

Audit Energi awal dan Peluang Penghematan Energi pada Gedung RSUD Besuki (*Initial Energy Audit and Energy Saving Opportunities at Building RSUD Besuki*)

Muhammad Firdaus
Renewable Energy Engineering Study Program
Engineering Departement

ABSTRACT

Energy audit is one of the decisive factors in operational costs at RSUD Besuki. Energy conservation is a more efficient, optimum, and rational use in utilization of energy with out reducing the use of energy in need. Initial energy audit is an initial method of calculating the energy consumption level of a building. The purpose of this study is to determine the value of *IKE* (intensity of energy consumption) of buildings in RSUD Besuki. The calculation result of *IKE* value (Energy Consumption Intensity) per unit area is 73.1299 kWh / m² in a year. Energy consumption in RSUD Besuki consists of 97% electrical energy and 3% diesel fuel. Energy saving opportunities that can be done is by replacing 24-watt PLC lamps to 13-watt LED lights.

Keywords: Energy Audit, Energy Conservation, Initial Energy Audit, Energy Consumption Intensity.