



K. K. Wagh Education Society's

**K. K. Wagh Arts, Commerce, Science & Computer Science College, Kakasaheb Nagar**

At. Post. Kakasaheb Nagar, Tal. Niphad, Dist. Nashik – 422308.

(Affiliated to Savitribai Phule Pune University)

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## Energy Policy

### Preamble

Energy plays important role in the development of nation as well organization. Energy requirement is linked with GDP development. Out of various costs energy cost is one of major cost .Energy intensity is energy requirement per GDP. Energy intensity of our country is 3.7 times of Japan. 1.55 times of USA, 1.47 times of Asia and 1.5 times of world average energy intensity indicates development stage of country and efficiency of energy use our country is not energy secure country and energy requirement is met through import of coal and petroleum product. Around 70% of countries energy requirement is met through electricity generation using thermal power plants .Use of fossil fuels leads to environmental pollution. Energy conservation 2001 was enacted to improve energy efficiency and reduce energy intensity .For sustainable development it is necessary to provide focus on energy environment and ecology. Energy management is judicious and effective use of energy without curtailing requirement to maximize profit and minimize environmental degradation .There is substantial potential to conserve energy by implementation of energy management program in all sectors of economy. Energy conservation awareness at all level is important to engage. Involve all stake holders in energy management program. Senior colleges can play significant role in creating awareness about energy management program among students. Energy audit is one of the important tool to identify energy conservation potential. Energy audit would give positive orientation about energy cost reduction. Energy audit is translation of energy conservation into realities taking into consideration techno commercial aspects.

### Objectives of Energy Management:

- Improvement in energy efficiency to reduce energy consumption and cost.
- Eliminate wastages by use of good housekeeping practices.
- Minimize environmental degradation.

### 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.
- Fuel substitution.
- Use of renewable Energy.

### Energy Management structure:

There is energy management cell at institute level headed Miss R. D. Jadhav. Each department representatives are part of energy management cell for effective implementation or energy management program at department levels.

**Energy management Action Plan:****Improvement in Energy efficiency:**

- Use of star labeled equipment's such as refrigerator, air conditioners.
- Replacement of conventional T8 36/40-watt florescent lamps by T8 18W LED tube 20 watt library & seminar hall.
- Replacement of 150 HPSY street light fixtures by 72 W LED Street Light Fixtures.
- Use of TFT computer monitors.
- Replacement of conventional ceiling fans by BLDC ceiling Fans.

**Elimination of Energy wastages:**

- Maximum use of natural day light for indoor illumination.
- Use of natural ventilation.
- Good housekeeping practices.

**Energy Cost Optimization:**

- Maximum demand optimization by adequate reactive power management.
- PF incentive by maintenance of power factor above 0.902
- Use of detuned RTPFC to eliminate risk of resonance.
- TOD tariff benefits by operating flexible load during off peak period.
- Use of dual trigger RTPFC panel to optimize DG fuel consumption

**Training and Awareness Programmes:**

- Conducting awareness program for staff, students and society.
- Active involvement of UG /PG students in awareness program in schools.
- Conduct competence enhancement program for industry professional in the area of energy management.

**This we plan to achieve:**

- Manage efficiently utilization of energy resources by use of cleaner and more efficient technologies.
- Train faculties, students, Industry professionals to make institute the pace setter in the area of energy conservation.
- Promote awareness related with energy conservation among various sections of society
- Enrich our experience on energy conservation by exchange of ideas with other organizations
- Encourage faculty members to obtain certification as a certified energy auditors and managers.
- Carry out regular internal energy audit to identify energy conservation opportunities.
- Provide expertise to industry and other organizations in the area of energy management by offering energy audit services.



**Principal**

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