

Energy Policy (Usage Certificate)

As per the Indian Green Building Standards

Prepared by

External Expert: Ar. Nahida Abdulla

(ASSOCHAM GEM Certified Professional – Registration no. 22/718)

Greenvio Solutions

An environmental and architectural design consultancy (Socio-environment responsibility)

Motto: Developing Healthy and Sustainable Environments

greenviosolutions@gmail.com

Website: <https://thegreenviosolutions.co.in/>



Proposed for the prestigious

A. J. Institute of Engineering & Technology

NH-66, Kottara Chowki, Mangaluru-575006

Date of preparation of policy: 22 May 2024

Policy no: GV/ PL/ 05-24/ ZZG-1

Energy Policy

DISCLAIMER – This policy has been prepared by team 'Greenvio Solutions' based on audit. The inferences are used as a base in formulating the policy. The implementation is dependent on Institutional capabilities. Thus, presented plan of action is a feasible document to be practiced by the stakeholders.

Policy statement

The said policy is applicable for the **academic year 2022-2023 and 2023-2024**. The study emphasizes on the existing consumption patterns, strategies adopted, and inferences that can improve power and utilization pattern.

Policy usage (Energy loads)

- The calculated electrical load (power consumption) of the premises is *9,54,176 kWh*
- The conventional ceiling fans attributing the Cooling loads due to inefficient appliances contribute *76,535 kWh to the existing loads of 77,776 kWh; Efforts to replace the conventional fans with energy efficient appliances to make the premises a 100% energy efficient appliance premises will be explored*
- The conventional lights (Non-LED) contribute *44,240 kWh to the existing loads out of the total load (1,43,723 kWh); Efforts to replace the conventional lights with energy efficient appliances to make the premises a 100% energy efficient appliance premises will be explored*
- Avoid the air conditioning (Cooling) loads *and use of natural ventilation instead of artificial cooling; furthermore explore options to reduce existing air conditioning loads amounting 1,73,802 kWh*
- The other loads that do not contribute negative kWh include LED lights and equipment

Policy objectives

- Facilities intervention to *reduce electrical load through alternate sources* of energy
- Additional measures towards *stakeholder sensitization* programs

Policy implementation

- *Display board for technical knowledge of the renewable systems adopted*
- *Documentation of the facilities* with inputs on switchboards/ main boards/ switches etc

Policy history

The AICTE Environment Policy 2020 was referred to draft this policy.