

Smart Energy Management and Overload Control of Hostel Management using IOT

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Abstract: *In this project we introduce energy management and automatic controlling system for hostel rooms. We see in hostel user needs to utilizes common load. But many times, some people may use extra power for their unnecessary uses like ironing, water heater, home theatres, induction etc. so common load & respective light bill may increase due to few of people and that bill have to pay by all. So, to overcome this scenario we introduce a smart energy meter which place on each room to monitor load consumption. And units of all rooms will be monitor on IOT web server. When any one uses overload equipment's then 2 warning SMS send on respective room owner mobile number. &after 3rd warning supply automatically breaks. Smart Power Monitoring and Analysis is aimed at developing a solution to keep track of every electrical appliance and monitor the energy used consumed by an Android device. As mentioned, this study's main problem statement is that most of the power meters installed in any hostel showed the total consumption of the electricity used. So, with the upcoming of machine-to-machine communication where devices can be connected wirelessly leading to IoT, we here have developed an IoT based Smart Energy Management system.*

Keywords: Energy Management, Current Sensors, IOT webpage, GSM-Module, Hostel Room Energy Management

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