AUDIT AND ENERGY CONSERVATION
IN NAVAL HOSPITAL dr.RAMELAN SURABAYA

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Abstract
Based of Presidential Instruction No.10 of 2005 about energy saving, it needs to be done energy management that especially electrical energy to become more efficient. Energy management is carried out through several phases, the first step does energy audit. Therefore in this research will be done energy audits at commercial buildings especially in dr. Ramelan Naval Hospital Surabaya.

Research of energy audit is done with purpose to know usage of energy in hospital and search saving opportunities. Step that must be done among survey energy, preliminary audit and detailed audit.

From the result of research is showed that the percentage of use of energy in RSAL dr. Ramelan is Electricity 46,7%, Fuel 32,5%, Water 12,95%, LPG 7,8%. On the preliminary audit is obtained average value of Energy Consumption Intensity(IKE) electrical is 9,44 kWh/m\(^2\)/month while on the detailed audit is obtained average value of IKE electrical is 7,93 kWh/m\(^2\)/month, after saving energy average value of IKE electrical decrease become 7,7kWh/m\(^2\)/month. Cost of savings that is obtained with the recommendation to set hours of use lights and Air Conditioning, set amount of using Air Conditioning, and maintenance of Air Conditioning system are Rp 2.925.514,-/month while the cost savings that is obtained with the recommendation to replace the type of Air Conditioning and lighting are Rp 6.199.217,-/month and cost of investment that
incurred is Rp 157,114,600 with long time to return investment of 25.3 month.

*Keyword: Energy Audits, Energy Conservation, IKE*