

Ref: Cgc/CBSA/2021/8799a

Energy Conservation Policy

Date: w.e.f. July 2021

Preamble

Energy is a vital factor in both national and organizational development. Among various costs, energy costs are highlighted as a major factor affecting both nations and organizations. The energy intensity of our country is higher as compared to that of Japan, the USA, Asia, and the world average. Energy intensity indicates the development stage of a country and efficiency of energy use. About 70% of the country's energy requirements are met through electricity generation, primarily using thermal power plants. The use of fossil fuels is acknowledged for its contribution to environmental pollution. Energy Conservation 2001 was enacted to improve energy efficiency and reduce energy intensity, emphasizing the importance of sustainable development. For sustainable development, the text stresses the need to focus on energy, the environment, and ecology. Energy management is defined as the judicious and effective use of energy without curtailing requirements, aiming to maximize profit and minimize environmental degradation. The text notes that there is a substantial potential to conserve energy through the implementation of energy management programs across all sectors of the economy. Energy conservation awareness is highlighted as crucial at all levels to engage and involve stakeholders in energy management programs. They are also seen as guides for industry in the area of energy management. An energy audit is identified as an important tool to identify energy conservation potential. It is seen as a way to translate energy conservation into reality, considering both technological and commercial aspects. The need for efficient energy management, awareness, and conservation practices is for sustainable development and environmental protection.

Our Mission:

- Our mission is to minimize energy consumption by using energy-efficient equipment and making maximum use of sunlight, natural ventilation, and energy substitution.
- Maximize the use of renewable energy.
- Create awareness about energy conservation.

This we plan to achieve:

- Manage the efficient utilization of energy resources by using cleaner and more efficient technologies.
- Train the faculties, students, and staff to make the institute the pacesetter in the field of energy conservation.
- Promote awareness related to energy conservation. Carry out regular internal energy audits to identify energy conservation opportunities.
- To ensure maximum utilization of solar energy in the campus.
- To phase out conventional light sources and replace them with LEDs. Follow steps for energy efficiency, i.e., reduce, reuse, and recycle wherever possible.
- To conduct webinars seminars and conferences on issues related to the environment and energy conservation.

Objectives of Energy Management:

- Improvements in energy efficiency will reduce energy consumption and costs.
- Minimize environmental degradation.
- To ensure conservation of energy on campus.
- To use sustainable sources of energy.

Energy Management Principles:

- Procure energy at the lowest
- Use energy at the highest possible efficiency.
- Use of low investment
- Reduce, reuse, and recycle.
- Use of renewable energy.

Types and Use of Energy:

Type of Energy	Energy Usage
Electrical Energy	Indoor and outdoor illumination, Ventilation, Air conditioning, Water pumping, Computer labs
LPG	Mess and canteen for food preparation
Solar Energy	Wheeling to the grid

Electrical Supply System: Electrical supply to Chandigarh Business School of Administration (CBSA) is through the PSPCL Grid. Electrical supply is distributed to various blocks of the campus adequately to avoid mechanical damage.

Backup Power supply: Backup supply arrangements are provided to the entire campus by the installation of a diesel generator.

Save Energy Tips for Students and Staff:

- Unplug all appliances.
- Use LEDs.
- Whenever possible, shut down the system rather than logging off.
- Turn off the unnecessary lights and use daylight instead.
- Switch off the lights and fans in classrooms, lecture halls, laboratories, and seminars halls when not in use.
- Use the air conditioner only when needed.

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Policy Document on Green Campus Environment And Waste Management

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Preamble

Chandigarh Business School of Administration (CBSA) has adopted numerous eco-friendly initiatives, contributing to the creation of an environmentally conscious campus. The emphasis on promoting a green campus reflects a commitment to environmental sustainability and the well-being of both individuals and society. CBSA has adopted initiatives that contribute to creating an eco-friendly atmosphere on campus. The college plays an active role in protecting the environment and promoting sustainable development. The concept of a green campus involves integrating environmental-friendly practices and education to promote sustainability. Faculty members, staff, and students are directed to actively prevent pollution, aligning with the college's commitment to environmental stewardship. There's a focus on avoiding water waste, indicating a commitment to water conservation efforts. The campus community is encouraged to conserve energy, likely through the adoption of energy-efficient technologies and practices. The adoption of various sustainable measures is encouraged to enhance the well-being of individuals and society at large. By integrating eco-friendly practices into its ethos, CBSA is not only fostering a sustainable environment on its campus but also instilling a sense of responsibility among faculty, staff, and students.

Introduction:

The institution is embracing the green campus concept as an opportunity to redefine its environmental culture and address the environmental, social, and economic needs of mankind. The creation of a policy document underscores the commitment to the green campus initiative, providing clarity and authenticity to the institution's efforts. With these objectives, the institution created this policy document to give the green campus initiative with greater clarity and authenticity. The document spells out the action points to make the campus environmentally friendly and carry out measures for energy conservation.

The objectives of green initiative implementation within the campus are:

- Enriching greenery inside the campus by planting.
- Sustaining a clean environment by practicing the 3 R's (reduce, reuse, and recycle).
- Involvement of students in various environmental awareness programs like Swachh Bharat Abhiyan, Swachhta Pakhwada, and Swachhta Hi Seva.
- Usage of environment-friendly products such as paper, cloth, and jute reduces the number of single-use items like plastic, coated paper cups, and straws.
- Production of biogas from food scraps and human excreta to minimize LPG fuel consumption at the hostel kitchen.
- Improvement of the energy-saving process through the installation of solar panels, solar water heaters, LED bulbs, and sensor-based systems within the campus.
- Usage of rainwater harvesting system, recharging pits and wells to meet the increasing demand for water on campus.

Action Plan:

- Conduct a green audit on the campus to identify the fulfilment of policy's objectives.
- To carry out a green campus awareness campaign and activities.
- To carry out awareness programs for environment-friendly practices.
- To carry out a campaign for awareness of energy conservation measures.
- Ensure proper waste disposal.
- To ensure maximum utilization of solar energy on campus.
- To encourage tree plantation drives.
- To ensure rainwater harvesting to recharge the groundwater.

Green Campus Initiative on the Campus:

- Installation of solar panels on the rooftop
- Tree plantation drive
- Cleanliness drive
- E-waste, solid waste, and liquid waste management
- Plastic-free campus
- Digital Library
- Use of bicycles and e-rickshaws on campus.
- Restricted entry of automobiles within the campus
- Rainwater harvesting
- Use of pedestrian pathways within the campus.
- Avoid the use of disposable plastic bottles, cups, and cutlery.

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Water Conservation and Management Policy

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Chandigarh Business School of Administration (CBSA) has adopted a water conservation and management policy to manage water sustainably to meet current and future demands on the campus. It emphasizes that efficient water storage is a viable solution for water conservation. It stresses the need for serious efforts to protect the surrounding environment and available water resources. It highlights the institution's moral responsibility as a higher learning facility to promote and propagate water conservation messages within the academic community and society. CBSA has undertaken various initiatives over the past few years to use water more efficiently on campus including awareness campaigns for the protection of streams, rivers, ponds, and land. CBSA acknowledges the significant role that students and staff play in the college's water sustainability strategy. CBSA is involved in efficient conservation, responsible consumption, restoring and recharging groundwater. It encourages all stakeholders to support policies and programs for water conservation. It's apparent that CBSA has a comprehensive water conservation and management policy in place, reflecting a commitment to sustainable water usage. The key components of the policy include:

- Recognizing efficient water storage as a viable solution to water conservation.
- Emphasizing the need for serious efforts to protect the surrounding environment and available water resources.
- Acknowledging a moral responsibility as an institution of higher learning to promote and propagate the message of water conservation within the academic community and society.
- Undertaking various initiatives over the past few years to utilize water more efficiently and effectively within the campus.
- Implementing awareness campaigns for the protection of streams, rivers, ponds, and land.
- Encouraging all stakeholders to support policies and programs for water conservation, achieving a sustainable balance between demand, management, and waste reduction through accurate accounting of water volume.
- Providing water conservation education to all stakeholders.
- Promoting research and the implementation of practices that promote efficient use of water.

Initiatives of CBSA-LANDRAN

CBSA-LANDRAN is actively working towards making its facilities more water sustainable. The mentioned initiatives, such as the use of water-efficient fixtures, wastewater treatment technologies, and rainwater harvesting, demonstrate a commitment to responsible water management.

- CBSA is incorporating water-efficient fixtures into new construction, emphasizing the importance of water conservation with 100% treatment and recycling of sewage through a Sewage Treatment Plant (STP). The treated water is reused for gardening purposes.
- Implementation of rainwater harvesting units across the campus to address future water requirements.
- Rainwater naturally filters into five ponds on the campus, preventing water scarcity. Artificial pits near ponds facilitate additional water collection.
- The college has a facility to collect water from artificial pits near ponds and filter it into the pond after treatment. This contributes to the conservation and reuse of water.

- The STP recycles sewage to produce water suitable for gardening. The clean water generated is used for watering gardens and sports grounds.
- The college is committed to improving water and water-dependent natural resources in the surrounding areas of the campus.
- The Sewage Treatment Plant operates in accordance with the rules and regulations set by the State Pollution Control Board.
- Construction of a large dug well for rainwater harvesting, recharging and contributing to water sustainability.
- Engagement in organic farming activities on a 2-acre land, cultivating a variety of vegetables and fruits.

Goals and Plans

- Emphasizes the need to maximize water usage efficiency and minimize wastage of water, promoting a culture of responsible water consumption.
- Utilizing all existing buildings for water conservation and rainwater harvesting, ensuring that established infrastructure contributes to sustainable water practices.
- Promoting investment in and maintenance of efficient water infrastructure and green infrastructure in all future development plans, highlighting the importance of incorporating sustainable water solutions in future projects.
- Encouraging the promotion of appropriate innovative water and wastewater management technologies and services, reflecting a commitment to staying abreast of technological advancements in water management.
- Providing training on water conservation measures adopted by the college to students, staff, and other stakeholders, emphasizing education as a key component of sustainable water practices.
- Ensuring awareness about the water conservation policy of the college among all stakeholders, promoting a shared understanding of the institution's commitment to water sustainability.
- Creating awareness about the cost-effectiveness of water conservation projects among students and the local community, emphasizing the economic benefits of sustainable water management.
- Focusing on improving water quality and recycling non-sewage and greywater for on-site use, considering water quality requirements for various purposes.
- Building relationships between environmental, societal leaders, and policymakers to identify obstacles and opportunities to increase the role of conservation and efficiency in making water supply systems sustainable.
- Organizing various outreach programs under the leadership of NSS and other student bodies to engage the community in water conservation efforts.
- Encouraging research, development, and implementation of water conservation techniques in response to ecological needs.
- Increasing understanding of water systems, including groundwater and its interaction with surface water, and raising awareness about the effects of climate change on water resources among students and the teaching community.
- Informing, educating, and increasing awareness regarding the importance of water to life and the need for conservation and efficient use of water.
- Promoting the protection of streams, ponds, rivers, and the public area surrounding the college, recognizing the importance of preserving natural water resources.



Chandigarh Business School of Administration

This holistic approach addresses various aspects of water conservation, from infrastructure and technology to education, outreach, and environmental protection.

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Policy for Disabled Friendly

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The national policy for persons with disabilities was formulated by the Government of India in February 2006. Chandigarh Business School of Administration (CBSA) has implemented these policies in the teaching and learning process. The policy aims to address educational rehabilitation for persons with disabilities, emphasizing equal opportunities, protection of rights, and full participation in the academic environment for individuals with disabilities.

It's commendable that CBSA recognizes people with disabilities as valuable human resources and is committed to creating an inclusive environment. This aligns with the broader goals of promoting accessibility, equal opportunities for education, and participation in various spheres of life for individuals with disabilities. It's commendable that CBSA recognizes the importance of inclusive education and is committed to providing a comprehensive teaching and learning environment. The right to education, as emphasized in various international and national frameworks, includes the principle of inclusivity, ensuring that individuals with identified disabilities or learning difficulties have equal access to educational opportunities.

The commitment of CBSA to creating an inclusive environment for both students and employees aligns with the broader goal of promoting diversity, equal access, and the full participation of all individuals in the educational process. Inclusive education not only benefits those with disabilities but also enriches the overall learning environment by fostering a sense of diversity and understanding among all members of the academic community.

By extending a helping hand towards differently-abled students and employees, CBSA is not only fulfilling its legal and ethical obligations but also contributing to the creation of a more equitable and compassionate learning and working environment. It is apparent from the outlined policies that CBSA is actively focusing on creating an inclusive and accessible environment for differently-abled students. The key points of the institution's policy include:

- Planning activities, programs, and services that are easily accessible to differently-abled students.
- Ensuring the use of proper text and pictogram signage, such as tactile paths, lights, display boards and signposts, in visible and touchable locations.
- Using signage with raised outlines and bright color contrast, including symbols for males and females in accordance with local customs and standards.
- Providing adequate support, resources, and assistive technology for learners with disabilities, both inside and outside the classroom.
- Offering assistance and additional opportunities for differently-abled students in the learning process beyond regular class hours.
- Conducting awareness programs for teaching staff, non-teaching staff, and students to educate them about accessibility issues.
- Ensuring that classrooms for differently-abled students are located on the ground floor for easy access to laboratories, libraries, etc.
- Ensuring that restrooms are barrier-free and easily accessible for all types of differently-abled persons.
- Providing chairs and tables with specific designs to accommodate the special requirements of students and employees.
- Ensuring that the design of the building, including ramps and lifts, is in accordance with the needs of disabled persons.

- Offering various provisions such as human assistance, readers, scribes, soft copies of reading material, and screen reading.

These policies reflect a holistic approach to inclusivity, covering physical accessibility, educational support, awareness, and the provision of resources to create an environment where individuals with disabilities can fully participate in academic life.