DESIGN OF REAL TIME ELECTRICITY MONITORING BASED ON WEBSITE

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ABSTRACT

This study aims to provide information visually about the consumption of electrical energy and provide notifications when consumers have passed the limit of electrical energy consumption that has been set previously and to know the peak load time of electrical energy consumption. The benefits of this research can increase public awareness in the use of electrical energy consumption to be wiser in using electrical energy. The method used in this research is based on the Internet of Things (IoT) which can send electrical energy data and can be stored in a database and then displayed on a website in real time. From the research that has been done, the Website-Based Realtime Electrical Energy Monitoring tool has succeeded in monitoring and controlling the electrical energy load through the website in real time. With the results of the average percentage error value of voltage: 0.5%, current: 1.55% and managed to display the values in tables and graphs in Realtime on the Website and display the value of electrical energy data on the LCD (Liquid Crystal Display). Then provide solutions and actions in case of excessive electrical energy consumption.

Keywords*: Energy, Electricity, IoT, Monitoring, Realtime*