

ABSTRACT

One of the crises that Filipinos are now facing is the continuous increase of electricity bills that was paid every month. One factor of having high electricity bills is the poor monitoring of electricity consumed. By providing the data and materials needed in observing the electricity consumed, not to mention what the latest technology can do, the crisis that Filipinos are now facing can be solved

Real – Time Energy Monitoring and Control System Using Arduino Platform and Android Application is a thesis study that displays the real – time energy consumption of the user’s household plus its total cost on an Android Application, and at the same time, has a software application that allows the control of a major household load. The goal of this study is to minimize the electricity consumption of the user by providing the awareness of the cost they consumed every day.

The study was conducted using Mixed Methodology – where both quantitative and qualitative researches were used to provide a solution to a problem.

By monitoring the cost as well as by controlling one of the major loads that causes escalation of electricity bills, combining it with discipline among the users, it will be a great help in energy conservation and budgeting for the user.