



SCMS SCHOOL OF ENGINEERING & TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM – 683576, PHONE: 0484-2882900, 2450330

E-Mail: sset@scmsgroup.org Website: www.scmsgroup.org/sset

The Green Campus, Energy and Environment Policy



Dr. K. Soman,
President.

Energy Conservation
Society (ECS)

Dr. PRAVEENSAL C. J.
CAMPUS DIRECTOR
SCMS SCHOOL OF ENGINEERING
AND TECHNOLOGY

The Green Campus, Energy and Environment Policy

Introduction

At SCMS School of Engineering and Technology, we are committed to environmental sustainability and fostering a culture of sustainability among our students, faculty, staff, and the wider community. We recognize the importance of protecting and preserving our environment for present and future generations. This policy outlines our commitment to reducing our environmental impact and promoting sustainable practices across all aspects of campus life.

Scope of the Policy

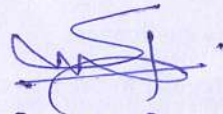
The Green Campus, Energy and Environment Policies will develop exciting new co-curricular and extracurricular practices that encourage students to take the lead in creating positive change. These initiatives call for a thorough review of all infrastructural, administrative functions from the standpoints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

The focus areas of this policy are:

- Clean Campus Initiatives
- Landscaping Initiatives
- Clean Air Initiatives
- Infrastructure
- Waste Management processes
- Awareness Initiatives




Dr. PRAVEENSAL C. J.
CAMPUS DIRECTOR
SCMS SCHOOL OF ENGINEERING
AND TECHNOLOGY


Dr. K. Somay,
President
Energy Conservation
Society (ECS)

Objectives of the Green, Energy, and Environmental Policy

1. Energy Efficiency and Renewable Energy

a. Reduce overall energy consumption on campus through the implementation of energy-efficient technologies, behavioral change campaigns, and awareness programs.

b. Increase the use of renewable energy sources, through partnerships, investments, and on-campus renewable energy generation initiatives.

2. Sustainable Transportation

a. Encourage sustainable transportation options by increasing the number of students, faculty, and staff using alternative transportation methods (e.g., walking, cycling, public transportation, carpooling)

b. Improve infrastructure to support sustainable transportation, including the installation of bicycle racks, pedestrian pathways, and electric vehicle charging stations.

3. Waste Management and Recycling

a. Achieve a waste diversion rate through comprehensive waste management programs, including recycling, composting, and proper disposal of hazardous materials.

b. Minimize the use of single-use plastics and promote the use of reusable and recyclable materials on campus through awareness campaigns, education, and sustainable procurement practices.

4. Water Conservation

a. Reduce water consumption on campus through water conservation measures, such as upgrading plumbing fixtures, implementing smart irrigation systems, and promoting responsible water use practices.

b. Maintain and expand green spaces with drought-tolerant native plant species to reduce irrigation needs and enhance biodiversity.

5. Education and Awareness

a. Integrate sustainability principles and practices into the curriculum across disciplines to enhance environmental literacy and empower students with the knowledge and skills to address sustainability challenges.

b. Conduct regular awareness campaigns, workshops, and events to engage the campus community and foster a culture of sustainability, encouraging active participation in environmental initiatives.

6. Collaboration and Partnerships

a. Foster collaborations and partnerships with local communities, government agencies, and environmental organizations to share best practices, promote knowledge exchange, and contribute to regional and national sustainability goals.

b. Participate in relevant sustainability networks, conferences, and initiatives to stay informed about emerging trends and opportunities in environmental sustainability.

7. Monitoring and Reporting

a. Establish a system to monitor key environmental performance indicators, track progress towards targets, and regularly report on our environmental impact, achievements, and challenges.

b. Conduct periodic audits and assessments to evaluate the effectiveness of sustainability initiatives and identify areas for improvement.

8. Policy Integration

a. Integrate environmental considerations into relevant institutional policies, including procurement policies, construction guidelines, and long-term strategic planning, to ensure sustainability is a core consideration in decision-making processes.

Clean Campus Initiatives

SSET 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:

1. 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.
2. Activities under 'Swachh Bharat Abhiyan' will be a key component of all the community work being done by NSS, UBA and Lakshya volunteers of the college.
3. Staff Members will be encouraged to participate in the cleanliness drive in the college campus.
4. Events such as poster and slogan competitions, essay writing, spoken word poetry, speeches, skits on 'Swachh Bharat' will be organized.
5. Rallies on themes connected with 'Swachh Bharat Abhiyan' in and around the college campus will be conducted to create mass awareness.
7. Recycle or remove all kinds of waste material like broken furniture, unusable equipment etc.

8. Administer of the pledge by students and staff members to maintain cleanliness of the college campus and its surrounding areas on an annual basis.
9. Conduct workshops on the 3Rs: Reduce, reusing and recycling of waste.
10. Commit to manage waste and maintain clean campus especially during college events.

Landscaping Initiatives

The campus is on 23 acres of lush green land located in the outskirts of Kochi City. The natural landscape and the 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.

The college commits to enriching this healthy habitat and maintaining the symbiotic relation of the institution with nature by

- Organizing annual tree plantation drives
- Encouraging student societies to hold tree planting events
- Organic Farming practices
- Community Farming

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. The entry of automobiles inside the campus is restricted to discourage the use of private vehicles.

For this reason, we feel responsible to maintain our green cover. The abundant natural landscape not only cleans the air on campus but also becomes an extension of the green lungs of the city.

◆ Smoking Free Campus

In compliance with the framework provided by the National Tobacco Control Programme (NTCP) 2007-2008, the college prohibits smoking and the use of other tobacco products.

Infrastructural Initiatives

- ◆ **Energy Saving and Energy Efficient Equipment**

We commit to install environment-friendly electrical appliances that save energy and reduce wasteful inefficiencies. The college believes in using cleaner energy such as LED lighting.

- ◆ **Alternative Sources of Energy**

Located in the tropical climate zone with abundant sunlight, the institute has installed Solar Power Panels to produce its own electric energy and support to a sustainable living environment.

Waste Management Processes

SSET strives to have a minimal impact on the environment and is dedicated to reduce and manage the waste generated by the college campus. The following specific procedures will be undertaken to ensure SSET's contribution in protecting the environment.

- ◆ **Solid Waste Management**

With its aim to provide holistic education that also has a positive impact on the environment, the institution will adopt practices that will mitigate the generation, and manage solid waste through the following methods:

- Systematically engage with the 3R's of environment friendliness (Reduce, Reuse and Recycle).
- Collect paper waste produced on campus and collaborate with scrap dealers for recycling.
- Reduce solid waste by developing a technology-centric teaching and administrative model.
- Reduce use of paper by supporting digitization of attendance and internal assessment records.
- Reduce requirement of printed books by updating the e-books and e-journals collection of the college library.
- Encourage the students and teachers to use emails for assignment submissions.

- Take initiatives to spread awareness amongst students about
 - ✓ Food wastage and ways of minimizing it
 - ✓ Minimizing the use of packaged food
 - ✓ The habit of reusing and recycling non-biodegradable products
 - ✓ Organizing workshops for students on solid waste management.

◆ Liquid Waste Management

- Maintain leak proof water fixtures.
- Minimize the use of water by constructing more Indian style toilets instead of western style toilets.
- Continued employment of a caretaker to take immediate steps to stop any water leakage through taps, pipes, tanks, toilet flush etc.
- Prevention of release and mixing of oil from the college canteen liquid-waste in the municipal drainage system by use of Grease trap mechanism. This way the Biochemical Oxygen Demand is reduced in the effluent wastewater produced by the canteen.
- Reuse of waste water generated by the Reverse Osmosis (RO) / Water treatment plants to be used in washrooms, watering of plants etc.

◆ E-Waste Management

SSET ensures that its usage of technology and generation of e-waste does not impact the environment. For this purpose, the college plans to strive towards:

- More provisions for the disposal of the institutional e-waste.
- Collaboration with e-waste recycling companies to get electronic waste recycled.
- Awareness amongst students about reduction of e-waste and environment friendly disposal practices for e-waste.
- Encouraging department and society level activities pertaining to e-waste management.

Awareness Initiatives

Outreach and education are of utmost importance so that all members of the campus community may value the objectives of the policy and aid in its implementation. This is why SSET supports and encourages awareness campaigns, seminars, workshops, conferences and other interactive sessions to facilitate effective implementation of the Green Campus, Energy and Environment policies.

Environment-centric Student Societies and Department Activities

SSET encourages all the departments and specific student societies like, NSS, UBA, Lakshya and others to organize events, competitions and training sessions that will bring about positive environmental changes at the grass-root level. The college supports departments and student societies in moulding the students into active agents of environment protection and conservation.

Conduct Green Audit

The college aims to regularly conduct a Green Audit of our college campus to assess our strengths and weaknesses to further our goals of long-term sustainability. A green audit is a useful tool to determine how and where most energy or water or resources are being used. The college can then consider how to implement changes and make savings. It can determine the type and volume of waste. Recycling projects or waste minimization plans can be adopted. It will create health consciousness and promote environmental values and ethics. It provides a better understanding of the impact of eco-friendly practices on campus. Green auditing will promote financial savings through reduction of resource use. It is imperative that the college evaluate its own contributions toward a sustainable future.

Conduct Energy Audit

An Energy Audit to be conducted as and when required to further reduce its carbon footprint. The importance of reducing energy consumption cannot be overstated. The energy audit, with its specialized tools will identify wastage of energy. Such an inspection often reveals several different flaws which cause a loss of significant amounts of energy which the college will not be able to detect. These flaws often have easy and affordable solutions and provide significant savings.