عنوان مقاله:
Sustainable Architecture Role in Achieving Energy Efficiency

محل انتشار:
همايش تغيير اقلیم و راهی به سوی آینده پایدار (سال:1393)

تعداد صفحات اصل مقاله: 11 صفحه

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خلاصه مقاله:
Energy consumption in buildings is a large share of the world’s total end use of energy. Residential and commercial buildings require approximately 50% of the end use of energy, in addition to this energy is used for buildings also in the industry. In this context the paper proposes the energetically analysis for a small scale modern station, providing solar heat to a solar building with 2 floors, located in the city of Isfahan, IRAN. The paper describes the location, size and thermal regime of the solar building; there are also presented the heating system facility and equipment components, designed for the solar building located in Isfahan Museum Park. Based on the achieved simulations it is shown that compared to the ordinary control the energetically based control provides remarkable advantages and savings concerning the auxiliary heating energy. This result should be valid for any systems similar to the particular one in Isfahan.

کلمات کلیدی:
Renewable Energy, Sustainable Architecture, Temperature, Solar Buildings

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https://www.civilica.com/Paper-CCHFGG01-CCHFGG01_002.html

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