

ABSTRACT

ANALYSIS SAVING OPPORTUNITIES IN ENERGY CONSUMPTION IN THE ELECTRICAL SYSTEM EQUIPMENT LAMPUNG UNIVERSITY FACULTY OF AGRICULTURE PROGRAM USING VISUAL BASIC 6.0

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The energy saving effort required to perform a saving. It is necessary for the existence of an audit energy, which is an analysis of the energy consumption of a building. With an energy audit, energy consumption patterns can be seen, the energy dissipation occurs, and look for possible savings that can be achieved. In this thesis, an energy audit done on lighting system, air conditioning systems, and other electrical equipment in the masters of agribusiness building, masters of agronomy buildings, agribusiness buildings, agronomy laboratory buildings, the building of livestock and fisheries, agricultural engineering buildings, agricultural technology and seed laboratory buildings, sciences laboratory and pest plant diseases laboratory, faculty of agriculture mechanization and agricultural hall university of lampung.

The process of energy audit done in stages is preliminary energy audit activities include data collection and compilation of historical buildings of building energy data and not require measurements. Then proceed to the detailed energy audit if known that the Energy Consumption Intensity (IKE) is greater than the value of the IKE standars set by the National Standardization Agency (BSN). Then proceed to identify energy saving opportunities.

The results of the energy audit has been done shows that, not be a waste of energy but the energy consumption is not only wise. It can be seen from the value which is still below the standars that 42,33 kWh/m² per year based on account data, while the standards set for buildings that 240 kWh/m² per year. Therefore, a detailed energy audit necessary, only remains to opportunities efficiency and saving electrical for users in each room.

Keyword : Energy Audit, Energy Consumption Intensity (IKE), National Standardization Agency (BSN)