

اعتبارات تحقيق مفهوم التصميم المستدام في مجال التصميم الصناعي consideration for achieving the concept of sustainable design in industrial design

م/داليا خالد عبد الحميد السيد فهمي

معيد بقسم تصميم منتجات - كلية الفنون التطبيقية _ جامعة السادس من أكتوبر

Abstract

The problem of environmental protection is an urgent problem especially in developing societies, which emphasizes the importance of modernizing design concepts and moving towards cleaner production and design of eco-friendly products, which is a characteristic of the times. Recent years have witnessed significant developments in the environmental aspects of industrial product design, including extensive efforts and studies to reduce their negative impacts, requiring the design and production of many products known as eco-friendly products and putting them on the market.

Although sustainability is not a new idea, environmental concerns have begun at the international level as a result of the development of industry, technology and multiple products. Environmental problems have prompted the attention of producers and consumers to monitor and develop negative environmental impacts and to discover new techniques to prevent or minimize environmental damage. Increasing the awareness of designers and manufacturers is one of the most important fundamentals of this environmental strategy as a result of increasing environmental regulations as a result of the behavior of consumer purchase and use, prompting manufacturers to improve their environmental performance in order to survive in the global market among competing products.

Over the past 30 years, it has been proven that design for the environment (DFE) is one of the most effective strategies for companies to address the challenges of production and operations management from design to delivery of final product to the customer, providing new opportunities to solve and prevent pollution problems through the product. The concept of sustainable development can now be summed up in the use of natural resources (renewable and non-renewable) to meet our current needs without affecting the needs of future generations. When a user is thinking of buying a product s/he should consider the negative effects associated with the product during his entire life cycle

Key words

Sustainability , Design For Environment , Reuse , Recycling , Lifecycle , product life time , End Of Life



شكل (1) دوره حياه المنتج