

Overcoming the Critical Barriers to Implementing Sustainable Concept in Kuwait Cement Manufacturing.

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1 Abstract

Nowadays, the sustainability has become a driver for effectiveness in essentially all manufacturing sectors. Furthermore, this concept has become crucial to research and business practice since of prompt depletion of disquiets over affluence inequality and natural resources and corporate social responsibility. As the interest in sustainable development grows, the cement industry essential be able to support sustainable development, environmentally responsibility, balancing economic prosperity, social equity. Cement is a vital construction material and a strategic commodity in the construction sector. Nevertheless, the cement industries are facing challenges to implement sustainable manufacturing into their products and processes. This paper is seeks to address and examine the barriers and challenge toward the sustainable manufacturing supposed to be suitable to the cement industry from the perspectives of the construction stakeholders. Accordingly, study data was collected through a semi structure questionnaire survey of randomly selected professionals in cement factory in Kuwait. The output results demonstration that crucial barriers towards practices of sustainable cement factory for instance shortage of local environmental regulations, Inadequate regulation support, political decision makers, and clients , lack of strategy to promote sustainable construction, and lack of environmental awareness by the industry.

Keywords: sustainable manufacturing, qualitative analysis, cement industry, sustainable development.

2 Introduction

Nowadays, there is a great awareness for the need for achieving overall sustainability in industrial activities. Especially, the manufacturing sector, which lies at the essential of business economies, necessity to be sustainable in order to preserve the high standard of living achieved by industrialized

societies and to enable developing societies to achieve the same standard of living sustainably. Additional, the sustainability improvement effort must consider the advantages at all elemental levels involved: economic, environmental and societal[1]. The practices of sustainable manufacturing ambitions at minimizing the effects of manufacturing operations on the environment