

ENERGY POLICY

Preamble

Energy and life are in a symbiotic relationship. India's energy demand could double by 2040 with the population growing exponentially. Pursuant to the Environmental Policy 2020 of All India Council of Technical Education (AICTE) educational institutes are to conserve natural environment, develop sustainable solutions and control energy consumption. In addition, educational institutions have to evolve programs and policies that convert the existing environment into a negative-carbon foot print by educating students and employees on environmental issues, concerns and sustainability to respond to the emerging challenges of sustainable development in the states, nationally, specifically in the energy sector. Thus it is incumbent on the educational community to practice sustainable energy strategies and research on alternative energies that are favorable on the eco-system.

The College's energy policy is framed to of the Institution will thus be effective in organizing structured programs to promote awareness on the proper management and conservation of energy those models resource- efficient and low-carbon campuses that demonstrate practice for sustainability.

Features in the Campus:

1. Natural Lighting in Classroom
2. Dark Time
3. 100% Power Backup
4. LED Light fixtures
5. Effective peak load management
6. Repair, Re-use and frequent maintenance of equipment to ensure sustainable longevity.
7. Effective maintenances through annual maintenance.

Energy Policy Statement

The College's energy policy echoes its commitment to the conservation of energy. It sets out the institutions initiatives in conserving energy and sustainable practices in reducing carbon footprint for maintaining an eco- friendly green campus.

Objectives

- Use energy resources efficiently by switching to innovative technologies
- Optimize energy consumption and use cost-effective energy saving practices.
- Implement "Reduce, Reuse and Recycle."
- Regular maintenance by electricians
- Hand-on training to faculty, non-teaching staff, students and facilities staff to implement energy saving practices.
- Establish ties with industries and conduct a complete energy audit subject to resources

and availability.

- Promote awareness on energy conservation among all stakeholders.

2. Responsibilities and Roles

- (i) Faculty and student teachers, technical Staff
- (ii) Principal and Management

The team should carry out the action plan and ensure the energy resources are made available and utilized optimally.

3. Energy Optimization Action Plan

1. Regular monitoring and benchmarking resource use and waste generation.
2. Identifying and setting both short term and long term energy conservation targets to achieve zero-carbon campus.
3. Use of energy efficient equipment as applicable.
4. Periodic maintenance and replacement of other lights/lighting fixtures to LED.
5. When the life cycle ends of existing equipment replace it with energy efficient equipment when necessary.
6. Regular maintenance of electronic equipment and computer equipment to minimize e-Waste Reduce e-waste to minimum before moving on to replace & recycle stage.
7. Maximum use of daylight for indoor illumination and natural ventilation.
8. Install occupancy sensors for classrooms, halls, administrative offices, restrooms and sensor-based switches for street lighting and corridor lighting to optimize energy use.
9. Operating air conditioning and water coolers on optimum temperature settings.
10. Consider switching to renewable energy specifically solar energy.
11. Adopt a proactive power management mechanism.
12. Encourage action research projects and thesis on energy management, energy optimization techniques, renewable energy harvesting thereby promoting awareness towards energy challenges and cost-efficient practices.
13. Arrange and earmark appropriate training for faculty and students on energy management and energy auditing.
14. Incorporate project based learning strategies for energy conservation and energy management courses in the curriculum with internship in relevant industries.

Mechanism of Action Plan

The College must regularly assess the areas wherein energy conservation can be implemented and create effective implementation guidelines. Regular monitoring and follow-up must be carried out and documented to understand the patterns in energy usage to inform future energy saving practices.

