

عنوان مقاله:

Energy and environment sustainability in architecture of modernmega-cities : case study of Iran

محل انتشار:

ششمین کنفرانس بین المللی ایده های راهبردی در معماری، عمران و شهرسازی ایران (سال: 1402)

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خلاصه مقاله:

City planners have traditionally concentrated on concerns like aesthetics, land use,transit, and other such topics. Have given the subject of energy and its ideal use incities less consideration. It is not a good idea to utilize fossil fuels as fuel sincethey are scarce and their overuse has harmed the ecosystem. City planners haverecently become interested in the design of cities with low energy usage, likeMaster in the UAE. Optimizing energy use in residential areas is essential in a citylike Tehran, which is grappling with several environmental issues. Everyone alsoagrees that energy is one of the most significant national capitals and that usingnatural energies and putting them to use will be crucial to maintaining theenvironment for present and future generations. In order to replace renewable and sustainable energies (sun, water, wind, biogas, etc.) while minimizing environmental pollution and energy waste, the majority of researchers aim to make a substantial influence on the economy. Energy management is particularly important in the construction business due to the rise in energy consumption, and it is required to offer practical solutions to lower energy use, avoid energy waste, and lower building construction and operation costs. The concept of energy efficient and environmentally friendly structures in architecture and sustainable urban development has received significant worldwide attention in this respect. New generations of structures without fossil fuels are referred to as low energy buildings. These structures have the benefits of raising energy efficiency, conserving energy, and cutting waste. In order to advance in the direction of reducing energy waste and optimizing the economy in the relationship between architectural design and sustainable urban development, this article introduces solutions to optimize energy consumption to architects and activists in the field of construction using library resources and the descriptive-analytical research method.

کلمات کلیدی:

Sustainable buildings, Energy efficiency, Environmental impacts, renewable energy, Iran

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