

## Recycling Construction Waste Materials to Reduce the Environmental Pollutants

**Authors :** Mehrdad Abkenari, Alireza Rezaei, Naghmeh Pournayeb

**Abstract :** There have recently been many studies and investments in developed and developing countries regarding the possibility of recycling construction waste, which are still ongoing. Since the term 'construction waste' covers a vast spectrum of materials in constructing buildings, roads and etc., many investigations are required to measure their technical performance in use as well as their time and place of use. Concrete is among the major and fundamental materials used in current construction industry. Along with the rise of population in developing countries, it is desperately required to meet the people's primary need in construction industry and on the other hand, dispose existing wastes for reducing the amount of environmental pollutants. Restrictions of natural resources and environmental pollution are the most important problems encountered by civil engineers. Reusing construction waste is an important and economic approach that not only assists the preservation of environment but also, provides us with primary raw materials. In line with consistent municipal development in disposal and reuse of construction waste, several approaches including, management of construction waste and materials, materials recycling and innovation and new inventions in materials have been predicted. This article has accordingly attempted to study the activities related to recycling of construction wastes and then, stated the economic, quantitative, qualitative and environmental results obtained.

**Keywords :** civil engineering, environment, recycling, construction waste

**Conference Title :** ICCI 2015 : International Conference on Critical Infrastructures

**Conference Location :** Amsterdam, Netherlands

**Conference Dates :** August 06-07, 2015