

Environmental Conscious Manufacturing for Sustainable Growth

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Abstract— Companies must be more environmentally conscious, focus on sustainable practices and materials, and become more socially responsible corporations. Current manufacturing activities have caused the degradation of the environment, the depletion of resources at an accelerated rate, global warming, and affected the quality of life. New technologies, the short life cycle of products consumed more resources that hinder sustainable growth. Thus, companies have to transform their manufacturing activities, not only to increase competitiveness but to consider the impact of their activities on the environment in a socially responsible manner. Environmental conscious manufacturing when practiced addressed the environmental necessity and provide the means of managing the depletion of resources. Enhancing the understanding of the practices of ECM and their impacts on the environment will enable companies to develop their manufacturing strategies.

Keywords – Environmental conscious manufacturing (ECM), Reverse logistics, 6Rs, sustainable growth

INTRODUCTION

In recent decades, environmental degradation and global warming are of great concerns globally. In today's competitive world, implementing the remanufacturing strategy to regain the value of products and assemblies have been the focused of many companies. The benefits of remanufacturing to reduce the energy consumption and waste production have been discussed. Improving the flow of products in various recycling and remanufacturing channels to eliminate waste energy and raw materials has to be considered. Recycling, remanufacturing and disposal have important roles in sustainability [1].

The legal, economical and commercial issues are some of the reasons to motivate companies to consider the environment [1]. In the mid 1980s, most developed countries just consider their responsibilities to properly dispose their chemical wastes. This is commonly known as "cradle-to-grave" life cycle. While, today, in modern countries all entities who have critical roles in product life cycle such as suppliers and manufacturers focus on modern environmental management and sustainable manufacturing to prevent waste production and improve the use of natural resources in their products. This "cradle-to-cradle" life cycle concept focuses on recovery, recycling or up-cycling, and reuse of resources [2].

Hence, in the beginning of the twenty-first century, environmentalism, a practice of responding to environmental or green issue in a socially responsible manner, remains an important social and business issue. Government regulations, changing consumer demand and development of international certification standards are some other motives. However, green manufacturing is applied as the manufacturing paradigm that employs various green strategies and techniques to become more eco-efficient. Green supply chain management endeavors to develop green manufacturing not only in manufacturing, but also to increase social awareness on environmental issues in the different layers of supply chain management [3].

The consideration of environmental issues and concerns during manufacturing and the design practices throughout the life cycle of the product will help reduce the overall negative impacts on the environment. This paper highlights on some of the issues and practices of environmental conscious manufacturing for sustainable growth.

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Environmentally Conscious Manufacturing, 2004 *Responsible Manufacturing* Ammar Y. Alqahtani, Elif Kongar, Kishore K. Pochampally, Surendra M. Gupta, 2019-02-25 Responsible Manufacturing has become an obligation to the environment and to society itself enforced primarily by customer perspective and governmental regulations on environmental issues This is mainly driven by the escalating deterioration of the environment such as diminishing raw material resources overflowing waste sites and increasing levels of pollution Responsible Manufacturing related issues have found a large following in industry and academia which aim to find solutions to the problems that arise in this newly emerged research area Problems are widespread including the ones related to the lifecycle of products disassembly material recovery remanufacturing and pollution prevention Organized into sixteen chapters this book provides a foundation for academicians and practitioners and addresses several important issues faced by strategic tactical and operation planners of Responsible Manufacturing Using efficient models in a variety of decision making situations it provides easy to use mathematical and or simulation modeling based solution methodologies for the majority of the issues Features Addresses a variety of state of the art issues in Responsible Manufacturing Highlights how popular industrial engineering and operations research techniques can be effectively exploited to find the most effective solutions to problems Presents how a specific issue can be approached or modeled in a given decision making situation Covers strategic tactical and operational systems issues Provides a foundation for academicians and practitioners interested in building bodies of knowledge in this new and fast growing area

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