عنوان مقاله:

The Necessity of Designing Green Buildings in Middle East

محل انتشار:

سومین کنگره بین المللی معماری و شهرسازی معاصر خاورمیانه (سال: 1396)

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خلاصه مقاله:

The depleting sources of fossil energy, the air pollution and the hazardous diseases caused by different types of pollutions force us to apply renewable sources of energy in all aspects of life. One of the most energy consuming parts of contemporary life is building industry. Therefore green buildings as the most energy efficient building systems can help to decrease the consumable amount of fossil energy intensely. In fact, green buildings reduce the air pollution and CO2 emissions produced by inappropriate usage of fossil energy sources by applying active and passive solar systems, geothermal mechanisms, wind power and etc. Green building systems represent sustainable buildings and infrastructure facilities via utilization of renewable energy sources. Also, they reduce the maintenance costs of buildings by producing energy from free sources of energy. On the other hand, Middle East, as a fast growing part of the globe demands to be constructed in a modern wise way. The great volume of construction in the Middle East indicates the high necessity for designing green buildings in this area. In this article, the various advantages of design and construction of green buildings is explored by describing the advanced technologies of green buildings. Also the urgent demand of new Middle East to these energy efficient and purifying buildings is studied. In addition, some green building case studies are analyzed in order to demonstrate the functional positive effects of applying green buildings in the Middle East.

کلمات کلیدی:

Green building, Sustainable Architecture, Middle East, Green Architecture