



GOVERNMENT OF WEST BENGAL
OFFICE OF THE PRINCIPAL
Maulana Azad College



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POLICY DOCUMENT ON ENERGY MANAGEMENT



1. Introduction

Maulana Azad College is committed to sustainable energy use and integrating renewable energy sources. This policy outlines our approach to energy management, focusing on energy efficiency, conservation, and adopting renewable energy technologies to minimize our environmental impact.

The college has designed its energy management policy based on the Guidelines laid by WBREDA (link: <https://www.wbreda.org/renewable-energy-policy-of-west-bengal/>). All the installations and maintenance of Electrical tools and equipment are executed by the Electrical wing of PWD, Government of West Bengal following their mentioned guidelines (link: <https://wbpwd.gov.in/home/schedule>).

2. Aim

The College aims for a Five-star rating of the College building by the Bureau of Energy Efficiency, Government of India, Ministry of Power. The college also commits to balance its carbon emissions to meet the Net-Zero target within 2046.

3. Objectives

- To reduce energy consumption through efficient practices and technologies.
- To increase the use of renewable energy sources on campus.
- To promote awareness, education, and outreach programs on sustainable energy use.
- To comply with national and state energy regulations and guidelines.

4. Energy Efficiency

- **Lighting:** Install energy-efficient LED lighting across the campus and utilize natural lighting where possible. Implement motion sensors and automated lighting controls to reduce unnecessary energy use.
- **HVAC Systems:** Upgrade heating, ventilation, and air conditioning (HVAC) systems to high-efficiency models. Reassessments of all HVACs which are being used for over 10 years. Elimination of all window ACs (if any) phase by phase. Regularly maintain and optimize these systems for peak performance.
- **Appliances and Equipment:** Purchase and installation of energy-efficient appliances and equipment (refrigerators, coolers, water purifiers, BLDC fans, sensor and/or timer-based devices) certified by Energy Star or equivalent standards by Bureau Of Energy Efficiency, Government of India (link: <https://beeindia.gov.in/en>). Promote the use of energy-saving settings on all electronic devices.

5. Renewable Energy Integration

- **Solar Energy:** Install solar panels on rooftops and other suitable locations to generate a significant portion of the campus's energy needs. Explore the feasibility of solar water heating systems.


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- **Other Renewables:** Investigate the use of other renewable energy sources such as wind, geothermal and biomass.



6. Energy Conservation

- **Awareness Programs:** Conduct regular workshops, seminars, and campaigns to educate students, faculty, and staff about the importance of energy conservation and how they can contribute.
- **Behavioural Changes:** Encourage simple energy-saving behaviours such as turning off lights and equipment when not in use and minimizing the use of personal electric heaters and coolers.
- **Water conservation:** Encourage water conservation through efficient fixtures, rainwater harvesting and reusing, and awareness campaigns on this.
- **Energy Audits:** Perform regular energy audits to identify areas of high energy consumption and potential savings. Implement recommendations from these audits promptly.

7. Monitoring and Reporting

- **Annual Reporting:** Prepare and publish an annual energy report detailing consumption, savings, and progress towards renewable energy goals. Share this report with the college community and stakeholders.
- **Continuous Improvement:** Regularly review and update the energy management policy based on performance data, technological advancements, and regulatory changes.

8. Roles and Responsibilities

- **Energy Management Committee:** Oversee the implementation of this policy, conduct energy audits, and monitor energy usage. Propose and manage energy efficiency and renewable energy projects.
- **Facilities Management:** Ensure the efficient operation and maintenance of all energy-related infrastructure. Implement energy-saving measures and renewable energy installations.
- **Faculty and Staff:** Incorporate energy conservation practices into daily activities and support institutional energy initiatives.
- **Students:** Participate in energy conservation programs and adopt sustainable energy practices.
- **College Administration:** Supervision of all these measures taken for the cause.

9. Compliance

- **Regulatory Adherence:** Ensure compliance with all national and state energy regulations and guidelines.
- **Sustainability Standards:** Strive to meet or exceed recognized sustainability standards and certifications.

10. Inference

Maulana Azad College is dedicated to managing energy resources sustainably and responsibly. By implementing this Energy Management Policy, we aim to reduce our carbon footprint, promote renewable energy use, and foster a culture of energy conservation within our community.

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