Problematic application of Green Architecture in Egypt

The issue of measuring the effectiveness of appraisal systems, green architecture in Egypt 'as a case involving the construction and environmental Bachkalaat threaten the future of Egypt, including the limited energy and frequency of crises and water scarcity and severe environmental pollution.

Which increases the importance and urgency of this issue is the absence of any formal regulatory framework stimulates the urban construction process to take the latest methods of rationalization or interest in environmental issues of local and global.

The aim of the message in the base to the output of a scientific system to assess green architecture are easily applicable and appropriate Egyptian reality and at the same time achieve the goals and aspirations of the community development.

The study is divided into three parts - the first part study to review definitions and concepts of green architecture have been identified, including the principles of green architecture, and analysis of these principles has been inferred some criteria for evaluating the buildings, which help in the work of the proposed system.

As well as reasons for concern for the environment, including global (energy crisis - global warming), including the local (global problems as well as to reduce Egypt's quota of Nile water), being an influential factor in the development of relative weights for each item in the proposed system.

Then study the trends architectural interest to the environment of the local architecture environmental and local hybrid and architecture and organic architecture of solar (negative - positive), architecture and smart architecture energy-efficient and sustainable, and study it became clear that green architecture is more trends appropriate to overcome the current problems.

And study some of the systems evaluating the global, which is characterized by spread of atomic: LEED United States of America, BREAM the UK. Green Star in Australia, system CASBEE Japanese system and the pyramid Green Egyptian GPRS (experimental model), and analysis of these systems has been inferred criteria and weights pilot can be used for the evaluation work and determining the levels of certification, and weights in the proposed system to evaluate green architecture in Egypt.

The second part of the conclusion through analytical study to evaluate the proposed system, green architecture in Egypt applied the principles of green architecture and the beneficiary of evaluating the global systems, taking into account appropriate with the economic conditions and to address the problems faced by the Egyptian society.

The third part: study the application of the proposed system applied to assess green architecture in Egypt to measure the suitability for the realities of Egyptian have been applied to a group of buildings hotel buildings, residential buildings, library buildings and buildings research.
The most important results: it can be applied to assess the Egyptian system, green architecture in the buildings without costly and follow the local roads in the building with a little technology, such as the new community Basaisa.

Green architecture, an overall concept may not be hashed or use some of its parts to strive for compatibility with the environment, reduce the negative impact of it, achieve energy efficiency, use renewable energy sources, in addition to, the efficient use of materials, resources, re-used again, to respect the site and interact with, adapt to climate conditions and provide comfort for users.

The main recommendations: Recommendation institutions and official bodies in the state need to update laws, contain the items concerned with the environment and require the implementation of the Green Building Code, in order to protect the environment and prevent infringements.

As well as, the recommendation of the educational and academic institutions need to develop a culture of preservation of the environment to solve problems that threaten the community, so it has to be the work of the Foundation publishes thought environmental and green architecture of educating students, through the work of conferences, seminars and lectures to make them aware of the impact of their decisions on the environment.