"STUDY OF ENERGY CONSERVATION OF AIT CAMPUS BY ENERGY AUDIT AND IMPLEMENTATION OF RETROFITS"

APPROVED BY KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

PROJECT REPORT

In partial fulfillment of the requirements for the Award of the degree of

BACHELOR OF ENGINEERING
In
ELECTRICAL & ELECTRONICS ENGINEERING

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ABSTRACT

Energy audit is a systematic study or survey to identify how energy is being used in a building or plant, and identifies energy savings opportunities. Using proper audit methods and equipment, an energy audit provides the energy manager with essential information on how much, where and how energy is used within an organization (factory or building).

An Energy audit is a study of plant or a facility to determine how and where the energy is used and to identify methods for energy savings. There is now a universal recognition of the fact that new technologies and much greater use of some that already exist provide the most hopeful prospects for the future. The opportunities lie in the use of existing renewable energy technologies, greater efforts at energy efficiency and the dissemination of these technologies and options.

The primary objective of energy audit is to determine ways to reduce energy consumption per unit of product or to lower operating costs.

The energy audit of AIT academic area was carried out by the students of the Department of ELECTRICAL AND ELECTRONICS ENGINEERING as a part of the course work for the project. This report is just one step, a mere mile marker towards our destination of achieving energy efficiency and we would like to emphasize that an energy audit is a continuous process. We have compiled a list of possible actions to conserve and efficiently utilize our scarce resources and identified their savings potential. The next step would be to prioritize their implementation. We look forward with optimism that the institute authorities, staff and students shall ensure the maximum execution of the recommendation and the success of this work.