

COLLEGE OF ENGINEERING ROORKEE

Policy for Environment and Energy Usage



COLLEGE OF ENGINEERING ROORKEE, ROORKEE
7th Km. Roorkee-Haridwar Road, Vardhmanpuram, Roorkee-247667
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1. Introduction

We staunchly endorse the policy of environment conservation and stand deeply rooted in our commitment to set new standards of environmental preservation. We possess a deep and instilled allegiance to the conservation of energy resources. The College campus stays committed to the maintenance of the ecological balance in the region of haridwar roorkee. In order to achieve this, we persevere for the maximizing the utilization of clean energy. The college shall steer for the regulation, involvement and inculcation of a policy of sustenance of environment and stem the usage of artificial energy resources. We are endorsing and enforcing measures to make the University a zero carbon campus.

In order to create a more holistically sustainable campus, it is imperative that the College adopt a policy for existing as well as new building spaces that is consistent with its other sustainability commitments and initiatives.

The implementation of these standards should maintain or increase the quality of life for those who utilize, occupy, and/or maintain the college campus.

2. Standards

2.1 Energy Use

- Passive solar potential must be evaluated when determining the design and orientation of a new building space.
- All heating (water heating in hostels) systems installed in all residential space must be powered by carbon-neutral fuels.
- All electricity use within a new building space should maximize the use of renewable energy.
- Energy Auditing is necessary for all the buildings in college campus.
- Real-time energy use monitoring systems must be present for all building space in the campus.
- LEDs should be used in whole campus.



2.2 Discarded Resource Recovery and Management

- Whole campus spaces must incorporate a design that encourages zero-waste practices.
- Containers for recycling and reuse of materials, including organic material (compost), must be incorporated throughout the campus.
- Whole college campus must facilitate the placement of easily accessible, clear, and consistent signage for all locations with discarded resource Containers.
- All building spaces (excluding renovations) must include infrastructure to enable easy handling and removal of discarded resources to appropriate processing locations. Renovations whenever possible should improve such existing infrastructure such as Restroom facilities within new building spaces must incorporate human manure recycling systems such as composting toilets whenever possible.
- There should be an organic waste to energy conversion facility in college campus.

2.3 Water Use

- All campus spaces must incorporate design for grey water and non-toxic rainwater collection systems whenever possible.
- Water meters must be installed for all new building spaces to monitor water use.

2.4 Building Materials (for new buildings/ renovation work)

- Recycled, reused, and locally sourced/manufactured (within a 500 mile radius) materials, as well as certified rapidly renewable, sustainably-harvested, non-toxic, and low-emission building materials must be considered before the purchase and use of any new materials in the construction of a new building space.
- Life Cycle Assessments (LCAs) and/or documentation of sources and environmental and social impacts of building materials used in the construction of a new building space must be provided whenever possible.
- The use of high-embodied energy materials throughout the construction of a new building space must be avoided whenever possible.



2.5 Contaminated water

- College of Engineering Roorkee shall not sell or distribute containerized water on college property or at college events. At events where the college serves other beverages (soda, juice, coffee, etc.) it will provide equal opportunities for people to drink tap water.
- The College may act contrary to this policy in the case of a tap water quality or water access emergency, as declared by the Director of Public Safety, or in the case of a pandemic.

2.6 Emissions

- All the vehicles of college staff/ faculty members should be getting the emission certification before entering the vehicle in college campus.
- College vehicles should also get the emission certification.

