

The origin of smart facades for Iran national libraries buildings design on basis of sustainable architecture

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Abstract (Times New Roman 14pt in Bold)

Sustainable architecture is [architecture](#) that seeks to minimize the negative environmental impact of buildings by efficiency and moderation in the use of materials, energy, and development space and the ecosystem at large. Sustainable architecture uses a conscious approach to energy and ecological conservation in the design of the built environment we were seeking to achieve the requirements for designing facades of national libraries in Iran on the basis of modern and smart technologies to enhance the efficiency of national library quality. we analyzed some of the best smart facades that were near to our region.

Key words: sustainable architecture, design, smart facades, national library, case studies, Iran

1. Introduction

Since unfortunately in Iran there are not many smart facades, and those that exist are in small scales so they cannot be as a source of information to gain strength and weakness points to extend into the design of smart facades for National Libraries in a wide range considered. On the other hand, in recent years Iran's neighbors specially UAE Arabic have payed special attention to ecological issues and climate, and also the use of innovative intelligent technologies and in this field. They are so successful in this field as far Albahar Tower Dubai has been among the world's top smart facades. Of course, the design and construction of sustainable Masdar City near Abu Dhabi, is another testimony to this claim. Given the fact that Iran and the UAE in terms of religion, culture and climate has some common sense, so the analysis of the mechanism, separation and classification of the constituent elements of superior smart facades including Albahar