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ENERGY AND ENVIRONMENT POLICY

1. Introduction

Al Azhar Dental College is committed to promoting environmental sustainability and responsible energy usage within the campus. The institution recognizes its responsibility to minimize environmental impact through efficient resource management, reduction of carbon emissions, and promotion of eco-friendly practices.

The Energy and Environment Policy aims to create a **sustainable, healthy, and environmentally responsible campus** by encouraging energy conservation, responsible waste management, water conservation, and environmental awareness among students, faculty, staff, and visitors.

The policy aligns with the principles of sustainable development and follows the environmental norms prescribed by regulatory bodies including the **Kerala State Pollution Control Board** and **Kerala University of Health Sciences (KUHS)**.

2. Scope of the Policy

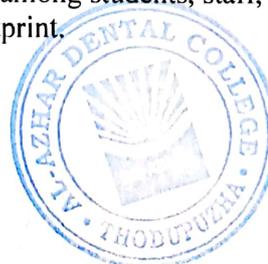
This policy applies to:

- Students
- Faculty members
- Administrative staff
- Non-teaching staff
- Patients and visitors
- All departments, hostels, laboratories, clinics, and administrative units of the college and hospital.

3. Objectives

The key objectives of this policy are:

1. To reduce environmental pollution and promote ecological sustainability.
2. To improve energy efficiency and reduce unnecessary energy consumption.
3. To promote the use of renewable and alternative sources of energy.
4. To develop sustainable water management practices.
5. To ensure effective waste management and recycling.
6. To maintain a **green and pollution-free campus environment**.
7. To promote environmental awareness among students, staff, and the community.
8. To reduce the institutional carbon footprint.



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4. Energy Conservation Initiatives

The institution adopts the following measures to ensure efficient energy utilization:

4.1 Use of Renewable Energy

- Installation of **solar energy systems** wherever feasible.
- Promotion of renewable energy sources to reduce dependence on conventional electricity.

4.2 Energy Efficient Infrastructure

- Use of **LED lighting and energy-efficient electrical equipment.**
- Installation of **sensor-based lighting systems** in selected areas.
- Periodic maintenance of electrical equipment to ensure energy efficiency.

4.3 Responsible Energy Use

- Encouraging staff and students to switch off lights, fans, and equipment when not in use.
- Regular monitoring of electricity consumption.
- Conducting energy audits periodically.

The institution also promotes sustainable practices such as solar energy utilization and energy-efficient systems to reduce carbon emissions.

5. Water Conservation and Management

To ensure sustainable use of water resources, the institution implements:

- **Rainwater harvesting systems** to recharge groundwater.
- Proper maintenance of water supply systems to prevent leakage.
- Installation of **water-saving fixtures.**
- Reuse of treated water through **sewage treatment plants (STP).**
- Awareness programs for water conservation.

These measures help in efficient water management and environmental sustainability.

6. Waste Management

The institution follows a systematic waste management protocol including:

6.1 Solid Waste Management

Solid waste generated within the campus is segregated at the source using color-coded bins. Biodegradable and non-biodegradable wastes are handled separately to ensure proper disposal.



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Biomedical and clinical waste generated from the dental hospital is managed through:

- **On-site incineration facility** for appropriate biomedical waste disposal.
- Collaboration with **Indian Medical Association Goes Eco-friendly (IMAGE)**, an authorized biomedical waste management initiative, for safe collection, transport, and disposal of biomedical waste.

This ensures environmentally safe handling and disposal of infectious and hazardous waste generated from clinical procedures.

6.2 Liquid Waste Management

The institution has a **Sewage Treatment Plant (STP)** for the effective treatment of liquid waste generated from the hospital, laboratories, hostels, and other campus facilities.

The treated water is safely discharged or reused for appropriate non-potable purposes in accordance with environmental regulations.

6.3 E-Waste Management

Electronic waste generated within the institution, including outdated computers, printers, and electronic equipment, is handled through a **Memorandum of Understanding (MoU)** with an **authorized e-waste recycling company** (PROGRESSIV-E RECYCLING AND TRADING).

The e-waste is periodically collected and disposed of through environmentally responsible recycling processes to prevent environmental contamination

7. Green Campus Initiatives

To maintain an eco-friendly campus environment, the institution undertakes:

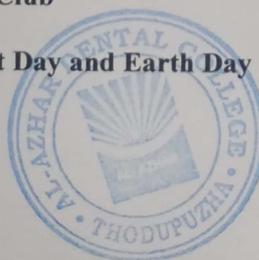
- **Ban on plastic usage within the campus**
- **Tobacco-free campus policy**
- **Pedestrian-friendly pathways**
- **Restricted entry of vehicles**
- Landscaping with trees and plants
- Development of **herbal gardens, vegetable gardens, and biodiversity areas**

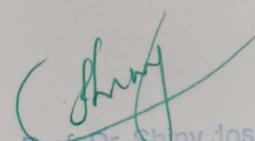
The institution promotes a green campus through landscaping, vehicle restrictions, and environmental awareness activities.

8. Environmental Awareness and Community Participation

The institution promotes environmental responsibility through:

- Activities organized by the **Nature Club**
- Tree plantation drives
- Observance of **World Environment Day and Earth Day**




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- Community outreach and environmental awareness programs
- Organic gardening and vermicomposting activities

These initiatives help educate students and staff on environmental protection and sustainable living practices.

9. Roles and Responsibilities

9.1 Management

- Provide infrastructure and financial support for environmental initiatives.
- Ensure implementation and monitoring of environmental policies.

9.2 Principal

- Ensure the effective implementation of the policy.
- Coordinate environmental initiatives and sustainability programs.

9.3 Environmental / Green Campus Committee

- Monitor implementation of the policy.
- Conduct audits and assessments.
- Organize environmental awareness programs.

9.4 Faculty and Staff

- Promote eco-friendly practices.
- Encourage students to adopt sustainable habits.

9.5 Students

- Participate in environmental programs and awareness campaigns.
- Follow waste segregation and energy conservation practices.



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