



Smart Appliance Control for Building Energy Management



A. Problems

- Lack of availability of a smart solution for management of building energy system
- Insufficiency of monitoring the health of an electrical appliance
- No provision for reducing electrical energy consumption by users

B. Solution

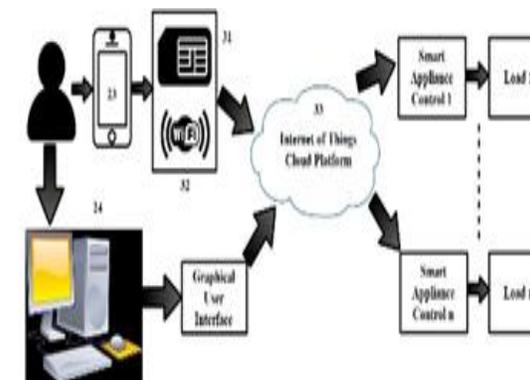
- An appliance control device is developed for operating a plurality of appliances in a building to manage building energy system
- It provides a system for data logging and monitoring health of an electrical appliance
- It allows time based scheduling of switching ON/OFF of a plurality of appliances and reduces overall energy consumption

C. Features

- A plurality of appliances can be operated in various operating modes as per the requirements
- The device provides data logging for individual appliance
- Health of appliance (whether on/off has occurred or not) is monitored and a notification is sent to the user
- Allows a manual control of a plurality of appliances, in an event of failure/malfunction of the appliances control device

D. Advantages

- Time based scheduling of switching ON/OFF of a plurality of appliances to reduce overall energy consumption
- IoT/Cloud server/wi-fi/GPS based control is provided
- Increased user convenience
- Less installation cost



Controlling of Building Energy Management

- Indian Patent filed
 - Technology Readiness level-6
- Looking for Industrial partners for commercialization**