Eurekabuild Workshop and Brokerage Event:

“TOWARDS A SUSTAINABLE BUILT ENVIRONMENT AND A LIVING CULTURAL HERITAGE”

ATHENS, 21 MAY 2007
MUNICIPALITY OF THESSALONIKI
EUREKA–BUILD PROJECT IDEAS
MUNICIPALITY OF THESSALONIKI

Division of Architectural Constructions

Department of Conservation and Maintenance
PROJECT IDEAS

Interventions to buildings in order to become energy self-sufficient in the frame of sustainable planning

A. Educational building
B. Building of high cultural value
A. An Educational Building

The proposed idea concerns:

- design and construction of appropriate interventions to an existing education building

Aiming to:

- create a pilot building that is going to perform as an energy self-sufficient system
- create an education tool to achieve the environmental awareness of the children
The selected building will cover its energy needs using renewable resources and bioclimatic planning. Passive systems are going to be planned, based on the principles of environmental architectural design, such as appropriate shading systems, use of materials with high thermal capacity, plantation on roofs, tromp walls, bioclimatic planning of the surrounding space.
The building itself is going to become an education tool, in order to achieve the environmental awareness of the children. Additionally, it will become a pilot project for other school buildings.
The selected building will cover its energy needs using renewable resources. The needs for electric supply are going to be met by the use of a hybrid system, including photovoltaic elements and a wind generator. Shading systems, appropriate plantation and environmental planning of the surrounding space are going to be used as passive systems for control of the micro-environment.
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