



DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY

GANGURU :: VIJAYAWADA – 521 139

(Approved by AICTE New Delhi, Permanently Affiliated to JNTU Kakinada)

ISO 9001:2015 Certified Institution, Accredited by NBA for ME, EEE, ECE & CSE.

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POLICY FOR ENERGY UTILIZATION AND ENVIRONMENT

DhaneKula Institute of Engineering and Technology envisions a clean and ecologically pleasant campus, where eco-friendly teaching and activities synergize to promote sustainable and environmentally friendly behavior. The institution is dedicated to realistically and comprehensively reducing energy consumption, ensuring acceptable indoor air quality, and improving energy efficiency on campus. These efforts align with the goal of fostering a safe, secure, and eco-conscious campus community.

Within its capacity, the institution has introduced innovative ideas outlined in this policy to enhance energy efficiency and sustainability on campus. Energy conservation is achieved through a proactive and progressive approach to energy-efficient, responsible, and cost-effective operations. The policy encourages the exploration of renewable energy resources to alleviate the burden on the government and seeks alternative natural resources as solutions to the energy crisis. Energy audits are identified as crucial tools for identifying potential energy conservation measures and cost reduction.

The Energy Management System policy is binding for all components of the institution, applicable to stakeholders and various activities undertaken by the institution.

DIET strive to create awareness among its students and employees and contribute to realize the Sustainable Development Goals (SDGs) set by Govt. of India by enabling its stakeholders in creating and developing innovative technologies and methods for improving the environment around us.

Objectives:

- Improvement in energy efficiency to reduce consumption and cost.
- Minimize environmental degradation.
- Monitor, conserve, and manage the energy needs of the campus with the growth in the institute's energy demands.
- Minimizing adverse impacts on environment through prevention of pollution and conservation of natural resources through continual improvement.
- Provide suitable environment awareness and training to staff, faculty, and students in practicing and promoting the culture of eco-friendly lifestyles.
- Incorporating environmental concerns in the curriculum of the respective courses and enhance the knowledge systems in the development.

- Conduct Green Audit and Energy Audit periodically by involving third part professionals' validation and implementation of the Environment Policy.

Key Policies:

- Educate and create awareness among students and staff about energy conservation measures.
- Minimize energy consumption through the use of energy-efficient equipment and maximize the use of daylight and natural ventilation.
- All staff members and students should take responsibility to reduce electricity consumption on campus.
- Switch off lights, fans, and projectors in classrooms before leaving.
- Switch off lights and fans in staffrooms before leaving.
- Limit the use of air conditioners in laboratories to academic-related activities.
- Use air conditioners in seminar halls only during events approved by the principal.
- Monitor and respond to emerging energy management issues.
- Strictly prohibit the use of electrical equipment like water heaters and iron boxes inside the campus.
- Recommend the usage of bicycles/electric vehicles by staff and students.
- Heads of departments should ensure electricity is not wasted on campus.
- Promote the usage of LED bulbs and BLDC fans to reduce energy consumption.
- E-note practice is promoted across the campus.
- Strengthening of rainwater harvesting system in the campus.
- Use of recycled wastewater for gardening.

Energy Management Structure:

- An energy management cell at the institute level, headed by Dr. K. Venkata Rami Reddy.
- Department representatives as part of the energy management cell for effective implementation of the energy management program at the departmental levels.

Renewable Energy:

- Solar energy is recognized as the cleanest and most abundant renewable energy source.
- The institute has installed solar energy, encouraging stakeholders to promote and adopt renewable energy.

Action Plan:

- Conduct external energy audits annually and internal energy audits every six months.
- Maintain the energy needs of the campus with a backup power supply system for uninterrupted energy demands.

- Establish energy-efficient utilization measures in the supply and demand systems as part of energy management.
- Implement sensor-based energy conservation.
- Replace existing conventional lighting with LED lamps in a phased manner.
- Expand the Solar PV System in a phased manner.
- Create awareness among students and staff in energy conservation and management through training programs.
- Encourage faculty members to obtain Energy Audit certification.
- Provide expertise to the industry and other organizations in the area of energy management by offering Energy Audit Services.
- Single use plastic banned in the campus
- Entire campus is enabled as “No Horn Zone”.
- Maintaining vegetation in campus with green lawns and eye pleasing gardens
- Recycling of waste water for vegetation maintenance purposes.

Conclusion:

In conclusion, Dhanekula Institute of Engineering and Technology is committed to creating a sustainable and environmentally friendly campus through its Energy Management and Environment System Policy. The institution aims to reduce energy consumption, ensure indoor air quality, and enhance energy efficiency in a manner consistent with safety and eco-conscious principles.



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PRINCIPAL

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