

Policy Document on Energy Conservation

DAYANAND COLLEGE, HISAR

Affiliated to Guru Jambheshwar University of Science & Technology, Hisar
Governed by DAV College Managing Committee, New Delhi
An ISO 9001:2015 & 14001: 2015 certified College

ENERGY CONSERVATION POLICY

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Objective

Dayanand College have implemented an Energy Conservation Policy to foster environmental awareness and promote students' holistic development in an educational environment of excellence. The institution is committed to reduce energy consumption, enhancing indoor air quality, and improving energy efficiency on campus in a manner that ensures safety, security, and environmental consciousness among the campus community. The policy emphasizes a proactive and progressive approach to achieve energy conservation through responsible and cost-effective practices on campus.

Policy Implementation Plan

1. **Energy-efficient lighting:** LED or CFL bulbs will be used to reduce energy consumption and replacing faulty old conventional light Bulbs/tubes with LED/CFL.
2. **Heating Ventilation and Air Conditioning system upgrades:** HVAC systems will be installed with smart thermostats to optimize heating and cooling usage.
3. **Renewable energy Sources:** Solar Panels will be installed in different stages to generate renewable energy.
4. **Energy-efficient appliances:** Old appliances will be replaced with energy-efficient models based on latest technologies that use less energy and water.
5. **Energy Efficient Computing Labs:** Computer labs with workstations and with central servers will be established to reduce power consumption.
6. **Installation of Solar Lights:** Solar lights will be installed in the college campus.
7. **Installation of Central UPS:** Central UPS are recommended for all computer labs.
8. **Signing of MoU:** MoU will be signed with some NGO or some other outside agency for purchasing of high efficiency equipments.


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9. **Annual Maintenance Contract:** AMC of the installed devices will be done for proper maintenance and working of the equipments.

10. **Education and awareness campaigns:** Raising awareness among staff and students about energy-saving practices and encouraging behaviour change. Some workshops or awareness rallies may be proposed to make students and staff aware of energy conservation in and outside the campus.

Practices and Action taken

Dayanand College has formulated a well-defined plan to conserve energy at the institutional level, implementing its policies for achieving this objective. As a part of this initiative, the institution has embraced renewable energy sources and installed a 50 kVA Solar Power Station in two stages, **5kVA** during session 2016-17 and **45kVA** during 2018-19. This step not only ensures a continuous 24x7 power supply but also contributes significantly to environmental sustainability by relying on renewable energy for a substantial portion of its power requirements.

1. The institution also prioritizes responsible energy management through an Annual Energy audit, ensuring accountability and continuous improvement.
2. To enhance energy efficiency, the college has adopted LED lighting technology, replacing most of its traditional tube lights with LED tubes and bulbs. LED lighting is known for its superior energy efficiency, consuming about 75% less electricity than incandescent tubes, and a much longer lifespan of around 25 times that of traditional incandescent tubes. In total **325 CFLs and 230 LCDs** have been installed
3. College staff and students enable power-saving features on computers and monitors to automatically enter a low-power "sleep" mode when not in use.
4. Lab attendant and students switch off the monitors and CPU when students and staff leave their workstations or tables.
5. Devices are put on power saving mode.
6. Different blocks and labs are connected to central control switching system.
7. Whenever possible, it is opted to shut down the computer rather than merely logging off to conserve energy.
8. Students and Teachers utilize natural daylight whenever feasible.
9. College avoids using decorative lighting to reduce energy consumption.


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10. Lights are turned off in conference halls, classrooms, and seminar halls when these spaces are not in use.
11. Appliances are unplugged that are not connected to power strips, such as TVs, refrigerators, ACs, tea/coffee pots, printers, and chargers, to prevent standby power consumption.
12. Furthermore, Dayanand College actively fosters energy conservation practices and eco-friendly habits among its students and staff. Regular reminders and awareness campaigns encourage individuals to turn off lights, appliances, and electronics when not in use, promoting effective reduction of electricity consumption.
13. Insignias and sign boards are installed in rooms and corridors displaying different slogans regarding energy saving methods like 'For your better tomorrow, save energy today', "Please switch off the lights when not in use" etc.
14. N computing Lab of **48 terminals** with two servers and only one centralized UPS has been installed during session 2022-23, whose power consumption is just 3kVA which is about 10 times less than traditional independent computer Lab which will consume about 30kVA.



Convener

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