

## Relationship between architecture and climate and its impact on the energy consumption in Iran

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### Abstract

Taking a look at contemporary architecture in our country shows that, we have been doubly wrong because following the architectural culture of the West, because not only in view of the architecture, we have committed the error of westerners, but we also have implemented their absurd architecture with lower quality. Iranian architect is one of the most successful examples of architecture combined with nature and is carefully mixed with nature as if is a part of its context and part of the natural environment. So there is no doubt that every building should be able to communicate the natural environment in which it is built. For example, the effect of geometry of the plan, the architecture volume, windows, ventilation and insulation on energy consumption of air conditioning and heating and lighting, how building orientation, how placement of spaces, improving the methods of insulation with minimal cost, can improve the efficiency of the settlements. It can be concluded that, by developing criteria for the different ecological zones of architecture, as well as the application of these criteria in their design, we can achieve major reductions in building energy consumption and energy efficiency.

**Keywords:** architecture, climate, energy, consumption

### Introduction

Contemporary architecture in Iran due to the rich history of art and architecture has always been to follow the architectural culture of the West and this is a huge mistake on the behalf of architects. With

the passage of time, often buildings are built with lower quality. Architects were wrong when they were followed by West architecture while it was not to be compatible Iranian culture.

International modern architecture providers say that its universal style is the result of rational behavior with design, materials and new techniques. It is said that stunned spectators can be considered these as new forms and empty of functional, economic, heritage or dictated by the materials and innovative techniques. But these are simply the logic considered due to seeking styles, of course, it always has been tried to hide the truth from the people and avoid introduce them as style. [1] With regard to the development and growth of the current architects and getting past experiences, the best time to begin the architectural design is along with Iranian-Islamic culture and is consistent with climate in each region.

### Iranian architecture

Designers and architects may respect the principles of sustainable architecture, ie the preservation of natural energies, reducing the use of fossil fuels and the environmental and climate co-existence. So thinking about sustainable architecture and its principles will guide us to vernacular and old architecture of this land, because the architecture of this land in climatological conditions have been able to create the best harmony with the environment and using their limitations and facilities, have provided the best conditions of life for users. [2]

Vernacular architecture represents human effort to interact with the environment and nature, and the site of the manifestation of culture, ideas, customs and knowledge and the techniques used by people past and present. [3] Iranian architecture is one of the most successful examples of architecture in combination with nature, and is carefully mixed