



POLICY FOR ENERGY EFFICIENCY FOR RENOVATION, CONSTRUCTION AND MAINTENANCE

The Energy Efficiency Policy of Amity University Rajasthan is drawn for the management and conservation of energy for its existing infrastructure and for any new built form. This policy outlines the practices which have been implemented and also plans to be implemented in the future as the University's infrastructure and community grow larger. The Policy will act as a guideline and a standard operating procedure to ensure energy conservation is accomplished by developing a progressive and proactive approach to sustainable energy consumption, cost effective and responsible consumption on the campus of the University. This policy will be reviewed periodically as the demand of energy grows with the growth of the University. This policy will be applicable to all the staff, students, faculty and visitors to all the University campus.

Introduction

Amity University campus is a LEED Gold certified. The campus is a green oasis in the hot and dry region of Rajasthan. This main energy consumption includes petrol and diesel consumption by the electric generators and vehicles apart from the consumption of electricity for day-to-day functioning of the campus facilities. The bulk of the energy consumption comes from illumination and Air-conditioning. Energy consumption in academic Blocks, libraries, classrooms, faculty cabins, students and faculty residences are considerably low as care is taken at the initial stages of construction to make use of natural air ventilation systems in the buildings with energy conservation in mind.

Scope of the Policy

The policies and initiatives for the conservation of energy, environment and green campus activities will develop a positive attitude towards nature and will create challenge for protecting our resources amongst the prospective teachers. Being the future nation builders of the society, the student teachers are expected to disseminate the same to the young generations of the schools through various activities.

Objectives of the Policy

- To make student teachers understand the importance of environment and its problem areas.
- All new construction will comply and strive for LEED Gold rating.
- Renovation and retrofitting will be done using sustainable practices and materials.
- To educate student teachers to create awareness amongst public.
- To protect and conserve ecological systems and resources within and outside the campus.
- To work with the local community to enhance the environment protection practices and energy conservation strategies among the rural community.





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The University set for itself certain goals given below for the effective conservation of energy on its campus:

- Construct University buildings using passive architectural design, in a way to utilize natural air-cooling system and maximize natural lighting for indoor spaces.
- Conduct periodical awareness programs among the University Community on Energy Conservation.
- Replace non-renewable energy as much as possible with renewable energy sources.
- Conduct regular energy audit.
- Use more efficient electrical appliances for new installations for lower energy consumption.
- Compliance with 2017 ECBC (Energy Conservation Building Code) to ensure installation of renewable energy systems and that a proportion of total electricity demand is met through renewable energy systems.

Strategies and Implementation

Based on the goals set by the University for effective conservation of energy on campus, the following strategies have been adopted by the University:

- **Passive Architectural Design of the Buildings:**
In all its new building constructions, the University is to make sure that, right from the architectural design, buildings are making use of the natural air-cooling system in every possible way to allow free flow of cool air which percolates throughout the corridors and the rooms.
- **Roof Top Solar Panels:**
The University has Rooftop Solar Panels installed on its buildings. Accordingly, the University has installed grid-connected solar farm on its campus apart from the photovoltaic system on rooftop spaces to reduce the energy cost incurred by the University.
- **Thermostat Set Point:**
The University practices a set point of 23 degrees for its central air conditioning unit. For those who use Air Conditioning system are advised to always maintain a set point of 24 degree Celsius.
- **LED Lights:**
The University will make every effort in using only LED lighting system for its facilities on campus. The existing lighting systems are to be replaced by LED lightings in a phased manner.
- **Energy Audit:**
The University will conduct energy audit every year to ensure that the energy consumption in the University remains as per the expected set level and that no energy is wasted unnecessarily. The areas of energy conservation and saving are to identified through the process of audit by following the recommendations.
- **Maintenance of Equipment:**
The Administrative Officers of each of the campus will be responsible for timely maintenance services of electrical equipment installed in





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the University, with an objective of keeping their efficiency at maximum level.

Conservation Behaviour

The University will encourage the stakeholders in developing an energy conservation behaviour by organizing workshops, seminars, talks, competitions and awareness events on the effects of climate change, depletion of fossil fuels, and on the importance of having consciousness in energy conservation etc. at regular intervals. For achieving this purpose, each department will be responsible for organizing such events and the Heads of Department will spearhead such activities.

Expected Outcomes

By following the University's Energy Conservation Policy, the following outcomes are expected:

- The cost of energy consumed by the University will be reduced and maintained at a certain affordable level.
- It will reduce the greenhouse gas contribution of the University.
- It will extend the life of electrical equipment at the University.
- It will create a better and healthier environment for the University community to live in.
- Lastly, it will help in moulding the behaviour of the students towards environmental consciousness while making them aware of the importance of energy conservation.

Policy Enforcement

The University's Energy Efficiency Policy will be enforced by the Administrative Officer of the Campus in collaboration with the Directors of various department of the University.

