

Nearly Zero Energy Building: Analysis on How End-Users Affect Energy Savings Targets

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Abstract : One of the most important energy challenge of the European policies is the transition to a Net Zero Energy Building (NZEB) model. A NZEB is a new concept of building that has the aim of reducing both the energy consumption and the carbon emissions to nearly zero of the course of a year. To achieve this nearly zero consumption, apart from being buildings with high efficiency levels, the energy consumed by the building has to be produced on-site. This paper is focused on presenting the results of the analysis developed on basis of real projects' data in order to quantify the impact of end-users behavior. The analysis is focused on how the behavior of building's occupants can vary the achievement of the energy savings targets and how they can be limited. The results obtained show that on this kind of project, with very high energy performance, is required to limit the end-users interaction with the system operation to be able to reach the targets fixed.

Keywords : end-users impacts, energy efficiency, energy savings, NZEB model

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