

MAR THEOPHILUS TRAINING COLLEGE

Mar Ivanios Vidya Nagar, Nalanchira, Thiruvananthapuram- 695015

AFFILIATED TO UNIVERSITY OF KERALA, RECOGNIZED BY NCTE

RE-ACCREDITED BY NAAC WITH 'GRADE A'

Institutional Policy on Energy Management

PREAMBLE

Energy Conservation Act, 2001, was enacted to improve energy efficiency and reduce energy intensity of the institution for sustainable development. Providing focus on energy, environment and ecology is the necessity of the present era. Energy plays an important role in the development of the nation as well as an institution. Energy management in our institution is moderate and judicious. We attempt to use energy in a manner without sacrificing the essential requirements of the stake holders. Our energy management policy revolves around awareness on conservation by all stakeholders. The policy not only include the generation of awareness but also practical step for its conservation. The energy policy of the campus now focuses on the future use of non-conventional energy resources through enhanced technological inputs and support by larger public agencies.

The major objectives of energy management in general are:

- To reduce energy consumption by improving energy efficiency
- To employ good housekeeping practices used to decrease wastages
- To reduce Environmental degradation to the maximum
- To uphold Green campus Clean campus slogan

Energy management principles adapted at the industrial level

- Optimal use of electric energy
- Promotion of the use of non-conventional energy
- Popularization of Sustainable Development Goals through various in-house activities
- Promotion of 7R's principles such as Remove, Reduce, Re-source, Re-use, Re-cycle, Recover and Return

Energy management co-ordination structure

There is an energy management committee in our institution chaired by Dr.K.Y.Benedict (Principal). The committee includes Fr. Thomas Kayyalakkal (Bursar), representatives of staff, students, and administration. This cell streamlines the effective implementation of Energy management programme at the college.



The institute's energy policy is formulated to promote: -

1. Sustainable Energy conservation and management
2. Implementation of Green Energy (Non-conventional energy)

Policy

- Mar Theophilus Training College is aware of the need for energy conservation and management.
- Stake holders of the college will be encouraged to support and participate in energy conservation and management initiative at the local and national level.
- The necessary energy conservation measures and facilities are practiced and implemented by our constituent components.
- During construction and renovation process members of the energy management committee have to monitor and make sure that such activities strictly adhere to the sustainable development norms.
- Switching over to the non-conventional energy sources (mainly solar energy along with KSEB) is to be adopted as soon as possible

Committee members

- ❖ Dr. K.Y Benedict (Principal)
- ❖ Mr. Thomas Kayyalakkal (Bursar)
- ❖ Dr. Joju John (Assistant Professor in Education)
- ❖ Mr. Binu K.Joy (Head Accountant)
- ❖ Mrs. Shiney Jacob (Assistant Professor in Natural Science)
- ❖ Ms. Sheryl Varghese (Student Representative)

Energy usage at Mar Theophilus Training college

- Electricity
 - ✓ Indoor and outdoor lighting
 - ✓ Water pumping
 - ✓ Computer lab and reprographic centre
 - ✓ Biometric system
 - ✓ LMS system
 - ✓ Induction cooker
 - ✓ Maintenance of fish tanks and Pisciculture
- LPG Gas cylinder for canteen and mess
- Switching over to solar based power system through the SOURA project of KSEB (Non-Conventional Energy)

Energy Sources at Mar Theophilus Training college

- Power supply from KSEB Ltd received through Outdoor transformer
- Biogas plant



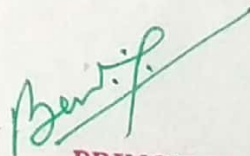
Power back-up:

- Stand-by supply: One Petrol Generator sets of capacity 65KWA are provided in the college campus.
- Additional power back UPS 5000UX distributed around the campus.
- Computing facilities are provided with Power back-up through UPS.

Thumb Rules:

- Energy inefficient equipment's will be replaced whenever as and when need arises.
- The class rooms are sufficiently ventilated to ensure the maximum flow of natural air and light so that energy consumption for lighting are minimised.
- Agreement with KSEB on SOURA plan has completed and Solar energy system will be implemented to the campus very soon
- The computers, printers, monitors, lights, class lights, fans and copier machines etc will be switched off or kept in sleep mode as and when not in use. Under normal circumstances all computers are turned off.
- In future college will go for building automation to turn off lights in unoccupied areas using sophisticated control mechanism using AI and IoT
- The college will progress towards the 'energy zero waste building' concept when new construction occurs with the RUSA or CSR funds in future.
- Smart toilets that functions on sensor-based use of power sources and IoT are on the anvil (for future infrastructure development)




PRINCIPAL
Mar Theophilus Training College
Nalanchira, Thiruvananthapuram- 695015