

Energy Policy (Usage Certificate)

As per the Indian Green Building Standards

Prepared by

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Greenvio Solutions

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

Motto: Developing Healthy and Sustainable Environments

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Proposed for the prestigious

Haldia Government College

Debhog, Haldia, Purba Medinipur,

West Bengal 721657, India

Date of preparation of policy: Wednesday, 16 August 2023

Policy no: GV/ PL/ 08-23/ M-1

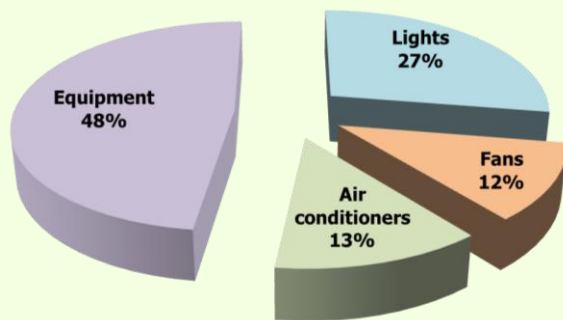
Energy Policy

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 2021-2022**. 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 **1,53,160 kWh** (electrical study)

The adjacent graph shows **equipment consume 48%** while the **lights consume 27%** whereas the **air conditioners consume 13%** and the **fans consume 12%** of total calculated electrical energy.

Figure 1: Summary of the calculated electrical consumption

Policy objectives

- Regularize the energy usage as a consistent activity.
- Explore the opportunity for hybrid mode of alternate sources of energy.
- Understand module to switch to carbon-free campus through transit modes.

Policy implementation

- Increase **stakeholder sensitization** about importance of energy conservation.
- **Reduce the air conditioning loads** which stands at **19,638 kWh** after due discussions with external experts.
- **The entire premises uses LED in the indoor and outdoor areas, this practice to be continued.**
- **Reduce the conventional ceiling fans consumption** which stands today at **15,224 kWh among the 17,778 kWh consumed by fans** and replace same with energy efficient appliances.

Policy history

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

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Environment Policy

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Policy statement

The said policy is applicable for the **academic year 2021-2022**. The study helps to denote positive and negative aspects of the site context w.r.t. ecological parameters.

Policy usage (Green cover)



Figure 1: Mapping the Green cover in premises

- The College has a team of horticulturist and gardeners that **maintain 50% greenery and landscape** of the campus.
- Saplings are protected by the use of organic pesticides and in-house prepared compost.
- **Over 540 types** of trees, shrubs, herbs etc. have been planted in and around campus.
- Well planned spaces with an exceptional biodiversity connect is observed on the site.

Policy objectives

- Regularize site context study as a consistent activity.
- Improve the green cover on horizontal and vertical front of site.
- Explore opportunity for carbon sequestration study of environment.
- Understand the scope for smart and responsible environmental systems.

Policy implementation

- Increase **stakeholder sensitization** about scientific specifications of plantations.
- **Increase the green cover along courtyards and duct areas through vertical plantations** after discussion with external experts **to increase the green cover by 20-25%**
- **Fire & Life safety practices** enhanced with cooperation of stakeholders and local government.
- **Improve the facilities** to develop the site **as a 100% universally accessible premises (Digitally and physically)**

Policy history

The Indian and International Green Building Standards were referred to draft this policy.

Green Building Management Policy

As per the Indian Green Building Standards

Prepared by

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Green Building Management Policy

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The said policy is applicable for the **academic year 2021-2022**.

- ➔ *Take certain provisions for **Green Building parameters** to be implemented in a cost-effective manner through consultancy with Greenvio Solutions.*
- ➔ ***Social practices through green management** - Continue the number of practical and virtual activities under social welfare and community development initiatives for the students and staff.*
- ➔ ***Water Management** - The water conservation measures shall be extended to rain sensitization and outreach programs etc.*
- ➔ ***Waste Management** - Precautions shall be taken towards waste segregation at source; in addition to organic, biomedical, paper waste management.*
- ➔ *Join hands with local municipal corporations on local, regional, national and international level to develop substantial programmes for **community development**.*
- ➔ *Increase the **environmental interventions** in the educational programmes and document the same through multiple platforms*
- ➔ *Educate the students to undertaken initiatives for the **socio-environmental welfare** for nearby localities and adopted areas.*