

**AUDIT AND ENERGY SAVING OPPORTUNITIES IN THE JEMBER
STATE POLYTECHNIC HEALTH DEPARTMENT BUILDING**

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ABSTRACT

Energy audit is an activity in the context of conservation or saving energy. An energy audit is done by carrying out observations and calculating data at a research location to find possible energy waste, then planning, analyzing and providing recommendations for appropriate steps or methods to make energy use at that location more efficient. The main objective of this research is to analyze and determine the intensity of energy consumption, determine the criteria for the lightning system, and analyze the air conditioning system in the Health Building. From research conducted over 3 months starting from January-March 2024, it was found that the Energy Consumption Intensity value in the Health Building was 2,68 kWh/m² which is classified as very efficient. The air conditioning system is still not perfect because the room temperature is in accordance with standarts but the humidity is still not in accordance with existing standarts, and the lightning system is still classified as defficient. From the research, data was also obtained that the costs that need to be paid by the Jember State Polytechnic specifically for the Health Building are IDR. 10, 880, 560. 7 with a power off 555,555 VA

Keywords : Energy Audit, Energy Consumption Intensity, Jember State Polytechnic Health Building