

## **Ecological Architecture and Adobe**



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### **ABSTRACT**

‘Ecological Building’ has recently been introduced into the architectural literature and in fact ecological building is being taught as a separate course in some schools of architecture. Subjects given below immediately come to mind, irrespective of their order of priority, when ecological building is mentioned. Those (subjects) are harmony with nature and utilization of nature for the purpose of obtaining maximum energy for air conditioning.

Harmony with nature means that materials used in constructions are not harmful to the environment and can easily be eliminated by the environment in short periods (1). Some materials used in buildings such as sand and gravel are obtained from river beds or by breaking mountain rocks. This way of production damages the environment. Best example of this can be seen in Beşparmak mountains which is the symbol of Cyprus

On the other hand in countries whose economies did not reach their optimum levels, there is either shortage of energy or this problem is eliminated by compensating from other investment areas. As we know the electricity, in general, is produced by hydroelectric, thermal and nuclear power stations. These types of energy production systems also damage the natural stability. Particularly, the 1986 Chernobyl disaster is still in the minds of many.

Air conditioners are abundantly used for cooling and heating in closed living spaces despite the fact that the medical world emphasizes their harm on human health.

Many countries import air conditioners and many other construction materials despite their economic deficiencies. Selling air conditioners by installment payment system may seem very ordinary but future generations are burdened with the debt incurred by the country. The objective is not to open a fight against technological devices or to prevent them from being used completely. Such technological devices will be used when necessary but should be used as little as possible.

Insulation against heat is presented as a solution to the problem described above but I believe this approach is partially correct. When the question how friendly the insulating materials are ecologically and economically is asked, the picture changes because commonly used insulation materials contain petroleum or chemical compounds and are expensive.

### **KEY WORDS :**

Ecological Architecture, Climate, Life, Residence, Adobe