



NAGPUR INSTITUTE OF TECHNOLOGY

(Affiliated to RTM Nagpur University & Approved by AICTE New Delhi)

CAMPUS: 13/2, Mahurzari, Near Fetri, Katol Road, Nagpur-441501, India

Email Id : registrar@nit.edu.in Web : www.nit.edu.in Contact No. 09764974144

RTMNU College Code: 315

DTE Code: 4144

AICTE ID : 1-4830701

Energy Policy

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



Proposed for the prestigious

Nagpur Institute of Technology

Survey no.13/2, Katol Road,
Near Fetri, Mahurzari, Nagpur,
Maharashtra-441501, India

Date of preparation of policy: 08 April 2024

Policy no: GV/ PL/ 04-24/ ZZ-1

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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 *1,97,920 kWh*
- The conventional ceiling fans attributing the Cooling loads due to inefficient appliances contribute *46,650 kWh to the existing loads out of the total load (50,736 kWh); Efforts to replace the conventional fans 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 46,508 kWh*
- The conventional lighting (Non-LED and CFLs) attributing *56,706 kWh to the existing loads out of the total load (62,216 kWh) efforts to replace the conventional lighting with energy efficient appliances to make the premises a 100% energy efficient appliance premises will be explored*
- The other loads that do not contribute negative kWh include LED light and equipment

Policy objectives

- Facilities intervention to reduce electrical load through alternate sources of energy
- Additional measures towards fire and life safety of the stakeholders and building services

Policy implementation

- Display information for awareness and vigilance
- Facilities intervention to reduce electrical load
- Display information about the technical facilities
- Fire and life safety, laboratory-earth pit and DG area safety measures

Policy history

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



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Energy Saving Policy

Introduction:

The relationship between sustainability and energy security is undeniable. Environmental stewardship and energy conservation practices are crucial for achieving Sustainable Development Goals. Given the escalating energy consumption, the Energy Policy of Nagpur Institute of Technology holds significant relevance. It serves a platform for raising awareness about renewable energy resources and advancing global sustainability.

Objectives recognizing the urgent need to address climate change and the adverse effects of fossil fuel usage on the environment, the energy policy emphasizes the importance of Conservation and efficient energy utilization. Through the adoption of alternative energy Sources and energy-saving measures, the institute aims to mitigate global warming and reduce carbon footprints. Additionally, by cutting down on energy expenses, the policy benefits administrators and contributes to the long-term sustainability of the organization. With a focus on collective responsibility, the policy engages all members of the institution at every level in promoting energy conservation.

Objectives:

- **Raise Awareness:** Promote understanding among faculty, staff, and students about the importance of energy conservation and the utilization of renewable energy sources.
- **Reduce Environmental Impact:** Minimize the institution's carbon footprint and mitigate the adverse effects of energy consumption on the environment.
- **Enhance Efficiency:** Optimize energy usage through the implementation of energy-saving practices and technologies to improve operational efficiency.
- **Cost Reduction:** Decrease energy expenditures by adopting alternative energy sources and implementing measures to conserve energy, thereby reducing financial burdens on the institution.
- **Foster Responsibility:** Engage all members of the institution in promoting energy Conservation efforts and encourage a culture of sustainability at all levels.

Dr. A. Y. Deshmukh
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