



PARMITA EDUCATION SOCIETY

MODERN COLLEGE

OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

Reg. No. F-11895/"A'bad" (Affiliated to Dr. B.A.M.U. University, Aurangabad.)

Policy Report : Alternate Energy Sources and Energy Conservation Measures


Introduction : This policy report outlines the college's commitment to enhancing energy efficiency and sustainability through the implementation of LED lighting across the campus. By transitioning to LED lights, the college aims to significantly reduce its carbon footprint, decrease energy consumption, and foster a greener and more environmentally friendly campus. The goals are to minimize energy waste, lower electricity costs, and contribute to the overall sustainability initiatives of the institution.

Aims:

1. **Energy Efficiency:** Enhance the college's energy efficiency by transitioning to LED lighting.
2. **Cost Savings:** Reduce electricity expenses through the adoption of energy-efficient LED lights.
3. **Environmental Stewardship:** Lower the college's carbon footprint and contribute to a greener campus by minimizing energy consumption.

Objectives:

1. **Complete LED Installation:** Replace all traditional lighting systems with LED lights across the campus within a set timeline.
2. **Energy Monitoring:** Implement a system to track energy usage and savings resulting from the LED transition.
3. **Sustainability Education:** Raise awareness within the college community about the benefits of LED lighting and promote energy conservation practices.
4. **Ongoing Maintenance:** Ensure the long-term efficiency of LED lighting through regular maintenance and timely replacements.


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5. **Annual Evaluation:** Review and report on the energy savings, cost reductions, and environmental impact achieved through the LED lighting initiative each year.

Implementation Strategies:

Sensor-Based Energy Conservation : This initiative utilizes sensors to automate energy use in rainwater harvesting system implementation

Working method:

Sensor Function: The system uses water level sensors installed inside the rainwater harvesting tanks. These sensors are designed to detect the level of water in the tank continuously.

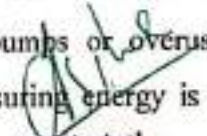
Working : The sensor-based rainwater harvesting system is designed to optimize water collection and management on campus. The system uses water level sensors to monitor the levels in the harvesting tanks. When the water reaches a certain level, the system automatically redirects excess water away from the campus, preventing overflow and ensuring efficient water use.

Optimized Water Management: The system ensures that rainwater is efficiently collected, stored, and used, maximizing the use of natural resources and minimizing waste.

Overflow Prevention: By automatically detecting when the water level reaches its maximum capacity and diverting excess water, the system prevents overflow, protecting campus infrastructure from water damage.

Reduced Pumping Energy:

The automated detection and diversion of excess water eliminate the need for constant manual monitoring, reducing the energy consumption associated with manual pumps or ~~overuse~~ of automated systems. The system only activates pumps when necessary, ensuring energy is used efficiently.


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Use of LED bulbs/ Power efficient equipment:

The college has implemented various initiatives for utilizing alternate sources of energy and energy conservation measures, particularly focusing on the arrangement of lighting. These efforts aim to reduce energy consumption, minimize carbon footprint, and promote sustainability on campus. Here are the key components of the lighting arrangement:

LED Bulbs and Power-Efficient Equipment

Lower Energy Consumption:

LED bulbs use significantly less energy compared to traditional incandescent or fluorescent bulbs. For example, an LED bulb can provide the same amount of light as a 60-watt incandescent bulb while using only about 8-10 watts of power.

Enhanced Energy Efficiency:

Automatic Adjustments: Motion sensors and timers ensure that lights are only on when necessary, reducing energy consumption and minimizing wasted electricity.

Reduced Energy Bills: By operating lights only when needed and adjusting based on occupancy, the system lowers overall electricity usage, leading to significant cost savings on energy bills.

Lower Maintenance Costs: Smart lighting systems often have longer-lasting bulbs and reduced operational wear, leading to fewer replacements and lower maintenance expenses.

Awareness campaigns are held to inform students and staff about energy-saving practices, including turning off lights, fans, and electronic devices when they are not in use.

Inverters and Energy Efficiency Initiatives

Energy Efficiency: The college has adopted the use of inverters to enhance energy efficiency by providing a reliable backup power source during electricity outages, ensuring minimal disruption to academic activities and operations.


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Reduction in Power Consumption: By using inverters, the college can manage power more effectively, especially during peak load periods, reducing overall electricity consumption and lowering utility costs.

Uninterrupted Power Supply: The implementation of inverters ensures a continuous power supply to critical areas like computer labs, libraries, and administrative offices, thereby maintaining the college's productivity and safety.

Environmental Impact: The use of inverters contributes to the college's commitment to reducing its carbon footprint by optimizing energy use and minimizing the reliance on diesel generators, which emit harmful pollutants.

Sustainability Goals: Integrating inverters into the campus infrastructure aligns with the college's broader sustainability goals, promoting a more environmentally conscious and energy-resilient campus.

Cost Savings: Over time, the use of inverters contributes to significant cost savings by reducing the need for expensive fuel-based generators and minimizing energy wastage.

Monitoring and Evaluation :

Regular monitoring of energy usage is carried out to evaluate the success of the implemented strategies.

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Policy Report on Degradable and Biodegradable Waste Management

Introduction : Our college is dedicated to environmentally friendly and resource-efficient sustainable waste management techniques. The organization has put in place a thorough waste management system that separates dry (non-biodegradable) and wet (biodegradable) garbage. By employing state-of-the-art equipment, the college efficiently handles and treats these waste streams, promoting sustainability on campus and in the neighborhood. draft of the previous paragraph, to put it another way

Aims and Objectives:

Ensuring a sustainable and ecologically responsible approach to treating all sorts of trash created within the college is the main goal of the college's waste management policy. This goal demonstrates the college's dedication to lessening its impact on the environment, encouraging resource efficiency, and cultivating a sustainable culture within the campus community.

1. Encourage the Separation of Wet and Dry Waste at the Source:

Objective: Make sure that, at the point of generation, wet (biodegradable) waste and dry (non-biodegradable) waste are effectively separated.

Details: Effective waste management requires proper waste segregation at the source. College increases the efficiency of later waste processing and disposal procedures by early separation of wet and dry trash. These bins are strategically placed in high-traffic areas to encourage proper waste segregation by students, faculty, and staff. The waste is collected on a regular basis and transported to a city vehicle for appropriate disposal. This city vehicle is responsible for ensuring that the waste is directed to the correct facilities, whether for recycling, composting, or landfill. By implementing

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this systematic approach, the institution not only improves waste management efficiency but also actively contributes to environmental sustainability efforts.

Actions: College emphasizes the value of appropriate waste segregation to the community and has clearly marked containers for dry and wet garbage across the campus.

2. Spread Knowledge About Sustainable Waste Management Techniques Among Students

Objective: Increase knowledge and instruct staff, instructors, and students on the value of sustainable waste management.

Details: Constant participation and education are needed to establish a culture of sustainability. accord. by teaching the campus community about appropriate waste segregation and how to make sustainable behavioral adjustments.

Actions: The college carries out awareness campaigns, workshops, and seminars with an emphasis on trash management and environmental sustainability. Furthermore, the campus is equipped with educational signage and rules that serve to promote appropriate waste management practices.

The goal of college's waste management strategy is to develop an environmentally conscious and sustainable campus. By emphasizing segregation and reducing landfill waste, the college shows its dedication to sustainability and environmental responsibility. All of these goals work together to create a campus environment that is greener, cleaner, and more sustainable.

Practices:

Educational Programs: Occasionally, workshops and talks are held to educate staff and students on the importance of recycling, waste segregation, and sustainable waste management practices. These programs aim to foster a sense of environmental responsibility among campus residents.

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Policy Documents to keep College Plastic Free

The College understands how critical it is to combat the threats plastic pollution poses to the environment. In keeping with national initiatives to address this problem, the university is dedicated to putting the "Plastic Ban" policy started by government into practice in order to establish an environmentally friendly and sustainable campus:

Objectives :

- a. to reduce campus's reliance on single-use plastics.
- b. To encourage teaching and understanding of plastic pollution and its effects on the environment.
- c. To promote environmentally friendly substitutes for plastic materials.
- d. To set up appropriate procedures for handling plastic waste.
- e. To encourage staff, instructors, and students to practice environmental stewardship and responsibility.

The activity's procedures: The college is implementing the "Plastic Ban" strategy by implementing a number of measures that will reduce the quantity of plastic used on campus and promote environmental friendliness and sustainability. The policy's main objective is to encourage the use of alternatives such steel trays, glasses, and reusable bottles. Below is a list of the steps that are engaged in the activity:

Introduction and Communication of Policy:

Start by formally announcing to the campus community the "Plastic Ban" policy. Make sure that the goals, advantages, and expectations of the policy are communicated clearly. Make sure educators and students are aware of how crucial it is to use less plastic in order to maintain the sustainability of the environment.

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Determine Other Options:

Determine and present substitutes for single-use plastic products. In this instance, the emphasis is on switching to steel trays and glasses from throwaway plastic ones. Encourage the use of lunchboxes and still (non-plastic) water bottles as well.

Assist with Infrastructure:

Ascertain that the infrastructure required to facilitate the transition is in place. This could entail setting up water stations for replenishing still water bottles, supplying steel trays and glasses in the cafeteria and dining areas, and designating specific areas for the storage of reusable lunch boxes.

Educational Campaigns:

Conduct educational efforts to increase public understanding of the harm that plastic pollution causes to the environment. Distribute information on the advantages of adopting steel substitutes and the drawbacks of single-use plastics using posters, fliers, and online platforms.

Encourage Teachers and Students:

Encourage educators and students to take an active role in the project. Encourage them to pack reusable lunchboxes and still water bottles for themselves. Use motivating techniques like awards or recognition for students or individuals who continuously follow the plastic-free routines.

Collaborate with student organizations:

Collaborate with student organizations, environmental clubs, and sustainability groups to involve students in the development and execution of anti-plastic campaigns. This promotes a sense of ownership and community involvement in sustainability projects.

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Plan Seminars and Workshops:

Organize conferences and workshops on sustainable living, with a focus on the significance of lowering plastic usage. Ask specialists, environmentalists, or special guests to share their perspectives on the problem of plastic pollution and sustainable solutions.

Frequent observation and feedback

Create a system to keep an eye on how the policy is being applied. Evaluate the use of alternatives to plastic on a regular basis, get input from educators and students, and change as necessary. Ongoing observation facilitates the identification of problems and areas in need of development.

Regular policy assessment

- a. Regularly assess the "Plastic Ban" policy's efficacy. Evaluate the degree of engagement from the college community, the environmental impact, and the total reduction in plastic usage. Make improvements to the policy in order to make it more sustainable in the long run.
- b. By taking these actions, the institution may contribute to the greater objective of reducing plastic waste and promoting an eco-friendly campus by establishing a culture of sustainability and environmental consciousness.

Reduction of Single-Use Plastic:

- a. Prohibit using single-use plastic water bottles on university property. Set up refilled water stations to promote the use of reusable bottles.
- b. Prohibit the distribution of straws, cutlery, and stirrers made of plastic inside university premises. Promote the use of biodegradable or reusable alternatives.
- c. Discourage the use of plastic bags and containers and encourage food sellers and retailers on campus to utilize eco-friendly packaging.

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Mindfulness and Education:

- a. To improve students' understanding of plastic waste and its consequences, incorporate environmental education modules into the curriculum.
- b. Over the course of the academic year, organize lectures, workshops, and awareness campaigns to educate college students about the consequences of plastic on the environment.

Promoting the Utilization of Sustainable Substitutions

Forbid the distribution of plastic stirrers, straws, and cutlery on university property. Encourage the adoption of reusable or biodegradable substitutes.

- c. Promote the use of eco-friendly packaging by food vendors and retailers on campus in place of plastic bags and containers.

Education and Mindfulness:

- a. Include environmental education modules in the curriculum to help pupils comprehend plastic waste and its effects.
- b. To inform college students about the effects of plastic on the environment, plan lectures, workshops, and awareness campaigns throughout the academic year.

Encouraging the Use of Sustainable Alternatives

- a. Encourage and support the use of environmentally friendly materials for conferences, events, and marketing products.
- b. Form alliances with vendors and suppliers who place a high value on ecologically friendly and sustainable goods.

Management of Waste:

- a. Establish a thorough waste segregation system on campus, designating bins specifically for plastic garbage.

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b. Work together with nearby recycling centers to make sure that plastic waste is disposed of and recycled properly.

c. Promote the development of student-led programs aimed at reducing plastic waste and

Conclusion:

The College is dedicated to combating plastic pollution by taking the initiative. By putting this policy into practice, we hope to build a sustainable and eco-aware campus community that supports the larger objective of a healthier and cleaner planet.

Evidence of Success :



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 **GPS Map Camera**

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आपला परिसर स्वच्छ
राखा कचरा डस्टबीन
मध्ये टाका

J. S. Le
H.C. Principal
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MCCSIT/Event 2024

Date: 5 July 2024

NOTICE

We would like to notify all of our staff members and students that our college will be implementing a "say no to plastic" policy as part of our green policy drive. Therefore, any employee or student found to be carrying a plastic bag, bottle, or other object on campus will be disciplined in accordance with the code of conduct. This week is the last week to bring plastic inside the college.

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Policy Report on Waste Management Facilities

Introduction

Our college is dedicated to preserving an ecologically conscious and sustainable method of handling all waste kinds produced within the organization. The college's commitment to minimizing its environmental impact and advancing sustainable practices is shown in this paper, which describes college's extensive waste management policies and infrastructure.

Objectives and Goals

The main objective of College's waste management strategy is to provide a sustainable and ecologically conscious method of managing all waste kinds produced on campus. The goals consist of:

1. To lessen the garbage generated on campus's negative environmental effects.
2. To encourage the appropriate disposal and segregation of various waste kinds.
3. To guarantee adherence to regional and federal waste management laws.

To promote sustainable trash management among students and the campus community.

Waste Management Facilities

Management of Solid Waste

Segregation: Waste is separated into non-biodegradable and biodegradable.

Collection: Waste is collected from Labs and classroom using designated bins, which are subsequently deposited into larger bins positioned throughout the campus.. The use of plastic carry bags, cups and laminated paper plates are prohibited on the campus. Students and staff are advised to bring cloth bags. An awareness programmes were organized in the college. The waste is


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collected on a regular basis and transported to a city vehicle for appropriate disposal. This city vehicle is responsible for ensuring that the waste is directed to the correct facilities, whether for recycling, composting, or landfill. By implementing this systematic approach, the institution not only improves waste management efficiency but also actively contributes to environmental sustainability efforts.



Liquid Waste Management: Water is the most essential ingredient for the survival of life, after air. Water is a limited resource that will soon experience shortages if improperly handled. One significant approach to help mitigate these looming shortages is through water conservation. Pupils

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are informed

that protecting water now is the same as protecting their future. consuming tap water and replenishing

Management of E-waste:

Managing e-waste (electronic waste) effectively is crucial for colleges to ensure that hazardous materials are properly handled and valuable resources are recovered. Set up clearly marked and easily accessible e-waste collection in a bins around the college campus, especially in libraries, and computer labs. Develop and implement a campus-wide e-waste management policy that outlines procedures, responsibilities, and goals.



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Procedures for Implementing the College's E-Waste Management Plan

E-Waste Evaluation:

1. **Assessment:** Examine all electronic equipment currently in use to identify broken or outdated pieces.
2. **Categorization:** Sort electronic waste into three categories: recyclable, usable, and irreversibly damaged.

Sampling Spare Parts:

1. **Designated Area:** Provide a specific location where electronic equipment disassembly can be done safely.
2. **Training:** Provide personnel with training or designate a specific team to remove usable spare components.

Inventory Control and Storage:

1. **Secure Storage:** Establish a safe place for storing recovered spare components.
2. **Labeling and Tracking:** Implement a labeling system and maintain an accurate inventory for easy tracking.

Repairing and Reassembling:

1. **Identification:** Determine which electronic equipment needs to be upgraded or repaired within the organization.
2. **Utilization:** Repair and upgrade devices using salvaged spare components.

Education and Skill Development:

1. **Training Programs:** Provide training to employees on harvesting, repairing, and reassembling spare components.


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2. Collaboration: Work with external experts or organizations to enhance skills in the maintenance and repair of electronic devices.

Awareness Campaigns:

- 1. Educational Initiatives:** Conduct education initiatives aimed at teaching staff, professors, and students about e-waste management.
- 2. Benefits:** Highlight the advantages of reusing spare components and their positive environmental impact.

Practical Demonstrations:

- 1. Student Labs:** Use e-waste and spare parts for practical demonstrations in student labs to enhance learning.

Donation and Distribution:

- 1. Identification:** Determine suitable locations within the organization or community for the donation or distribution of repaired electronic equipment.
- 2. Equitable Process:** Create a fair and transparent process for distributing reconditioned electronics.


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Policy Report on Water Conservation Facilities

Introduction

Water is an essential resource that is critical to the sustainability of our environment, economy, and public health. As global populations continue to grow and climate change impacts become more pronounced, the need for effective water conservation strategies has never been more urgent. Recognizing this necessity, our college has taken proactive steps to implement water conservation facilities and practices across the campus. Effective water conservation measures are desperately needed, nevertheless, as pollution and water scarcity both rise. In order to ensure sustainable water consumption on campus, college is committed to addressing this issue by putting in place extensive water conservation facilities and initiatives.

Objectives and Goals

1. Minimization of Water Use and Waste:

To execute tactics aimed at reducing the overall water use on campus, such as the installation of low-flow faucets, quick leak repair, and encouragement of water-saving measures in labs, restrooms, and landscaping.

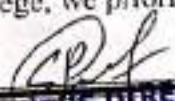
To use routine monitoring and analysis to pinpoint and resolve areas of water waste.

2. Improving Groundwater Recharge:

Installing rainwater harvesting systems, which include rooftop collection, infiltration trenches, and storage tanks, will allow rainwater to be collected and stored for later use.

To investigate methods for well recharge, such as well injection systems or channeling collected rainfall toward wells, in order to replenish groundwater resources.

3. Upkeep of Water Bodies and Water Distribution Efficiency: A well-maintained water distribution system was essential for effective water management. At our college, we prioritized


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