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Reduction in Energy Consumption – A Case Study

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Abstract: Energy is very important in the entire process of evolution, growth and survival of the world. Energy demand is an increasing pressure for any government. For a developing country like India, the energy criterion decides the growth of the country. Being the fifth largest power generator and the fourth largest power consumer in the world, energy demand and scarcity rules the country. Energy demand in our country is increasing exponentially. Energy conservation can be the best solution for the raising energy demand. Energy conservation is reducing the energy consumption by using less of an energy service. One of the important ways of to improve the energy conservation is energy audit. Energy conservation without compromising the usage is a great task. The paper focuses on the importance of energy conservation by considering the loads of a class room of an educational institution and considering the energy consumed by the present loads and recommending energy efficient appliances and an efficient yet simple sensor based design to reduce the energy consumption and comparing the results.