



Thunchath Ezhuthachan
Malayalam University

Energy Policy



Introduction

Electricity is the most important source of energy governing the day-to-day operations of the Thunchath Ezhuthachan Malayalam University. Therefore, an energy policy needs to be formulated to use and conserve energy in a cost-effective manner with high efficiency and low consumption, thereby facilitating smooth functioning of the University and making the University a sustainable energy campus.

Teaching and research activities in various teaching departments of the university and smooth functioning of the University's offices require a large amount of energy. It is therefore essential to install efficient energy equipment and implement controlled energy use standards. Energy consumption can be reduced by using efficient electronic devices that consume less energy. Similarly, the University is committed to conserve energy by adopting all possible means. Thunchath Ezhuthachan Malayalam University formulates the energy policy to address the general energy needs, regulate and monitor usage and thereby strives to complete the energy conservation mission.

The main objectives of the university's energy policy

Energy Management System

- Set up an Energy Conservation Cell with representation from all Schools to ensure that energy conservation programmes are implemented effectively with formation of Energy Management Action Plan.
- Procedures for evaluation of energy infrastructure, definition of energy agenda for the academic year, preparation of checklist for implementation of the short and long term objectives of the Energy Management Action Plan, review of the Action Plan, follow-up, monitoring etc.
- Implement short- and long-term goals and conservation practices to meet net zero-carbon campus and promote projects to achieve net zero carbon
- Implement energy conservation options including energy audit and adopt effective methods suitable for energy conservation.
- Use renewable energy sources such as grid interactive solar PV system, to make the university self-sufficient in energy resources wherever possible.
- Improve energy use by continuously monitoring the efficiency of products and services in the organization.

- Design the newly constructed buildings in the university as green buildings
- Plant trees on campus
- Reduce the emissions of carbon dioxide and other greenhouse gases, thereby reducing the carbon footprint.
- Participate in climate action, the 13th of the Sustainable Development Goals, by turning it into a sustainable energy campus
- Setting up of biogas plants to generate energy from organic waste as part of the University's waste management.
- Promote public transportation, cycling and walking.
- Promote carpooling and use of electric or hybrid vehicles
- Use natural light effectively for indoor lighting
- Keep energy usage data on a monthly basis
- Inform all employees and students of energy use details and objectives and analyze energy conservation progress.

Improving energy efficiency

- Track and analyze of energy efficiency
- Use of equipment such as energy-efficient refrigerators and air conditioners with star rating
- Promote the use of energy-efficient light bulbs
- Replace the normal ceiling fans with BLDC ceiling fans.
- Use of TFT computer monitors.

Training and Awareness

- Conduct energy conservation awareness programmes for employees, students and society
- Organize workshops, seminars and poster presentations in the areas of renewable energy, renewable energy sources, global warming caused by conventional energy generation, climate change and environmental protection.
- Conduct training on Energy management and energy auditing for employees and students

- Encourage students to work on undergraduate and postgraduate projects related to energy conservation, energy optimization technologies, and energy generation from renewable sources to increase their knowledge of energy generation and use.
- Encourage faculty members to receive energy audit certification.
- Provide information and training opportunities on energy conservation activities.

Avoiding wastage of energy

- Improve technology and reduce abnormal and unnecessary energy consumption.
- Use occupancy sensors in classrooms, offices, and toilets, sensor-based switches for street lights and corridor lights.
- Adjust the optimal temperature for air conditioners and water coolers.
- Make use of natural ventilation
- Use timer switches for street light control
- Discourage the use of air conditioners
- Windows and doors should be closed while the air conditioning system is working.
- Upgrade or upgrade all electrical lamps and fans on campuses with high efficiency electric lamps (LEDs), fans (BLDCCs), etc.
- Maintenance and replacement of additional lights/lighting fixtures using LEDs
- Instruct all teachers, non-teaching staff and students of the University to turn off personal computers, lights, fans, etc. and equipment in classrooms, labs and libraries when not in use.
- Activate power management features on your computer and monitor
- Turn off the computer monitor when it is not in use