



AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय



Approved by AICTE, New Delhi, Recognized by Government of Maharashtra
Affiliated to Savitribai Phule Pune University and recognized 2(f) and 12(B) by UGC
(Id.No. PU/PN/Engg./093 (1992))

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Reduce, Reuse and Recycle

Reduce, Reuse and Recycle



Policy Document on Environment and Energy Usage for AISSMS COE, Pune

1. Introduction

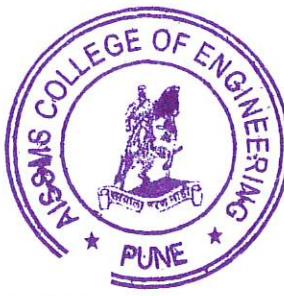
At AISSMSCOE (All India Shri Shivaji Memorial Society's College of Engineering), we recognize the critical importance of sustainable practices in mitigating environmental impact and promoting energy efficiency. As an institution committed to excellence in education and research, we aim to integrate environmental responsibility and energy conservation into all aspects of our operations. This policy document outlines our commitment to environmental sustainability and energy efficiency and provides guidelines for achieving our goals.

2. Vision

To establish AISSMSCOE as a model institution for green practices, fostering environmental consciousness, and inspiring sustainable living among students, staff, and the community.

3. Preamble

Environment-friendliness and energy harvesting are of prime interest today which are the key factors in achieving Sustainable Development Goals (SDGs) for any organization. Keeping these factors in specifying energy policy of All India Shri Shivaji Memorial Society's College of Engineering , we presume that it is in accordance with the prescriptions of National Institution for Transforming India (NITI) Aayog with reference to support for renewable energy resources.



Another factor of significance is rapidly and dynamically increasing energy demand. Since conventional sources cannot meet this requirement easily, AISSMS COE has incorporated establishment of alternate energy sources in the form of Solar PV generation.

AISSMS COE energy policy also has taken an efficient energy management and conservation through good established procedures specified in its policy.

4. Statement

The Energy policy of AISSMS COE monitor, conserve and manage the energy needs of the campus with the growth in the energy demands of the institute; It is the responsibility of the institute in Creating awareness among the students and staff about the energy conservation measures. Maintain the efficiently utilize the Electrical Energy with maximum utilization of Renewable PV Power Generating system and Optimal consumption of lighting load with the proper energy conservation measures in the campus. Also maintain green energy campus with utilization of energy management system.

The primary goal of this policy is to achieve net-zero carbon dioxide emissions by balancing human induced carbon dioxide emissions

The following objectives will lead to the implementation of AISSMS COE Energy policy

5. Objectives

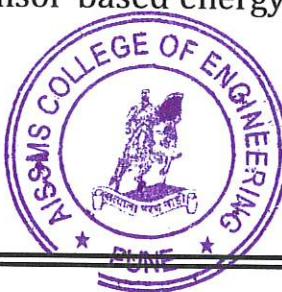
1. To minimize the environmental impact of our operations through sustainable practices.
2. To reduce energy consumption and promote the use of renewable energy sources.
3. To raise awareness and educate students, staff, and stakeholders about environmental conservation and energy efficiency.
4. To comply with relevant environmental regulations and standards.



5. Implement comprehensive waste management practices, including recycling, reducing single-use plastics, and promoting responsible disposal.
6. Conduct regular energy audits to identify opportunities for energy conservation and implement energy-efficient technologies.
7. Install rainwater harvesting systems to collect and reuse rainwater for various purposes.
8. Develop and implement training programs to educate staff and students on environmental conservation, waste reduction, and energy efficiency.
9. Establish a designated committee to oversee the organization's adherence to this policy.

6. Policy

1. Encourage use of advanced technology to minimize energy consumption.
2. Maintain the Energy needs of the campus with back-up power supply system for supplying uninterrupted energy demands.
3. Establishment of energy efficient utilization measures in the supply, demand systems as part of energy management of the campus.
4. Carry out energy audits on regular basis for identification of energy conservation opportunities.
5. Promote environment-friendly vehicles including bicycles, public transportation for reduction in pollution.
6. Expansion of installed Solar PV System in Phased manner.
7. Replacement of the existing conventional lighting with the LED lamps in phased manner.
8. Develop rain water harvesting unit.
9. To develop systematic waste management mechanism.
10. Increase tree plantation cover on campus.
11. To contribute actively in all the energy and environment related initiatives of government agencies, municipal corporation and the affiliating university. To restrict-entry-of automobiles in the campus
12. Implementation of Sensor-based energy conservation.



7. Action plan for the implementation of policy

1. Encourage use of advanced technology to minimize energy consumption.
2. Maintain the Energy needs of the campus with back-up power supply system for supplying uninterrupted energy demands.
3. Establishment of energy efficient utilization measures in the supply, demand systems as part of energy management of the campus.
4. Organise SESI Green Energy Cell activities towards Energy Literacy Drive
5. Carry out energy audits on regular basis for identification of energy conservation opportunities.
6. Promote environment-friendly vehicles including bicycles, public transportation for reduction in pollution.
7. Expansion of installed Solar PV System in Phased manner.
8. Organise Energy literacy campaign which is the first step towards climate correction through ENERGY SWARAJ FOUNDATION
9. Replacement of the existing conventional lighting with the LED lamps in phased manner.
10. Implementation of rain water harvesting unit.
11. To develop systematic waste management mechanism.
12. Ensuring the improvement of drinking water quality by installation of water purifiers in many places in the campus.
13. Increase tree plantation cover on campus.
14. To contribute actively in all the energy and environment related initiatives of government agencies, municipal corporation and the affiliating university. To restrict-entry-of automobiles in the campus
15. Implementation of Sensor-based energy conservation.
16. Organise trainings and awareness programs for staff, students and society.



8. Follow-Up

Monitoring-

- Energy conservation implementation will not be successful if progress is not monitored continuously.
- Energy Meter readings tracking records consumption pattern, and the data can be used to locate problem areas as well as determine if conservation goals are being met.
- The college currently has most of its campus buildings metered for electric consumption, also metered on a per-building basis”

Training-

Training ensure that both operations and service technicians have the skills and knowledge to effectively apply the technology used to achieve energy savings

Education-

The staff and student cooperation and support of the energy policy are key to its success. An education program that provides information on utility costs, trends, and user impact on these costs

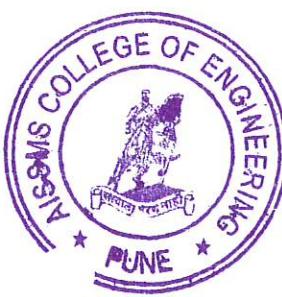
9. Conclusion

This policy document reflects our commitment to environmental stewardship and responsible energy usage. By adhering to these guidelines, All India Shri Shivaji Memorial Society's College of Engineering aims to contribute positively to the global effort to create a sustainable and resilient future.

Date of Approval: 01.07.2023



Signature
Dr. D S Bormane
Principal



Reduce, Reuse and Recycle



AISSMS

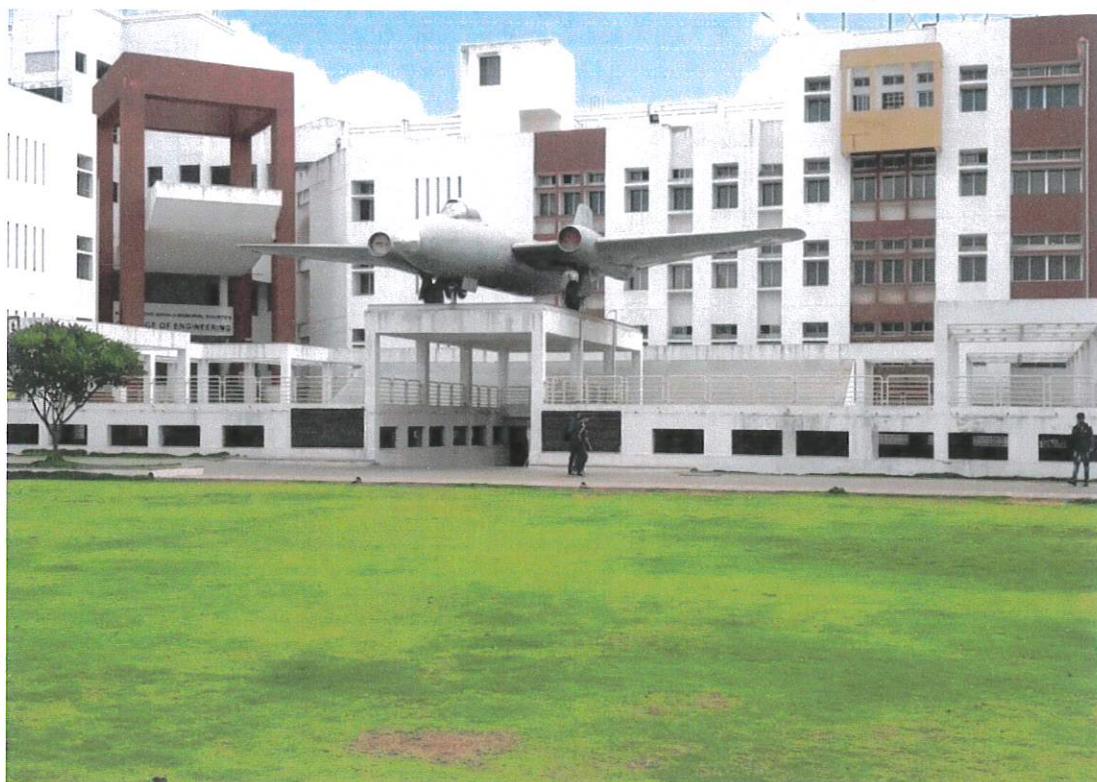
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GREEN CAMPUS POLICY



Green Campus Policy Document for AISSMS COE, Pune

1. Introduction

As an institution committed to academic excellence and sustainable development, AISSMS COE (All India Shri Shivaji Memorial Society's College of Engineering), Pune, recognizes the importance of creating a Green Campus. This policy document outlines the guidelines and strategies to promote environmental sustainability, energy efficiency, and eco-friendly practices within the campus.

2. Vision

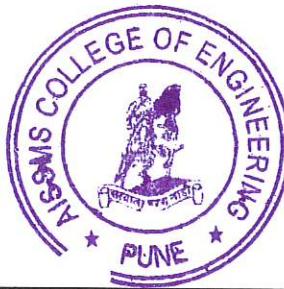
To establish AISSMS COE as a model institution for green practices, fostering environmental consciousness, and inspiring sustainable living among students, staff, and the community.

3. Preamble

All India Shri Shivaji Memorial Society's College of Engineering, Pune aim to manage its operations in ways that are environmentally sustainable, economically feasible and socially responsible i.e. making the College a Green Campus where environmental friendly practices and education combine to promote sustainable and eco-friendly practices.

The College is striving to develop on a self –sustainable basis in the areas of power, water and cleanliness. Therefore, this policy represents an important component of the College's broader sustainability strategy.

The green policy also aims to build leadership in society and future generations by imparting climate change and sustainable development education and implementing green and sustainable practices on the campus.



This document sets out the College's aims and objectives for safeguarding the environment, and details the organisation and arrangements for implementing and monitoring them

4. Scope of the Policy

The Green Campus Policy will develop exciting new co-curricular and extra-curricular practices that encourage students to take the lead in creating positive change. These initiatives call for a thorough review of all infrastructural, administrative functions from the standpoints of energy efficiency, sustainability and the environment.

The focus areas of this policy are:

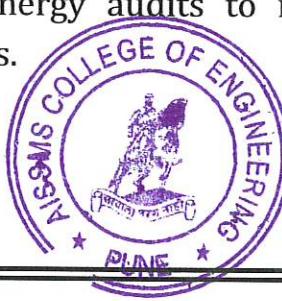
Clean Campus Initiatives

- a. Landscaping Initiatives
- b. Clean Air Initiatives
- c. Smoking Free Campus
- d. Infrastructure
- e. Solar PV Power Plant
- f. Installation of Energy Efficiency Equipment
- g. Water Conservation through Rainwater Harvesting System
- h. Waste Management processes
- i. E-Waste Management
- j. Environment-centric Student and Department Activities
- k. Pedestrian friendly pathways
- l. Green Audit
- m. Energy Audit

5. Objectives

5.1. Energy Conservation

- a. Implement energy-efficient technologies and systems.
- b. Encourage the use of renewable energy sources, such as solar power.
- c. Regularly conduct energy audits to identify and address energy consumption patterns.



5.2. Waste Management

- a. Promote waste reduction through recycling and composting.
- b. Implement a comprehensive waste segregation system across the campus.
- c. Encourage the use of biodegradable and eco-friendly products.

5.3. Water Conservation

- a. Implement water-efficient technologies and practices.
- b. Promote rainwater harvesting
- c. Conduct awareness campaigns on responsible water usage.
- d. Conduct training for waste water management

5.4. Green Infrastructure

- a. Increase green cover through tree plantation drives.
- b. Create and maintain green spaces for recreation and biodiversity.
- c. Foster a culture of sustainable landscaping practices.

5.5. Sustainable Transportation

- a. Encourage the use of public transport, cycling, and walking.
- b. Promote carpooling and the use of electric or hybrid vehicles.
- c. Provide adequate infrastructure for sustainable commuting.

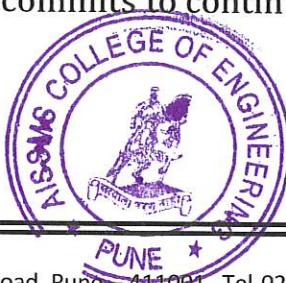
5.6. Environmental Education

- a. Conduct workshops, seminars, and awareness programs on environmental issues.
- b. Foster a sense of responsibility towards the environment through experiential learning.

6. Policy

6.1 Clean Campus Initiatives -

AISSMS College had pledged to actively coordinate cleanliness activities in the college and beyond the campus in accordance with the vision of Swachh Bharat Abhiyan. It commits to continue with this Programme.



The broad vision is as follows:

- a. Generating mass awareness on cleanliness and hygiene amongst students and staff members by holding regular cleanliness drives. The idea is to motivate them to contribute in a proactive manner.
- b. Activities under 'Swachh Bharat Abhiyan' will be a key component of all the community work being done by NSS, NCC and Green Society volunteers of the college.
- c. Staff Members will be encouraged to participate in the cleanliness drive in the college campus.
- d. Remove all kinds of waste material like broken furniture, unusable equipment etc.
- e. Administer of the pledge by students and staff members to maintain cleanliness of the college campus and its surrounding areas on an annual basis

6.2 Landscaping Initiatives-

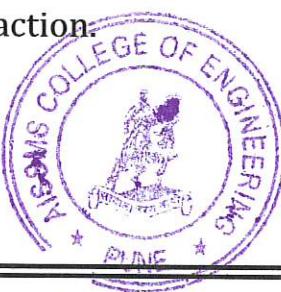
The campus landscape, like its buildings, can be seen as the physical embodiment of a college's values. It is a vital part of the life of a campus, providing space for study, play, outdoor events, relaxation and aesthetic appreciation. Green campus landscapes also manage runoff, help recharge groundwater, and clean and cool the air on campus.

The landscape serves as a visual representation of the campus community's commitment to sustainability. As campus landscapes are so visible and accessible, landscaping initiatives are a great way to build awareness around the environment.

There are more than 50 trees and more than 20 shrubs on campus alongwith grass cover. The landscape of trees and plants provide the 2500+ students and staff with clean and cool air and is a soothing environment.

6.3 Clean Air Initiatives-

We encourage our students and staff to use public transportation. We encourage carpooling to college, an activity that will control air pollution and strengthen social interaction.



Faculties and students are encouraged to use METRO by arranging Distribution Kiosk of METRO card on campus to avail 30 % travel discount. "Magalwar Peth Metro Station" is right next to college premises.

6.4 Energy consumption Initiatives -

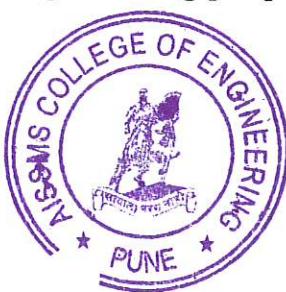
In this context, AISSMS College of Engineering has adopted the following policies.

- a. Activate power management features on your computer and monitor so that it will go into a low power "sleep" mode when you are not working on it.
- b. Turn off your monitor when you leave your Table
- c. Turn off unnecessary lights and use daylight instead.
- d. Use LED or compact fluorescent bulbs as much as possible
- e. Switch off lights, fans in conference rooms, classrooms, lecture halls when they are not in use.
- f. Implement solar power plant to cut down the heavy usage of electricity from utility
- g. Switch off lights, fans in conference rooms, classrooms, lecture halls when they are not in use.
- h. Implement solar power plant to cut down the heavy usage of electricity from utility

6.5 Water Management Initiatives -

In this context, AISSMS College of Engineering has adopted the following policies.

- a. Repair sources of water leakage, such as dripping taps and showers as quickly as possible.
- b. Install appliances which reduce water consumption
- c. Use RO water purification systems.
- d. Use an efficient and hygienic water storage mechanism is to minimize the loss of water during storage.
- e. Use of recycled water for gardening purpose.



6.6 Waste Management Initiatives -

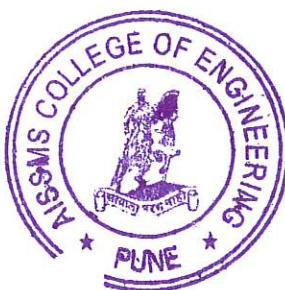
Waste minimization is very important to protect the environment and boost environmental performance. Waste minimization techniques focus on preventing waste from ever being created, otherwise known as source reduction, and recycling,

AISSMS College of Engineering therefore commits to -

- a. Systematically engage with the 3R's of environment friendliness (Reduce, Reuse and Recycle)
- b. Ban single-use plastic Keep a stack of paper that has been printed on one side and use it for day to day rough paper work
- c. Use more readout material in soft form. Reduce the hard readout material. Use more of e- mail for officially communicating the information needed, online reading etc
- d. Prevent the practice of burning plastic and other materials that emit harmful gas on burning
- e. Ensure that all cleaning products used by college staff have a minimal detrimental impact on the environment
- f. Use two types of bins separately for biodegradable and non-biodegradable wastes in the college campus as well as in hostels.
- g. Recycle electronics and batteries in e-waste recycling bins located around campus.
- h. Dispose the chemical waste generated from the laboratories in a scientific manner.

6.7 Plastic-Free Campus Initiatives -

College has been observing most of its duties in terms of solid waste management since its inception. In view of the Government of India's resolution to ban all single use plastics due to the hazardous impact of plastic use and pollution, the college administration strictly bans the use of single use plastics in its premise to make it a 'Plastic Free Campus.



7. Implementation Strategies

- a. Establish a Green Committee comprising representatives from faculty, staff, and students to oversee the implementation of the Green Campus Policy.
- b. Develop and implement an action plan with clear timelines and responsibilities for various initiatives.
- c. Regularly monitor and evaluate the progress of the Green Campus initiatives through periodic audits and feedback mechanisms
- d. Collaborate with local environmental organizations, government agencies, and industry partners to enhance the impact of sustainability efforts
- e. Recognize and reward individuals and departments contributing significantly to green initiatives

8. Follow-Up

Monitoring-

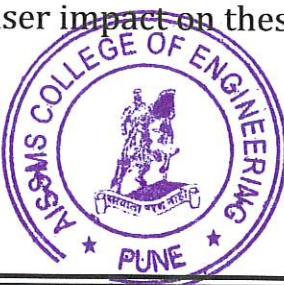
- No energy conservation program will be successful if progress is not monitored on a continuing basis.
- Meter readings can be used to track utility consumption, and the data can be used to locate problem areas as well as determine if conservation goals are being met.
- The college currently has most of its campus buildings metered for electric consumption, also metered on a “per-building basis”

Training-

Training ensure that both operations and service technicians have the skills and knowledge to effectively apply the technology used to achieve energy savings

Education-

The staff and student cooperation and support of the energy policy are key to its success. An education program that provides information on utility costs, trends, and user impact on these costs



9. Conclusion

This Green Campus Policy document serves as a roadmap for AISSMSCOE's commitment to environmental sustainability. By adopting and implementing these guidelines, we aim to create a campus that not only excels in academics but also contributes to a healthier and greener planet.

Date of Approval: 01.07.2023


Signature

Dr. D S Bormane
Principal

