

***Electrical Energy Audits On System & Fabrication
Area di PT Intidaya Dinamika Sejati Workshop Jember***

Ir. Michael Joko Wibowo, MT (Thesis Supervisor)

Moh Rizqi

Study Program of Renewable Energy Engineering

Departement of Engineering

ABSTRACT

Based on Government Regulation Number 70 of 2009 and Minister of Energy and Mineral Resources Number 14 of 2014 concerning saving energy to deal with the energy crisis in the future due to wasteful use of energy. This research was conducted to analyze energy saving opportunities at PT Intidaya Dinamika Sejati, especially in the system & fabrication area which has a high enough energy consumption level to operate machines and for lighting using lamps or using an air conditioning system in the form of a blower. Calculation of the Energy Consumption Intensity (IKE) value for the past year starting from the period April 2022 to the period March 2023 it can be seen that the intensity value of electricity consumption per unit area is 2.198 kWh/m²/year. The IKE standard for non-air-conditioned buildings is 3.4 kWh/m²/month or 40.8 kWh/m²/year. Therefore the value of Energy Consumption Intensity (IKE) in the Workshop System Fabrication & Area Workshop PT Intidaya Dinamika Sejati Jember is very efficient according to the standards set.

Keywords: Energy Audit, IKE, Energy Saving

