

The various aspects of an ecological house

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Abstract/Résumé : The total energy balance sheet of Algeria of the year 2009, shows that final energy consumption is evaluated to 30.98 million TEP (ton oil equivalent) [1], and emphasizes an prevalence of the energy consumption of the sector of the households is more than 41% compared with 19% for the sector from industry and 33% for that of transport (Figure 1). In this article, we present an analysis of the different balances sheets of a house in urban environment. We identified the energy sources of losses, as well as the possibilities of energy saving for this building. The results obtained are compared with the same house but built with more respectful ecological materials of the environment, the aim is to have an exact idea over the made savings, the needs for heating and cooling, the CO₂ rejection, the carbon balance sheet and the time of damping. (c) 2011 American Institute of Chemical Engineers Environ Prog, 32: 109114, 2013.

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