FINAL YEAR PROJECT REPORT

AUTOMATIC ENERGY CONSERVATION SYSTEM (AECS)

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Abstract

Automatic Energy Conservation System (AECS) is basically a system which has an ability to monitor the power consumption of homes or workplaces, it also has an ability to check the human presence at the location and can control low priority devices to conserve energy. This system is designed for both organization and domestic purpose, because of the different domestic and organizational environment ,working hours of the offices are normally from 8-10 Hrs., after the office timings no one be there to switched off the lights and as a result lights remain turned on which causes the power dissipation, but if we see in the domestic use there are no such restrictions to turned the electrical appliances off in a limited time frame .This system works on the real time information gathering from the sensors and take the decision accordingly, whether the devices should be turned On or Off. AECS provides a user friendly GUI based application through which user can easily control power issue in their working or living environment by checking the status of the devices, control the load of the devices and system can also generate notifications to alert the user related to power overloaded devices etc. Low priority devices can be automatically controlled by the AECS; Sensors detect the presence of human body and report to the AECS. Devices can also be control by AECS remotely using GUI of the application.

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