



ఆంధ్ర ప్రదేశ్ సదరన్ పవర్ డిస్ట్రిబ్యూషన్ కంపెనీ లిమిటెడ్.
SOUTHERN POWER DISTRIBUTION COMPANY OF A.P.LIMITED

From

03-01-2023

The Assistant Engineer

Operation D-II Section

APSPDCL

Dharmavaram-II

Energy Audit of K.H.Govt.Degree College , Dharmavaram

2022-23

Introduction

The purpose of an energy audit is to quantify electrical energy consumption and recommended where savings are possible. A 'walkthrough audit' or 'site survey' involves looking at every piece of light and equipment that consumes energy and recording power ratings and estimating operating hours. Obvious energy wastes and inefficiencies are identified as items requiring maintenance or replacement. An action plan for energy management strategy can be formulated as a result of the audit. The audit includes an assessment of all proposed energy consuming equipment which enables the preparation of an energy budget. An energy audit of K.H.Government Degree College , Dharmavaram campus was conducted with these objectives to develop an energy management plan for the college.

Aim :

Conducting Energy audit and suggesting energy conservation measures in
K.H.Govt.Degree College , Dharmavaram Sri Satya Sai District

Objectives :

- To assess the current pattern of electrical energy consumption in the college campus
- To know the ways of energy loss
- Suggesting and implementing energy saving program

Methodology:

The energy audit was conducted through a walk through survey of the campus of KH Government Degree College Dharmavaram Sri Sathya Sai District,. College areas are allotted two groups of two members each.

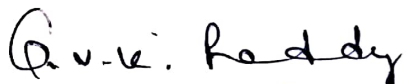
Site Survey :

Our officials visited 27 rooms including Principals chamber , office Room , Staff Room , Library , Computer Lab , Gymnasium and class rooms to estimate the number of lamps the types of lamps i.e incandescent or fluorescent, CFL and LED and the lamps power rating i.e a number of Watts and hours of daily use. The same procedure is repeated for equipment, instruments and other electrical installations. Energy meter readings of the college but taken by a batch of members.

Conclusion and Recommendations

Energy audit was conducted in the campus of K.H Government Degree College Dharmavaram Sri Sathya Sai District during the period from 01-01-2023 to 02-01-2023 for a period of 2 days. In the energy audit conducted at Government Degree College Dharmavaram Sri Sathya Sai District following conclusions were arrived.

- Outdoor energy consumption can be significantly reduced by using solar lights in all such areas
- Necessary steps must be taken to install solar power unit in the campus


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