

Energy Audit and Energy Saving Oppurtunity Analysis at Coffee Process Building of PTPN XII Renteng Garden, Afdeling Rayap Jember

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ABSTRACT

Effectiveness and energy efficiency is an important thing in industrial field, both in design and operational so it is necessary to do an energy audit and energy saving opportunities. This study aims to determine the amount of energy consumption and energy saving opportunities. Parameters that will be observed is amount of energy consumption, the intensity of energy consumption (IKE) and energy saving opportunities (PHE). Based on this research, the amount of energy consumption is 4.111,672 kWh/year, the intensity of energy consumption is 1,53/kWh/m²/year and energy savings opportunities is 591,3 kWh/year. The intensity of energy consumption decreases after energy saving to 1,31 kWh/m²/year. The decreases can be done by replacing CFL (Compact Flourescent) lamp with LED (Light Emitting Diode) lamp.

Keywords: *energy audit, IKE and PHE.*