

# ABSTRACT

The smart light energy management systems its control and automation in buildings has significant role. These systems can play an important role in regular energy monitoring and management and therefore to save the possible energy and cost. Using this we can minimize the consumption of electrical power. We know that power crisis is a one of the most common problem. With the help of this project we can eliminate this shortage by minimizing the wastage of electrical power or saving our generated power. Using (pir sensor ) is that type of sensor that gives us signal when anything cross it ray. It is an electronic sensor that measures infared(IR) light radiating objects in its field of view. The basic aspect of this project is when someone comes towards the place it dectect the person and due to which light glows and when it leaves the light will turn off. Apart from that the wifi modulus (ESP8266) sends the data to the cloud to helps us understand by showing graph it helps us determine the no of person into the room. Relay module acts as a switch and turn the bulb on or off when requird .this project is helpfull in the security system in many office there are pavements where lights keeps switch on for all night and day but when using this project reduce the energy consumption as energy is essential for your future & reduce the coast of the bill.

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