



PRESIDENCY UNIVERSITY

Presidency University Act, 2013 of the Karnataka Act No. 41 of 2013 | Established under Section 2(f) of UGC Act, 1956

Approved by AICTE, New Delhi

POLICY ON ALTERNATE ENERGY RESOURCES, WATER CONSERVATION AND WASTE MANAGEMENT

(This Policy has been made in accordance with section 4.1.7 (ii) of the First Statutes)

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REGISTRAR 

CONTENTS

1.	PREAMBLE.....	Error! Bookmark not defined.
2.	SHORT TITLE & COMMENCEMENT	Error! Bookmark not defined.
3.	EXTENT AND APPLICABILITY	3
4.	SCOPE	3
5.	OBJECTIVES:	3
6.	DEFINITIONS	4
7.	ALTERNATE ENERGY RESOURCES.....	4
8.	WATER CONSERVATION.....	5
9.	WASTE MANAGEMENT.....	5
10.	STAKEHOLDER ENGAGEMENT.....	7
11.	MONITORING AND REPORTING	7
12.	AMENDMENTS.....	8



POLICY ON ALTERNATE ENERGY RESOURCES, WATER CONSERVATION AND WASTE MANAGEMENT

1. PREAMBLE

Presidency University is committed to promoting sustainable practices and environmental stewardship. In alignment with the UGC Guidelines for Development of Green Campus, this policy aims to integrate the use of alternative energy resources, promote water conservation, and implement effective waste management practices within the university premises. By adopting these sustainable initiatives, the university seeks to reduce its carbon footprint, conserve natural resources, and foster a culture of environmental consciousness and sustainability among students, faculty, and staff.

2. SHORT TITLE & COMMENCEMENT

- 2.1 This document shall be called the **“Policy on Alternate Energy Resources, Water Conservation, and Waste Management”**.
- 2.2 This Policy shall come into effect from the date of approval by the Board of Management of the Presidency University.

3. EXTENT AND APPLICABILITY

- 3.1 This Policy shall apply to all students, and employees, both academic and non-academic, as well as staff of the all Departments of the University.
- 3.2 To achieve the objectives of this Policy, all employees and departments of the University shall adhere to and follow this Policy in letter and spirit.

4. SCOPE

This policy outlines the guidelines and measures to be implemented by Presidency University to promote the efficient use of alternate energy resources, water conservation, and effective waste management. By adopting sustainable practices, the University aims to reduce its environmental impact, contribute to the development of renewable energy sources, conserve water resources, and minimize waste generation.

5. OBJECTIVES

The key objectives of this policy are:

- 5.1 **Alternate Energy Integration:** To harness alternate energy resources, such as solar, wind, and biomass, to reduce dependency on conventional energy sources and minimize greenhouse gas emissions.



5.2 **Water Conservation:** To implement water-efficient practices and technologies to conserve water resources and reduce wastage.

5.3 **Waste Management:** To adopt a comprehensive waste management strategy that promotes recycling, waste reduction, and responsible disposal, to minimize environmental impact.

5.4 **Sustainable Campus Development:** To ensure that all future infrastructural and developmental projects adhere to sustainable and eco-friendly principles.

6. DEFINITIONS

In this Policy, unless the context otherwise requires:

- i. **“Act”** means the Karnataka Act No. 41 of 2013 and the Presidency University Act 2013.
- ii. **“Board of Governors”** means the Board of Governors of the University.
- iii. **“Board of Management”** means the Board of Management of the University
- iv. **“Chancellor”** means the Chancellor of the University.
- v. **“Finance Officer”** means the Finance Officer of the University.
- vi. **“Sponsoring Body”** means the A.H. Memorial Education Trust, Bengaluru, Karnataka.
- vii. **University** means the Presidency University, Itgalpur, Rajanakunte, Yelahanka, Bengaluru, Karnataka (hereinafter referred to as the University)
- viii. **“Vice Chancellor”** means the Vice Chancellor of the University.

Words and expressions used herein and not defined but defined in the Act shall have the same meaning as assigned to them in the Act.

7. ALTERNATE ENERGY RESOURCES

7.1 Renewable Energy Generation

- i. The University commits to increasing its reliance on renewable energy sources, such as solar, wind, biomass, and hydroelectric power.
- ii. The University shall conduct a comprehensive energy audit to identify areas where energy consumption can be reduced and promote the use of energy-efficient technologies.
- iii. PU shall install solar panels and other renewable energy infrastructure across campus buildings aiming for a significant portion of the University's energy demand to be met through renewable sources.
- iv. The University shall install biogas plants as an alternate source of energy.
- v. The University shall introduce the usage of smart technology to save energy by installing sensor-based mechanisms to allow lighting, fans, and other equipment that uses minimum electricity to be used judiciously.
- vi. The University shall implement the installation of LED lighting for energy efficiency. The LED lighting shall be installed in classrooms, labs, auditoria, halls, etc.



- vii. PU, in collaboration with research institutions and Government agencies, shall foster the exploration of innovative and sustainable energy solutions.
- viii. As and when more than sufficient solar energy is generated by the institution, the extra energy shall be wheeled to the grid for use subsequently.

8. WATER CONSERVATION

8.1 Water Efficiency Measures

- i. The University shall implement water-efficient practices to minimize water consumption throughout the campus.
- ii. PU shall prioritize the installation of low-flow faucets, showerheads, and water-efficient fixtures in all new construction and retrofitting projects.
- iii. The University shall ensure regular maintenance of plumbing systems and prompt repair of leakages.
- iv. PU shall conduct awareness campaigns and educational programs to promote responsible water usage among students, faculty, and staff.

8.2 Rainwater Harvesting

- i. PU shall implement rainwater harvesting systems in all suitable campus buildings to collect and store rainwater for various non-potable uses such as landscape, irrigation, toilet flushing, and cooling systems.
- ii. The University shall provide appropriate infrastructure and guidelines for rainwater harvesting to ensure that captured rainwater is utilized efficiently.

8.3 Greywater Management

- i. The University shall install Greywater treatment systems to treat and reuse wastewater from sinks, showers, toilets and laundry facilities for non-potable purposes.
- ii. As a principle, PU shall not permit the drilling of bore wells. It shall only be allowed when it is absolutely necessary to do so and existing borewells shall be recharged by building recharge pits, and creating rainwater discharge into the recharge pits.
- iii. The University shall build storage tanks or bunks to hold extra water.
- iv. PU shall issue Guidelines and develop educational programs to promote responsible use and management of greywater.



9. WASTE MANAGEMENT

9.1 Solid Waste Management

- Presidency University ensures that the solid degradable waste is segregated into organic waste and is used to prepare compost for in-house consumption and non-degradable waste is collected by the Bengaluru Mahanagara Palike.
- Maximized use of paperless technology i.e., sharing of data /Lecture notes on google classroom, google cite, college website, e-mail etc.
- All one-side used papers are utilized for need-based printing activities.

9.2 Liquid waste management

- PU ensures that the Chemical liquid waste generated in the labs are collected in separate soak pits which are located away from the water bodies.
- The University soak pits are periodically emptied and dumped in special areas outside the campus with due care.

9.3 Waste Reduction

- i. The University shall promote waste reduction and recycling practices throughout the campus.
- ii. PU shall ensure that recycling bins are strategically-placed across campus, providing convenient access for proper waste segregation.
- iii. The University shall establish partnerships with local recycling facilities to ensure effective waste management and maximize recycling efforts.
- iv. PU shall conduct awareness campaigns and educational programs to educate the University community about waste reduction and recycling techniques.

9.4 Composting

- i. PU shall establish composting facilities to process organic waste generated on campus.
- ii. The University shall ensure that the compost produced shall be used for landscaping, gardening, and other suitable purposes within the University.
- iii. PU shall ensure that guidelines and training programs on composting are provided to staff, students, and faculty members to encourage the proper separation and disposal of organic waste.

9.5 Hazardous Waste Management

- i. The University shall ensure safe handling, storage, and disposal of hazardous waste generated on campus, adhering to relevant environmental regulations and guidelines



- ii. PU shall also ensure that appropriate storage facilities, labelling, and training programs are provided to personnel dealing with hazardous materials.

9.6 E-waste management

- i. The IT Department of the University shall be responsible for e-waste management. At the time of the procurement process, a structured plan for managing e-waste shall be developed.
- ii. The IT Department of the University shall also ensure that MoU is executed with an authorized e-vendor to ensure the recycling of e-waste.

9.7 Towards a Green and Sustainable Campus

- i. The University makes efforts to promote environmental awareness and sustainability among its constituents and shall uphold the practice of an environmentally friendly campus.
- ii. The University shall ensure the implementation of Green Audit to procure the certification for a Green Campus.
- iii. The University shall develop a policy for vehicle entry restrictions. To prevent pollution, the University shall restrict the number of vehicles inside the campus and the campus shall be accessible by foot, by cycle, or by electric vehicles.
- iv. PU, in an effort to reduce carbon emissions, shall ensure that electric vehicles are provided for campus transportation to facilitate visitors and students who are *Divyangjan*.
- v. The University has designated Pedestrian-friendly walkways around the campus to ensure safety to pedestrians.
- vi. The University shall have a zero-tolerance policy towards the ban on plastics.
- vii. PU shall arrange tree plantation drives and the visitors shall be requested to plant trees during their visit to the campus.

10. STAKEHOLDER ENGAGEMENT

- 10.1 The University encourages active participation and engagement of students, faculty, staff, and relevant external stakeholders in implementing the policy.
- 10.2 PU collaborates with government agencies, industry experts, and research institutions to foster, leverage expertise, resources, and funding opportunities, to implement this Policy.

11. MONITORING AND REPORTING

- 11.1 The University has a well-established monitoring and reporting system to assess the effectiveness of this Policy.



- 11.2 PU conducts regular periodic audits and inspections to evaluate energy consumption, water usage, and waste management practices.
- 11.3 The University shall ensure that annual reports are published to communicate progress, achievements, and areas for improvement regarding alternate energy resources, water conservation, and waste management.

12. AMENDMENTS

This Policy shall be reviewed periodically to rectify anomalies, (if any), and to incorporate feedback received from the stakeholders through impact analysis, and deliberations of the Focus Group, constituted by the Vice-Chancellor.

