



# EARTH USA 2011

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**Title:**

Design with Nature: A Design of Rural Earth Habitat Prototype

**Abstract:**

By using the renewable materials, techniques and sustainable means that are less tasking than the modern architectural types, many housing problems in rural areas could be solved on both architectural and planning perspectives. The need for an alternative idea towards providing affordable and environment friendly designs (Rural Earth Habitat Prototype RHP) become a challenge in the course of nature-human protect; hence the major target of this study is to identify the means and ideas that aim to face this challenge. Therefore, the main objective here is to build CHASSIS of rural habitats aimed to create an environment friendly habitat, including energy efficient, eco-nomy-logy designs. It provides also ideas on the effective nature management and integration in building's design and the process forward to reach the REHP. Such ecological ideas of using traditional concepts of natural integration, orientation and effective methods of harnessing the climatic resources of the sun and winds, and the building material selection and application to suit geographical and climatic conditions are among the issues discussed in this study. The major emphasis here is to utilize these natural resources effectively in design and building in order to achieve sustainability, energy efficiency and most importantly an ecological and healthy living environment with less pollution as would be discovered in the case of the REHP.