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## Today's approach to sustainable development in buildings

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### Abstract:

In the long term sustainable design is not an option because we have an obligation to destroy resources, water, and we've paid our country; contaminated land and the future, we have made and the disastrous results of this process have been ignored. Accordingly, one of the recent issues raised in the architecture, sustainability and therefore the design is in accordance with the environment. Term sustainable architecture or architectural environment to coexist in a complex architecture sensitive nature, refers to humans and artifacts. Today's puzzle environmental objective and organized sustainable balance between nature, environment and living organisms are built. Under the plan OECD, building sustainable buildings are considered less damaging effects on the built environment (artificial) and natural surrounding, the area around the text and background as well as their own general.

Therefore, to achieve sustainable architecture is not possible unless the field with emphasis on integration. Field-oriented architecture on earth orbital space environment and the link is highlighted and understood your message bed is formed. In fact the message that context, he transferred to the architecture and design brought to objectivity. As a result a small part of nature surrounding the building will be. In this architecture, each building on areas of cultural, social, historical and physical, climatic and site specific conditions and construction Design and construction are compatible with the ecology and member coordinating element in their bed and ultimately in the context of the environment will be. The research on that field as one of the abiding principles of sustainable design and architecture in the area to introduce environmental sustainability. This qualitative research study

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carried out a descriptive research method and data gathering tool of objective observation and study of written sources, is documentation.

## Keywords:

Sustainable architecture, sustainability, environment, field integration, design, context, text, ground, nature

## 1-Introduction

Picture the natural human environment that today's limited green space instead of face to face in cities is illustrated by the deep needs of human nature, and perhaps ultimately the idea is simple in which man and nature, they depend to it. No human harmony with nature, life is not possible and should be bound by its principles that the mechanisms working mechanism between the nature of the battle. Although much of the industrial age human difficulties solved, but unfortunately, the logical relationship is severed human environment. Limited natural resources, human as the indiscriminate use of it poured everything will be disrupted so that the risk for future generations very serious crises have been predicted. During his human cultural evolution, various activities to address their needs began almost all of them require changes in the environment. Living environment for the collection of balances on any of the Buyer and balances, undermines the guarantee of life. Environmental problems can be social, economic and political important for governments to create.

Comparison between the supremacy of thought to live in the lap of nature and of nature, the mind needs to be brought to comply with nature. Over three years, the human relationship with the natural world occur because of a wide range of environmental crises, the category-specific categories and are sometimes annoying, and resulted in the patterns of development that is looking less damage to the environment ability to enter and be continuing and continuing.

## 2-The concept of sustainability

Term sustainability today widely to describe the world in which human and natural systems, simultaneously distant future be able to survive to be used. Word about their ecosystems and maintain their level of compensation that have a certain tolerance, is used; system that actually will lead to sustainable ecosystems. Living

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populations, communities and ecosystems, to restore strength and contrast changes and the effects are foreigners; other words, they have stable power. Stability in a system represents the fundamental continuity in time. However, this stability only comes to effect change. You routinely, matter and energy gained can be lost. But your body throughout life to maintain a steady state is. Stable, naturally continued as a power recovery system to deal with a foreign adversity is described from the system, its structural condition over a long time to maintain.

Term sustainability, the concept has been defined: stable means stable, durable and make the thing that stays constant, sustainable stability phenomena caused lasting pattern, technique or phenomena in the system over time is long. In this case, their primary features of the phenomenon with all its material and immaterial stays the same, but in each period based on single and stable pattern is repeated and will continue this way, the frequency and refrequency, their reform In each course will try to coordinate as much with its surrounding.

Literary withdraw the word "environmental sustainability" create an environment for human settlement, more live, work and activities that feed materials used are done continuously. Term stability to minimize the cost of necessary resources, to prolong life does not reflect, but also expresses the fact that no environment is created by humans without the participation of a natural environment or ecological system can not survive and will survive.

## ۲-Principles of Sustainable Design

The main goal of sustainable design, enhancing people's quality of life and comfort are, considering the fact must be stated that high quality and comfort, is a concept in a long time to be broad and environmental sustainable admitted it stated at the community level.

- recognition of the environment:

The most important thing at the beginning of a sustainable plan, understanding the environment is in the process of design. Need for a properly designed building can accurate knowledge of the environment we have. It should identify the location and access in making the site, according to exposure to sunlight, wind direction and ultimately awareness of possibilities and restrictions in the environment is.

- relationship with nature:

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Building, located in any place to which should be designed such as details of the General Plan so that it eventually could be part of a natural ecosystem cycles considered.

- understand the environmental impacts:

Sustainable design process, should be evaluated and an analysis of impacts on the surrounding environment so that the building will be the type of structure, how to use sustainable materials, and negative environmental impacts on the energy cycle may examine.

- Understanding people:

Sustainable design should pay special attention to cultural traditions, customs and people of that region is based on the design, understanding of people do their living environment.

## ξ-Sustainable Architecture and its objectives

"After agriculture, the building's second major industry in the world. Pollution caused by cooling of buildings and building construction materials, pollution from cars and goes beyond all conducive sources, quickly uses".

Sustainable architecture for this purpose can not be considered an architectural style in this puzzle, but a smart approach is considered in the design so that it can reduce energy consumption and natural fuels and optimize use of natural energy resources is emphasized. Sustainable Architecture, the only framework for sustainable buildings does not work, but its ultimate goal is to create stability on the planet.

Building Research International Research Organization (CBI), four objectives as sustainable architecture has made.

- reduce consumption of primary sources
- Reuse of resources
- Use of renewable resources
- Environmental Protection

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## ◦-Sustainable Design Principles

Concept of space: Sustainable Design with full identifying locations starts. If we compared the effects and characteristics of sensitive sites, we can create it without fail and damage choosing inhabit. Identification procedures designed to determine location, such as for building exposing desired position, protecting natural surroundings and access to public transportation helps.

Relationship with nature: whether design or construction within the city in a natural environment, sustainable relationship with nature led to the building is designed.

Understanding of natural streams: the nature of anything not wasted, a byproduct of organic structure, is food for other creatures. In other words, natural systems is a closed cycle by cycle, we can work with all species need to answer. Applying cycles can be restored rather than destroy, cause to return to life will be sustainable design.

The concept of environmental impact: sustainable design by the assessor is trying to place, energy and toxic materials, saving energy, materials and construction techniques to reduce the impact on the environment, the concept of reach. Negative impact on the environment with sustainable use of construction products and materials in the production and implementation will produce little toxic materials and are recyclable reduced.

Understanding People: sustainable design considerations must be cultural, ethnic, ideological and habits of people who want to use the built environment or the residents will be considering. This sensitivity and accuracy than many people and the community needs to demand.

## ٦-Sustainable Building

Sustainable Building to create and manage an adequate resource base and so called ecological rules. Aim of sustainable buildings that are designed to reduce the combat environment in terms of energy and resources is necessary, therefore, includes the following principles:

- reducing consumption of non renewable resources
- increase the natural environment (nature)
- remove or reduce harmful drug use

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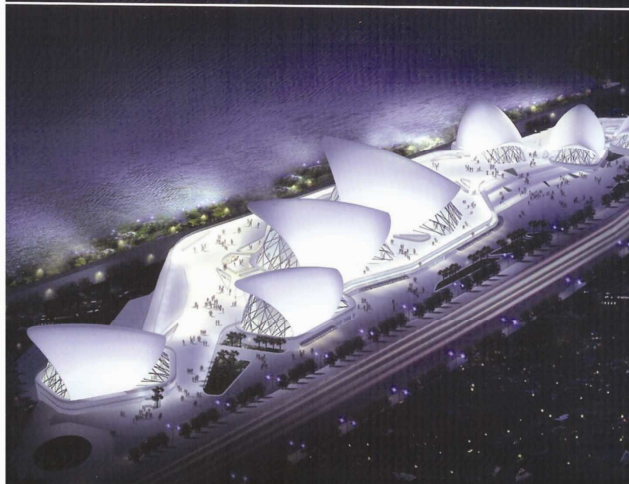
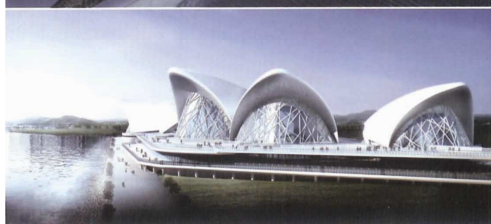
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According to Project ECD, sustainable buildings, minimum deal with the natural environment, both in terms of area and local development and what the terms have the overall appearance. Sustainable Building may be a vast area as the building in order to increase the quality (including economic and natural conditions and social and environmental conditions) is trying. Be introduced. Therefore, prudent use of natural resources and construction materials and storage conditions for scarce resources, reducing energy consumption and improve the natural environment provides.

## Y- Sample Item \ - Design Museum Nations

Original ideas and design features



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Kish Island is a great corals and coral fauna counts of categories. So on that site that we design, the living corpse of a giant. Designed in such a great site link admitted as a member of the body is a living museum and plan such a building are made, how critical is the link to the main body careful not to harm. So must plan and site features have been around the island of Kish, and accept it as part of their own knowing. Different scenarios using a variety of sea creatures and natural about it and can live next to a special welding and gave it as the creature alive and active in their interaction with the substrate that is required to form symbolic of course occur.

Whole form resembles a certain type of sea shell white pearl in it, there have as a valuable inventory of the deep sea bed united and show the link and their dialogue is. The space around and inside the shell geometry similar to the influence of sea star and a wide space on the outside of the water factor is linked continents, has created an atmosphere as if the oysters are raised from the sea. Five areas of the symbolic five continents of the world if bulk naturing designed and simulated in the heart of the coral rocks around the oysters are indicators identity and place have been Kish. Continents geometric role as atrium water blue roof that they can be seen when entering in each field are high, is dedicated. It should be mentioned around the geometry of the golden spiral nature of the structure of many shells and sea creatures and reptiles can be seen, is inspired.

Other special features of the plan can be a 1- the maximum productivity of Morphology 2 - compatibility with the climate zone 3 - alignment with human and natural environments named. General nature and architecture, bringing green mussels and integrating it into the technology world with a view ethical tells about the nature and needs one to Kish Island is being raised on a global scale, including cases in which an index scheme has been considered. Generally makes up the green architecture design capabilities to create humanitarian space with comfort and peace of mind and comprehensive symbol of peace and balance is in the communities. Overall the project should be able phenomena such as rocky relationships, land, and water clarity in order to introduce its own identity and get to the idea of dialogue and united show.

4- sample 2 - Ideal Design theater - Design Group Aura Iran

Scheme, inspired by natural forms and using a concrete shell arches to form the entrance hall - the same quality of high Iranian Ivan - formed. The reflection of the

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water through the form, it is full. Designs with natural lakes around the site is fully coordinated. Main Hall with regard to different species specific acoustic performance with details designed to allow reaction time to adjust the sound. The ground floor interior spaces mainly for the main hall and the side needs is considered. Open area opposite the entrance porch, entrance hall, service areas for guests and spectators, on one hand and the spaces behind the scenes, such as makeup room, clothes room repair director and the green room (actors room to relax and focus before the run) and the spaces available, On the other hand have been built. Below Ground floor access, on the other hand have been built. Below ground floor for educational activities, exercises, music and theater... Screening and small conference is intended. Construction of warehouse and workshop equipment as well as scenes were in the basement. And through my truck and lifts way Barber and outside the main hall to communicate.



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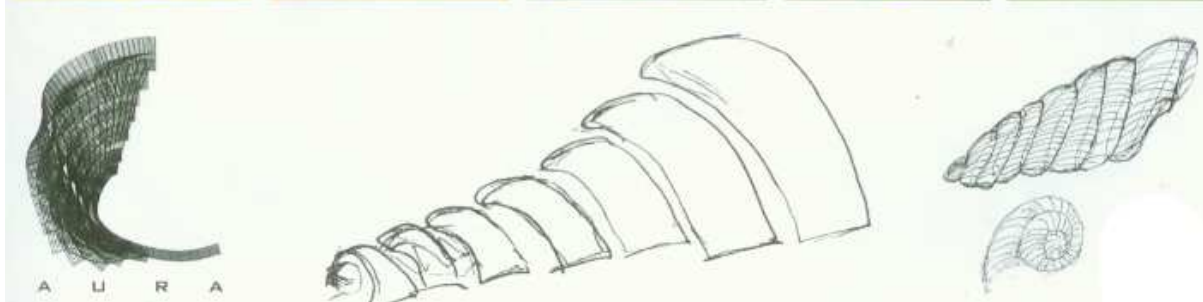
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The banner features a blue background with a white city skyline at the bottom. On the left, the text '5th SASTech Iran | Mashhad May 12 - 17 | 2011' is displayed in red and white. In the center, there are vertical binary code strings (010101, 1110, 001010) and a circuit board graphic. On the right, there are icons for 'RESEARCH Tech', 'Communication', 'Email', and 'Center' along with a satellite image.

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## 9-Conclusion

Between environment and human environment, both built after regional or global dimension is internal communication. So any change in any part of this system affects the whole system. Therefore, design must be done Perspectives Alliance Global Sources. (John Raskyn)

Dare to say to one of the major reasons for the environmental crisis the world today due to less attention to the link and balance the environment and lack of human, architectural and urban environment is.

On track to reach the puzzle link with sustainable environment and continuing physical and non physical values context, site and admitted the existence of the architecture will be essential and inevitable. On this basis according to physical areas, geographical and historical climate of social and cultural background and understanding of architectural environment and receive important messages in context of the principles of architectural design is stable.

This architecture will not be against the environment, but also balance and its link with the special features background knowledge while respecting nature and the environmental use of the environment and its potential as a productive force thinks.

Undoubtedly, the architecture merely profit attitude towards the environment and only uses environmental resources without its positive effect on us to put points clear and will not destroy the environment are brought into abyss.

In achieving sustainable architecture all the important points should be noted whether abiding in the field-scale integration and build your site, whether it is raised in the region, whether on a global scale.

In this case the process of architectural design must be reread to identify the areas to be more emphasis in the beginning. On the other hand the results of this knowledge should affect the design architect and he will lead toward sustainable architecture.

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