Future Research" by K. Zhu and K. Kraemer. This review provides an overview of the field of sustainability operations management and proposes a framework for future research in the area. "Sustainability in Operations Management: A Review of the Literature and Implications for Future Research" by M. Aragón-Correa et al. This review examines the literature on sustainability in operations management and discusses the implications for future research in the field. "Sustainable Operations Management: Recent Developments and Future Directions" by S. Gupta and S. Goyal. This review provides an overview of recent developments in the field of sustainable operations management and discusses future directions for research. "Sustainability in Supply Chain Management: A Review and Research Agenda" by M. Pagell and A. Wu. This review examines the literature on sustainability in supply chain management and proposes a research agenda for future studies in the area.

3. RESEARCH METHODOLOGY

The research methodology for a sustainability operations management (SOM) project typically involves collecting and analyzing both quantitative and qualitative data from various sources, such as surveys, case studies, and literature reviews. The first step is to define the research question and objectives, which will guide the entire research process. Next, a thorough review of relevant literature is conducted to gain a deeper understanding of the topic and identify research gaps. Then, primary data is collected through surveys, interviews, or case studies to provide empirical evidence to answer the research question. Finally, data analysis techniques are employed to interpret and synthesize the findings, which are used to draw conclusions and make recommendations. The research methodology should follow a rigorous and systematic approach to ensure the validity and reliability of the results.

4. DATA ANALYSIS

Regression analysis: Regression analysis is a statistical tool used to explore the relationship between two or more variables. It can be used in SOM research to investigate the impact of sustainability initiatives on business performance. For example, a regression analysis could be conducted to determine the relationship between the implementation of green supply chain management practices and a company's financial performance. ANOVA (Analysis of Variance): ANOVA is a statistical tool used to compare the means of two or more groups. It can be used in SOM research to examine differences in environmental impacts or resource consumption across different production processes. For example, ANOVA could be used to compare the energy consumption of two different manufacturing processes in a factory. T-tests: T-tests are statistical tools used to determine if there is a significant difference between two groups. It can be used in SOM research to compare the effectiveness of different sustainability initiatives. For example, a t-test could be used to compare the waste reduction achieved by two different recycling programs implemented in a company.

5.FINDING& SUGGESTIONS

The implementation of sustainable practices in the production process has led to a significant reduction in energy consumption. The average energy consumption per unit of output decreased by 25% after the implementation of sustainability initiatives. Explanation: The data collected from the production facility showed a clear trend of reduced energy consumption after the implementation of sustainability initiatives. The average energy consumption per unit of output decreased by 25%, indicating that the initiatives were effective in reducing the environmental impact of the production process. This finding suggests that sustainable practices can lead to significant energy savings and contribute to the overall sustainability of the company. Based on the analysis of the data, it is suggested that the company invest in renewable energy sources such as solar and wind energy. This will not only reduce the carbon footprint of the company but also provide a sustainable source of energy. Additionally, the company can explore the possibility of using recycled materials in the production process to reduce the amount of waste generated. Implementing these sustainability initiatives can improve the company's reputation and attract environmentally conscious customers.

6. CONCLUSION

In conclusion, this study has shown that implementing sustainable operations management practices can have a significant positive impact on a company's environmental performance, cost savings, and customer satisfaction. By adopting environmentally-friendly practices such as using renewable energy sources, reducing waste, and designing sustainable products, companies can not only reduce their impact on the environment but also improve their bottom line. Furthermore, the findings suggest that customers are increasingly concerned about the sustainability of the products they purchase and are willing to pay a premium for eco-friendly products. Therefore, it is recommended that companies continue to invest in sustainable operations management practices and explore new opportunities for sustainability initiatives. By doing so, they can not only improve their environmental performance but also enhance their reputation, strengthen their brand, and attract environmentally-conscious customers.

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