

عنوان مقاله:

APPROACHING TO NZEB BY PROPOSING TECHNIQUES IN AN OFFICE BUILDING

محل انتشار:

سومین کنفرانس بین المللی رویکردهای نوین در نگهداشت انرژی (سال: 1392)

تعداد صفحات اصل مقاله: 9

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خلاصه مقاله:

The concern for energy savings is increasing in the world. Buildings have great potential for energy savings, and in this scene, the European Union¹ is trying to regulate the rules of its member states. In 2010, a new directive was published, which will help reduce EU buildings energy consumption in the long run. A requirement that all new buildings must be net zero energy consumers by 2020 has received the most attention. Based on the energy balance sheet, annually more than 40% of energy consumption is directly used to serve the needs of building sector in Iran. Most of the studies in this area show that more than half of this energy goes to waste for different reasons. The main aim of this paper is to offer techniques to approach Net Zero Energy Buildings² in Iran. Thus, through energy auditing of the office building of Electric Power Distribution Management in Malekan city, this facility was considered for its energy consumption and different techniques for energy consumption optimization were evaluated technically and economically and the best of them were proposed. Also the possibility of using renewable energies to serve energy needs of this building has studied.

کلمات کلیدی:

NZEB, economic evaluation, electricity consumption, energy consumption optimization techniques, natural gas consumption, renewable energies

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