

Abstract

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Energy Saving Through Smart Home

Energy saving is considered as one of the most important issue affects the consumers, power system quality and the global environment. The high energy demanded by home appliances, air conditioning and lighting makes homes to be considered as one of the most critical area for the impact of energy consumption. Smart home technology is a good choice for people not only care about security, comfort but energy saving as well. In this paper, a smart home energy management technique based on a set of sensors is presented. It minimizes the domestic energy waste and can be adapted according to the user habits. A proposed scenario is reported of daily routine and performed by 16 steps. Three assumptions of varying the time spent in each step according to different behavior are examined. The effectiveness of the proposed set is shown based on a static correlation between the power consumption and saving.