



**POLICY DOCUMENT
ON
ENVIRONMENT AND ENERGY**

Submitted to



NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

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ENERGY CONSERVATION POLICY

At S.P.B Patel Engineering College, our commitment to energy conservation is reflected in the following initiatives:

ENERGY OPTIMIZATION:

We conduct regular energy audits to assess consumption patterns, identify inefficiencies, and implement targeted strategies to optimize energy usage.

EMBRACING RENEWABLES:

Exploring the integration of renewable energy sources such as solar and wind power is a key focus, aiming to reduce our dependence on conventional energy sources.

SMART HEATING AND COOLING:

Efficient management of heating and cooling systems is prioritized, with an emphasis on utilizing insulation and natural ventilation techniques to minimize energy consumption.

LIGHTING EFFICIENCY:

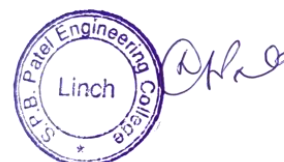
We promote the adoption of energy-efficient LED lighting and leverage natural light whenever possible to enhance illumination while reducing energy usage.

EMPLOYEE ENGAGEMENT:

We empower our staff through education and engagement initiatives, fostering a culture of energy consciousness both within the workplace and in their personal lives.

SUSTAINABLE EQUIPMENT:

Procurement practices prioritize energy-efficient equipment and appliances, encompassing computers, printers, and other electronic devices to drive down energy consumption.



GREEN INFRASTRUCTURE:

Our construction and renovation projects adhere to stringent green building standards, ensuring energy efficiency and environmental sustainability are central to our infrastructure development.

TRANSPORTATION INITIATIVES:

We advocate for sustainable transportation options such as biking, carpooling, and public transit to mitigate carbon emissions and reduce energy consumption associated with commuting.

WASTE MANAGEMENT:

We promote waste reduction and recycling practices to minimize energy usage linked to waste disposal, contributing to a more sustainable campus environment.

PERFORMANCE MONITORING:

Regular monitoring and reporting of energy usage enable us to track progress, identify areas for improvement, and continually strive toward our energy conservation goals.

Through these comprehensive measures, we demonstrate our steadfast commitment to reducing energy consumption, fostering environmental stewardship, and promoting a culture of sustainability within our institution and beyond.

WATER CONSERVATION POLICY:

EDUCATION AND AWARENESS INITIATIVES:

- S.P.B Patel Engineering College commits to fostering a culture of sustainability through regular awareness campaigns and workshops. These initiatives target faculty, staff, and students, educating them on the importance of sustainable practices, water conservation, and efficient water management techniques.
- Leveraging various mediums such as informational materials, presentations, and seminars, the college disseminates knowledge on water-saving methodologies and innovative technologies to promote responsible water usage across the campus community.

WATER USAGE ASSESSMENT AND MONITORING:

- The institution conducts comprehensive water audits to assess current consumption patterns and identify areas of high demand or potential wastage. Through the installation of water meters and monitoring devices, real-time tracking of water usage is facilitated, enabling ongoing assessment and analysis.
- Regular scrutiny of water consumption data allows for the identification of trends, anomalies, and areas necessitating improvement, thereby facilitating informed decision-making and targeted interventions to optimize water usage efficiency.

INFRASTRUCTURE MAINTENANCE AND MANAGEMENT:

- S.P.B Patel Engineering College prioritizes the installation of water-efficient fixtures in all buildings and facilities, including low-flow toilets, showers, and faucets. Prompt detection and repair of any water leaks are undertaken to mitigate water losses and ensure the integrity of the water supply system.
- Implementation of rainwater harvesting systems further enhances water conservation efforts by capturing and storing rainwater for non-potable

purposes such as toilet flushing and landscape irrigation, thereby reducing reliance on conventional water sources.

LANDSCAPE MANAGEMENT AND IRRIGATION:

- Emphasizing sustainable landscaping practices, the college opts for native or drought-resistant plant species to minimize water requirements and enhance ecological resilience.
- Adoption of efficient irrigation methods such as drip irrigation systems and automatic timers optimizes water distribution to lawns and gardens while minimizing runoff and evaporation losses. Additionally, watering schedules are adjusted to avoid peak sunlight hours, thereby maximizing water absorption and minimizing wastage.

INSTITUTIONAL GREEN POLICY

PURPOSE:

The purpose of this policy document is to provide detailed information on the policies and procedures that will be implemented by S.P.B Patel Engineering College to ensure that all its operations and activities are carried out in a manner that is both environmentally responsible and sustainable.

POLICY:

S.P.B Patel Engineering College is dedicated to preserving and safeguarding ecological systems which is located within its campus.

- The institution aims to use environmental resources wisely to fulfil the requirements and aspirations of both present and future generations.
- The college intends to incorporate environmental for social development and outreach activities.
- The college will collaborate with all stakeholders and the local community to increase awareness and promote the adoption of environmentally sound practices.
- The institution aims to reduce any negative impacts on the environment through the adoption of good environmental practices, with the help of stakeholders and the local community.
- The college is committed to enhancing its contribution to climate protection, adaptation to climate change, and the conservation of global resources.
- The institution strives to continuously improve its efforts towards climate protection, climate change adaptation, and the conservation of global resources.

- The college is committed to continuously improving the efficient use of all resources, such as energy and water, while reducing consumption and waste production.
- The institution aims to recover and recycle waste wherever possible as a part of its continuous efforts to improve the efficient use of resources.
- The college is committed to making its campus free of plastic.
- The institution regularly plants trees on its campus.
- Various clubs and committees at S.P.B Patel Engineering College promote awareness about the importance of a green campus.
- The college's clubs and committees educate people about the harmful effects of plastics.
- The institution has made it a regular practice to use paperless communication channels, such as e- mail and WhatsApp, to reduce paper waste.
- The institution encourages the use of double-sided paper.
- All Staff and students are encouraged to promote eco-friendly transportation

RESPONSIBILITIES:

a. Energy conservation:

1. Use natural light whenever possible and turn off lights when not in use.
2. Turn off power strips at the end of the workday.
3. Activate low power down features on computers and monitors to enter into low power or sleep mode when not in use.

b. Reduction of materials consumption:

1. Minimize paper usage by distributing and storing documents electronically.
2. Print and photocopy only when necessary and make use of double-sided printing when-ever possible.
3. Reduce paper consumption by opting for electronic document sharing and storage.
4. Use paper conservatively by printing and copying only what is needed and utilizing double-sided printing whenever feasible.

c. Reduce fossil fuel consumption and Air pollution:

The college encourages both staff and students to commute to campus using bicycles.

d. Minimize waste and Increase Recycling:

1. Minimize toner usage in printed documents, wherever feasible.
2. Procure office equipment with a 5-star energy rating.
3. Preferentially purchase products containing bio based content.
4. The college canteen uses steel plates, spoons, and tumblers, while paper plates are only used for snacks.
5. Separate biodegradable, non-biodegradable recyclable waste bins are placed in campus, canteen and hostel.
6. Separate biodegradable, non-biodegradable, and recyclable waste bins are placed in campus, canteen and hostel.

e. Commitment to green purchasing:

1. Buy copier and printer paper that includes a minimum of 30% recycled content from post-consumer waste.
2. Procure office supplies and furniture that have the highest percentage of recycled and non-toxic materials.

3. Whenever possible, procure products that contain bio-based content.

f. Plastic-Free Campus:

1. The college management advocates for a plastic-free campus and encourages alternative solutions.
2. Multiple clubs within the college initiate programs to increase awareness about the adverse effects of plastic.

GREEN CAMPUS INITIATIVES:

1. Regular cleanliness drives are organized to raise awareness about cleanliness and hygiene among students and staff members. The objective is to encourage active participation and promote a sense of responsibility towards cleanliness.
2. The community work conducted by NSS and Eco Club volunteers of the college will prominently feature activities related to the 'Swachh Bharat Abhiyan'.
3. Encouragement will be given to staff members for their active participation in the cleanliness drive within the college campus.
4. Organize competitions such as poster and slogan writing, essay writing, spoken word poetry, speeches, and skits related to the theme of cleanliness and hygiene.
5. Conduct rallies around the college campus on themes related to the Swachh Bharat Abhiyan to create mass awareness.
6. Proper disposal of all kinds of waste materials, including broken furniture and unusable equipment.
7. Encourage students and staff members to take an annual pledge to keep the college campus and its surroundings clean.

8. Organize workshops on waste management techniques, focusing on the three R's: Reduce, Re use, and Re cycle.
9. Ensure waste management and cleanliness of the campus, especially during college events.
10. Take steps to eliminate the use of plastic on the campus and make it plastic-free.