

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

Aurora Educational Society's

Aurora's PG College (MBA)

H.No 6-3-542, 6-3-542/b, Panjagutta, Hyderabad – 500082, Telangana

Date of preparation of policy: 24 November 2023

Policy no: GV/ PL/ 11-23/ ZE-1

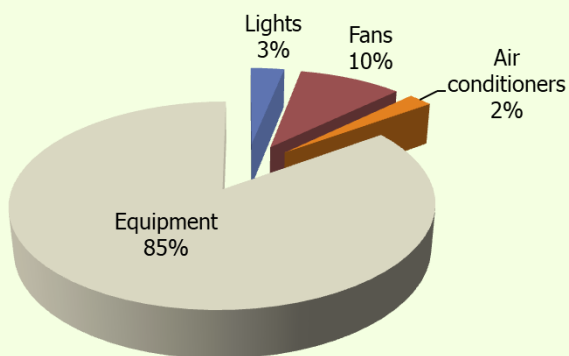
Energy Policy

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 and 2022-2023**. 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 **2,18,832 kWh** (electrical study)

The adjacent graph shows **equipment consume 85%** while the **fans consume 10%** whereas the **lights consume 3%** and **air conditioners consume 2%** 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/ renewable 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.
- **The usage of renewable energy sources to utilize maximum energy as possible.**
- **The lights used are 100% energy efficient and this practice shall be continued.**
- **Reduce the air conditioning loads consumption** which stand at **4,938 kWh**, further devise sources to utilize natural ventilation for comfort purposes.
- **Reduce the conventional fans consumption** which stand at **21,104 kWh consumed by fans** further replace the same with energy efficient appliances to make the premises a 100% energy efficient appliance premises.

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 and 2022-2023**. The study helps to denote positive and negative aspects of the site context w.r.t. ecological parameters.

Policy motive (Green cover)

- The site shall **increase the amount of green cover in the form of green roof, green wall and vertical gardening as and when possible.**
- Detailed documentation shall be undertaken for the ecological extent (plantations) and **appropriate QR coding etc. as a student activity for sensitization purposes.**
- The **use of organic and chemical free compost to protect plantations planned accordingly.**

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

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Green Building Management Policy

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The said policy is applicable for the **academic year 2021-2022 and 2022-2023.**

- 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, increase green cover in and around the campus.
- **Water Management** - The water conservation measures of ground water recharging 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, paper, e-waste and plastic waste management to stakeholders through sensitization programs and capacity building sessions.
- 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 on a consistent basis.
- Educate the students to undertaken initiatives for the **socio-environmental welfare** for nearby localities and adopted areas.