

# **An Efficient Energy Management in Buildings Using IoT – A Survey**

Abstract:

Despite so many efforts made to forestall energy crisis in the past, the present-day energy problem is getting worse by day particularly in Africa. To overcome this situation, researchers are developing various energy efficient methods, among these methods, efficient power consumption is imperative. With the rise in power consumption in every part of the world and the subsequent amount of power theft, over usage of power, and unnecessary power wastage, it becomes obvious that electric power consumption in buildings need to be monitored and controlled. Efficient energy management will go a long way to help both the consumers and the power utility company and will positively impact the looming global energy crisis. The advent of Internet of Things (IoT) technology is advancing automation of systems by infusing intelligence into many processes. In this paper, a critical survey of IoT based automated energy management in buildings is presented. The paper reviewed various IoT applications in the area of building energy management and the recording of energy consumption data, which we consider very important in system planning and rehabilitation.

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