

ENERGY AUDIT

STUDY PERIOD (THREE YEARS) 2019-20; 2020-21 & 2021-22

Sustainability study
AUDIT REPORT

Studied for
Cotton University

Panbazar, Guwahati – 781001, Assam, India

Studied in the capacity of
An accredited & Certified Green Building Professional



Studied by

Greenenvia
Solutions

Valid till **September 2023**

Disclaimer

The Audit Team has prepared this report for the **Cotton University** located at Panbazar, Guwahati – 781001, Assam, India based on input data submitted by the University and analysed by the team to the best of their abilities.

The details have been consolidated and thoroughly studied as per the various guidelines for Green Buildings available in National and International Standards; the report has been generated based on a comparative analysis of the existing facilities and the prerequisites formulated by various standards. The inputs derived are a result of the inspection and research. These will further enhance and develop a Healthy and Sustainable Institution.

These can be implemented phase-wise or as a whole depending on the decision taken by the Hon'ble Management and University. The warranty or undertaking, expressed or implied is made and no responsibility is accepted by Audit Team in this report or for any direct or consequential loss arising from any use of the information, statements, or forecasts in the report.

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Greenvio Solutions

Developing Healthy and Sustainable Environments

We are an Environmental and Architectural Design Consultancy firm

Sustainable Academe is our department for conducting Audits

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Introduction

About Cotton University

Cotton University aspires towards a holistic education to develop foundational, employable and entrepreneurial skill among its students while contributing knowledge via cutting-edge research and by upholding the highest standards of ethics and accountability in a bid to provide transformative opportunities. We envision ourselves as a world-class university backed by excellence in teaching, research, and interdisciplinary education, production of new knowledge, leadership and outreach.

Total University Area & Building Spread Area

The **total site area is 25.5 acres** and the **total Built-up area of the University is 4,99,851 sq. ft.** for a **total of approximate 4,800 – 5,200 footfalls.**

Energy Audit

The following analysis is combined for the entire premise taking into consideration the duration before the pandemic to understand the consumption pattern on a regular day.

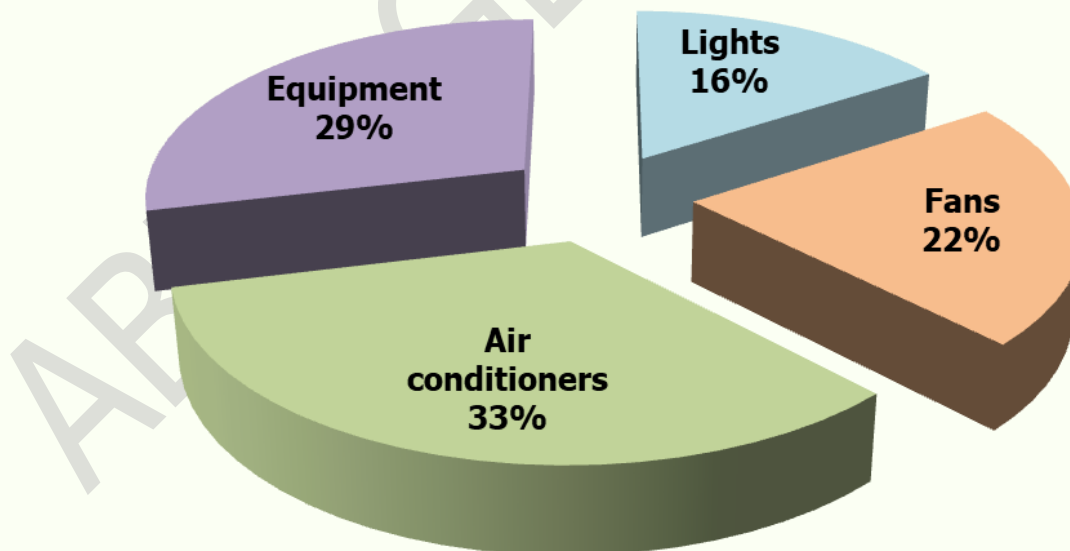


Figure 1: Summary of the calculated electrical consumption as per inventory

The above graph shows that air conditioners consumes 33% followed by equipment at 29% the fans at 22% and the lights consume 16% of the total calculated electrical energy.

