

## ENERGY MANAGEMENT CELL

The energy management cell started functioning at our college in the academic year 2020-2021. Energy is more than necessity in our lives, as it stretches out in different forms. Keeping this in mind; the cell took an initiative for proper management and the conservation of energy. The aim of the cell is to create awareness among the members of the college and general public, so as to equip them for efficient management of the all forms of energy. Besides, the cell is keen to spread this message to the society by conducting awareness programmes to public. Looking forward to more workshops and activities associated with energy conservation, the Energy Management cell of M.G.N. College of Education continues its journey with much zeal and vigour.

### Objectives of Energy Management Cell

- Minimise Energy consumption by use of energy efficient equipment's and maximum use of day light, natural ventilation and Energy substitution.
- Maximum use of renewable Energy.
- Create Awareness about Energy conservation.
- Improvement in Energy efficiency to reduce Energy consumption and cost.
- Eliminate wastage by use of good housekeeping practices.
- Minimize Environmental degradation.

### Energy Management Structure:

There is energy management cell at Institute Level headed by Dr Seema Rani. Each cell/club representatives are part of Energy management cell of effective implementation of Energy management program at institute levels.

### Types and use of Energy

S.No.	Types of energy	Energy Usage:-
1	Electrical energy	Indoor and outdoor illumination Ventilation Air conditioning Water pumping Computers and peripherals Laboratory Equipment
2	LPG	Canteen and kitchen for food preparation

## **Energy Management Principles**

Various Energy management principles are:

- Procure Energy at lowest cost.
- Use Energy at highest possible efficiency.
- Use low investment technologies.
- Reduce, reuse and recycle.
- Use of renewable Energy

## **Electrical Supply System:**

Electrical supply to campus is through PSPCL supply from MSEDCL overhead line 500K VA. Electrical supply is distributed to various sections of campus through under cable network protected adequately to avoid mechanical damage.

## **Backup Power Supply:**

Backup supply arrangement is provided to 100% campus by installation of 63 K.V.A DG set with AMF facility.

## **Reactive Power Management:**

Reactive power management is carried out using detuned RTPFC panel at main supply provided by PSPCL.

## **Energy Management Action Plan:**

### **Improvement in Energy Efficiency:**

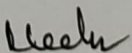
- Use of star labelled Equipment's such as Refrigerator, Air conditioners.
- Replacement of Conventional T8 36/40- watt florescent tubes by 18W LED lamps.
- Use of TFT computer monitors.

### **Elimination of Energy wastages:**

- Maximum use of natural day light for indoor illumination.
- Use of natural ventilation.
- Good Housekeeping practices.
- Fine tuning of temperature setting of Air conditioners and water coolers.

### **Training and awareness programmes:**

- Conducting awareness program for staff, students and society.
- Organise seminar and poster presentation in the area of renewable Energy and Environmental Protection.
- Encourage students to celebrate world energy conservation day by 14<sup>th</sup> Dec.

  
Acting Principal  
M.G.N. College of Education  
Jalandhar

