

PSN ENGINEERING COLLEGE

Melathediyoor, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : www.psnec.ac.in Email : principal@psnec.ac.in

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ENERGY POLICY

As per the AICTE Environment Policy 2020, that sets long term goals for educational institutes to conserve natural environment, develop sustainable solutions and control energy consumption, an educational institution has to evolve programs and policies that turns the institute into a carbon- negative institute and promote in educating students and employees on environmental concerns and sustainability, be responsive to the emerging challenges in the Energy sector and Sustainable development of the State and Country. So, it is essential for the educational community to practice sustainable energy that will provide favorable effect on the eco-system.

1. OBJECTIVES

The **Energy Policy of the PSNEC** articulates in organizing structured programs to promote awareness on the proper management and conservation of energy that models a resource-efficient and low-carbon campus which demonstrates practice for sustainability.

Through the policy, the Cell focuses on the following objectives:

- a) Utilize energy resources efficiently by introducing innovative technologies
- b) Promote efficient use of renewable energy.
- c) Optimize the Energy consumption and cost.
- d) Reduce, Reuse and Recycle.
- e) Carry out regular internal energy audits to identify energy conservation opportunities.
- f) Regular monitoring and follow up procedures managed by the Institution Energy Audit for effective implementation at department levels.
- g) Train faculty, non-teaching staff, students and housekeeping staff to make the Institute a role model in the area of Energy conservation.
- h) Encourage faculty members to obtain certification as Certified Energy Auditors and Managers.
- i) Establish ties with Industries or Institutions such as the Energy Management Centre conduct a complete Energy Audit.
- j) Promote awareness related with Energy conservation among various sections of society.
- k) Review the Policy on a regular basis.

2. SCOPE

The policy facilitates the Energy to ensure involvement of all the stake holders of the institution in the practice of Energy Conservation, through awareness programs for students and faculty and encouraging faculty members to obtain certification as Certified Energy Auditors.

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Students and Faculty involvement is facilitated through green audit, encouraging projects related to Energy conservation and Management, Renewable Energy, Waste to Energy, Internal Energy audits, etc. to working under the Solar Plant, Repair, Re-use and frequent maintenance of equipment to ensure sustainable longevity, Sensor controlled lights, periodic shift to LEDS, etc.

3. POLICY STATEMENT

The PSNEC Energy Policy articulates commitment of the Institution to the conservation of energy by defining energy management protocol for thermal and electrical energy systems of the institution, focusing on sustainable practices in reducing carbon footprint and other environmental impacts as per Energy Conservation and Management for an eco-friendly green campus.

4. RESPONSIBILITY

The Energy Management Team comprises of:

- (i) Director
- (ii) Principal
- (iii) NAAC Coordinators, Criteria 7 members
- (iv) Members from all departments.

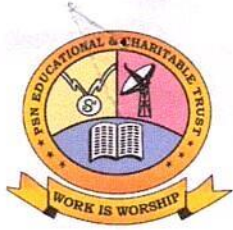
5. RELATED POLICIES/PROCEDURES

- (i) PSNEC Environment Policy

The Energy should carry out the action plan and ensure the energy resources are made available and utilized optimally.

Energy Optimization Plan

1. Regular Monitoring and benchmarking resource use and waste generation.
2. Monitor and evaluate the energy performance levels
3. Setting short term and long term targets and conservation strategies, to achieve and surpass goals for zero-carbon Campus.
4. Use of energy efficient, star labeled equipment.
5. Periodic maintenance and replacement of other lights/lighting fixtures to LED.
6. Maintaining a sustainable approach by use of existing equipment efficiently till its life cycle ends, and replacing with more efficient equipment when necessary.
7. Reduce e-Waste to maximum with proper maintenance, before moving on to Replace & Recycle stage.
8. Maximum use of Daylight for Indoor illumination and natural ventilation.
9. Use of occupancy sensors for classrooms, halls, administrative offices, restrooms



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- and sensor-based switches for streetlights, corridor lighting to optimize energy use.
10. Fine tuning of optimum temperature setting of Air Conditioners and Water coolers.
 11. Maximize use of Renewable Energy – Grid Interactive Solar PV System installed in the Campus.
 12. Maximum demand optimization by adequate reactive power management
 13. Encourage students to undertake UG and PG projects on Energy Management, Energy optimization techniques, Renewable Energy Harvesting thereby promoting a sense of awareness towards Energy use and its cost.
 14. Provide training for faculty and students about Energy Management, Energy Auditing.
 15. Include Project learning strategies for Energy Conservation and Energy management courses in the curriculum in tie up with Industries.

Mechanism:

The Energy should lay down well-defined procedures as mentioned below, that follows the indicated stages.

- i. Create Energy Baseline Assessment
- ii. Define the Energy Agenda of the Academic year
- iii. Create Implementation guidelines
- iv. Review: Monitoring and follow-up.

6. POLICY HISTORY

The AICTE Energy Policy 2020, THE ENERGY CONSERVATION ACT, 2001, were referred to draft this policy.

PRINCIPAL
Dr. M.S. RAVIKUMAR
Principal
PSN ENGINEERING COLLEGE
Melathediyoor, Palayamkottai
Tirunelveli - 627 152



ENVIRONMENT POLICY

1. Statement of Environmental Policy

In the interest of the environment, the institution aspires to be a pioneer in adopting green projects. The objectives of the ensuing guidelines are to improve the ongoing operations of PSNEC competent ecological management.

2. Purpose

This policy will be crucial as the institution works to create a campus that is both fiscally and environmentally sustainable and that embodies its basic principles of engagement and accountability. The PSNEC has pledged in this declaration to accommodate the requirements of students, professors, and staff while protecting the environment for coming generations. The institution is dedicated to assisting its students in developing into active environmental citizens on campus and off, as well as in their own neighborhoods and communities. To reduce the campus environmental impact and that of its operations, the institution will train the local population and put the best practices into practice. The institution will work to achieve the UN sustainable development.

3. SCOPE

This policy is applicable to all institutional stakeholders, including staff, teachers, and students.

4. Guidelines

- The Institution will take into account how its development, communications, and procurement, as well as its curriculum, research, and campus activities, will affect the environment.
- The institution will make an effort to live sustainably, with a focus on protecting its natural gardens and woodlands with trees, plants, and landscaping.
- By recycling sewage and waste water, the Institution will promote water reuse.
- By incorporating pertinent environmental topics into curriculum materials where it is practical, the Institution will increase its dedication to environmental education.
- The Institution will dispose of its garbage in a responsible manner and

segregate it appropriately. For its energy needs and solar water heating system, the institution will work to increase renewable energy sources like solar.

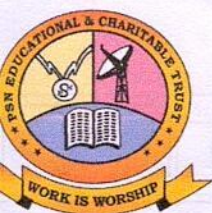
- The institution will conduct an energy audit to determine how much electricity is being used by various electrical installations. Effective air and noise pollution monitoring will be done by the institution.
- The institution will successfully sort the electronic garbage and send it to the appropriate government approved institutions for disposal.
- The Institution will only buy appliances, computers, and paper items with the ENERGY STAR label from ethical vendors through Ecologo. A user-friendly sustainability website with pointers, connections, and recommendations for adhering to policy directives will be maintained by the Institution. At key sites, the institution will implement and deploy presence sensors.
- The organization will try to put in water-saving dispensers. Ground water rejuvenation techniques will be used by the institution on campus. The institution will place a strong emphasis on outright prohibition of plastic use.
- The institution will construct pedestrian-friendly pathways for the staff and students safe and simple circulation throughout the campus.

5. Future Environmental Actions:

The institution will work to implement the ZERO concept of environmental protection and conservation, according to which it will put rules and procedures in place to ensure ZERO wastage of food, water, and energy.


Principal

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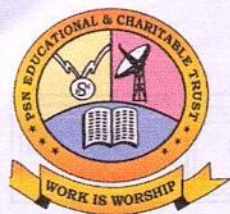
Policy Document on Environment and Energy Usage

The Environment and Energy usage Policy of PSN Engineering College (PSNEC) is to manage energy in such a systematic way so as to minimize its impact on the environment. The policy implies to explore the renewable energy resources to reduce the burden of the government and to find out alternate resources as solutions to the energy crisis.

This environment and energy policy is binding for all the components of the institution and applies to all its stakeholders and to the various activities undertaken by the institution. It will help us to embed efficiency and environmental awareness into our everyday activities, thus helping us to realize our responsibilities and commitment to conservation of natural resources and to limit its usage. Green Campus Committee is devoted to the cause of environmental awareness, to undertake green initiatives, and to conduct green literacy programmes to save energy and to protect the environment.

Policies:

- To assess our energy usage and measure its impact on the environment.
- To count CO2 emissions generated by our means of transportation - Vehicles.
- To reduce local air pollution emissions using environment-friendly vehicles, including bicycles, public transportation and use of pedestrian-friendly roads.
- To install photo voltaic solar panels for the generation of alternate energy.
- To install LED bulbs in the whole campus to save energy.
- To develop systematic waste management mechanism.
- To develop rainwater harvesting unit.
- To undertake tree plantation drive.
- To take additional measures to continuously improve our energy consumption.
- To ensure the availability of necessary resources to achieve our objectives.
- To encourage use of advanced technology to minimize energy consumption, atmospheric emissions and noise, particularly from our vehicle fleets.
- To engage in dialogue with the government agencies, municipal corporation and the affiliating university and actively work with the local organizations in the areas



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of environment, energy efficiency and sustainable development.

- To monitor and respond to emerging environmental and energy issues. To strengthen our employees' and students' environmental knowledge and skills in order to improve our own environmental performance.
- To provide information and training opportunities on energy saving measures.
- To offer opportunities for employees and students to engage in initiatives which contribute to environmental protection To train our employees and students to make them 'Go Green Specialists' and partners to plant trees each year.

This policy will be communicated to the students and employees via internal communication channels, and will be made available to all the stakeholders on the institutional website. The Environment and Energy Policy, objectives and targets will be reviewed on a regular basis by the Green Campus Committee Convener and its members under the guidance of the Principal of the college.

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