

ENERGY CONSERVATION POLICY

MUSLIM COLLEGE OF EDUCATION



Principal
Muslim College of Education
Thiruvithancode



MUSLIM COLLEGE OF EDUCATION

No. 1 New Street, Thiruvithamcode, Kanyakumari District, Tamil Nadu, India – 629174
Affiliated to Tamil Nadu Teachers Education University– Chennai CC:10915,10936
Recognised by SRC (NCTE) New Delhi
web: www.muslimcollegeofeducation.in | email id : muslimcollegeofeducation@gmail.com

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F. No. SRC/NCTE/APSO 8071/B.Ed./TN/2014-15/ 62329

F. No. SRC/NCTE / APSO9493/M.Ed/TN/2015/65325

F. No. SRC/NCTE/SRCAPP14511/ B.A.B. Ed, B.ScB.Ed/TN/2017-2018/91300

Energy Conservation

The Muslim College of Education's energy policy effectively monitors, controls, and preserves the campus's energy needs in response to the growing demands of the institution. The institute has the responsibility to educate both the staff and teacher-trainees about energy-conservation practices. To achieve an 80% reduction in energy usage, traditional fluorescent tube lights have been gradually replaced with light-emitting diode bulbs (LED) and Halogen incandescent bulbs. The lights and appliances, such as computers, monitors, and photocopy devices, were consistently powered off or put into sleep mode to save energy usage by 40% while not in use. The replacement of devices with low power consumption and high efficiency was executed. Energy Star certified air conditioners and refrigerators are installed to preserve electricity. The augmentation of vegetation on the site facilitated a decrease in the utilization of electricity.

Alternative Energy Source

The Alternative Energy Sources of Muslim College of Education are designed for the effective deployment and efficient exploitation of renewable energy sources in such a methodical way as to minimize their environmental impact. An alternative energy source provides the community of teacher-trainees with the chance to participate in activities for environmental protection. To reduce the use of electricity, solar photovoltaic panels are installed as an alternative source of energy. The solar water heater is used in the college hostel. Progressively, solar street lamps are being installed instead of LEDs. Biogas produced from the plant installed is used for cooking purposes in the hostel as alternative energy instead of LPG

Sensors are employed to automatically conserve energy in above-water tanks, with the aid of water level control sensors. Electrically driven water pumps are utilized across the campus to elevate groundwater to above tanks. An automatic water level controller




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is used for overhead tanks to regulate the operation of the pump motor based on the predetermined minimum and maximum water levels. The device is installed in a room equipped with energy conservation sensors. It fulfils its function by activating the lights and fans in the room automatically upon detecting someone's presence, and deactivating them automatically when someone exits.

Green Audit

Green auditing is the methodical process of identifying, measuring, documenting, presenting, and analysing the several components of an organization's environmental variety. The objective of green auditing is to scrutinize environmental conduct both within and beyond the scope of the subject area that could intentionally impact the environment. The college conducts periodic external audits through recognized renewable energy organizations.




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INSTITUTION ENERGY POLICY DOCUMENT



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POLICY DOCUMENT REGARDING ALTERNATIVE ENERGY SOURCES AND ENERGY CONSERVATION

In order to optimize the use of renewable energy sources, the college developed and executed a policy on alternative energy sources. The utilization of alternative energy allows stakeholders to actively participate in and contribute to environmental conservation. This also enables the utilization of these energy resources for various purposes within the campus.

Objectives

- To enhance the abundance of greenery
- Reduce carbon dioxide emissions
- Reduce the utilization of non-renewable energy sources
- Minimize the level of atmospheric contamination
- Access to a clean and hygienic environment policies

1. The faculty members and teacher-trainees are informed about the policies and procedures of energy conservation.



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2. Strict adherence to turning off lighting and appliances in rooms that are not being used is practiced.
3. Generating awareness among teacher-trainees about pollution, its dangers, the consequences of depleting natural resources, and the importance of conserving energy.
4. Conventional fluorescent tube lights in the college were replaced progressively by LED lamps to save 80% of the energy consumption.
5. The college has erected a portable biogas plant within the campus to effectively manage solid waste and convert it into a valuable energy resource. The food waste generated by the canteen and hostels on the college campus is gathered in a designated area and used to generate biogas in the installed facility.
6. Converting the existing LED street lights into solar operated street lights.
7. Carrying out an external audit through the authorized renewable energy bodies.




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Features:


The college has consistently taken measures to conserve energy.

The college has implemented a portable biogas plant on its premises. The food waste generated by the dormitory on the college campus is gathered in a designated area and used to generate biogas in the installed facility. The biogas produced is utilized for cooking purposes at the hostel.

The college gradually replaced conventional fluorescent tube lights with LED lamps in order to reduce energy usage by 80%. Electrical equipment was substituted with energy-efficient and highly efficient gadgets. Opting for natural ventilation is preferable to using an air conditioning system. Energy Star certified products, such as air conditioners, freezers, and ceiling fans, are placed across the campus.

The proportion of female teacher-trainees in our college exceeds that of male teacher-trainees. The college prioritizes the well-being, sanitation, and hygiene of all teacher-trainees involved. A Sanitary Napkin Vending and Disposal Machine has been installed in the ladies' washroom as part of this initiative.




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Maintenance Procedure

Regular monitoring of the aforementioned energy conservation systems is conducted, and any emergent concerns are promptly remedied. A meticulous log is kept to document both resolved and unsolved matters.




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REPLACEENT OF NORMAL BULB TO LED BULBS



LED BULBS




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LED BULBS




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BIO GAS PLANT



FOOD WASTAGE




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