



POLICY ON ENERGY AUDIT REPORT

Introduction:

Energy is a critical input for economic development in any country, particularly in developing nations where growing energy needs demand substantial investments.

In India, we are increasingly focusing on a cleaner energy matrix, which involves not only boosting sustainable power generation but also using energy more efficiently for economic purposes. Every step towards energy conservation is a move in the right direction.

Our initiatives are aimed at finding ways to save energy to reduce costs and prevent the depletion of energy resources. As societal demand for energy continues to rise, energy conservation becomes essential.

An Energy Audit serves as a tool to assess and analyze energy consumption patterns based on factors like time, output, and floor area. The goal of these audits is to implement various energy-saving measures to achieve cost savings and evaluate the effectiveness of these measures. By setting specific energy-saving targets for individual cost centers, audits help identify areas where cost savings can be achieved and reduce energy consumption per unit of product output or lower operating costs.

An old incandescent bulb consumes roughly 60W to 100W, while a more energy-efficient LED consumes less than 10W. Energy auditing addresses energy conservation and methods to cut consumption to lessen environmental impact. Thus, it is vital for any environmentally conscious institution to scrutinize its energy usage practices.

Objective:

The objectives of an energy audit include:

- Assess and pinpoint areas where energy consumption can be reduced.
- Analyze the cost-effectiveness of implementing energy-saving measures.
- Establish specific goals for reducing energy usage for individual departments or processes.
- Recommend improvements to enhance overall energy efficiency and reduce operating costs.


PRINCIPAL

Keshav Memorial Institute of Commerce & Sciences,
Narayanaguda, Hyderabad-500 029
College Code No: 1110/318



Methodology

The energy audit process begins with meticulous planning, defining objectives, and assembling pertinent data. Through on-site inspections and data analysis, opportunities for energy conservation are pinpointed. Recommendations are tailored to maximize efficiency while considering cost-effectiveness. Prioritized solutions are proposed, factoring in potential savings and return on investment. Implementation involves collaboration with stakeholders to execute identified measures. Continuous monitoring ensures that expected energy savings are realized and adjustments are made as needed. Finally, a comprehensive report is compiled, detailing findings and outlining actionable steps for enhancing energy efficiency.

Initiatives taken by the college to conserve the energy

1. Implementation of LED bulbs throughout the building has replaced traditional tube lights, enhancing energy efficiency.
2. The transition from CRT to LED monitor screens in computer labs has significantly reduced power consumption.
3. Student Energy Monitors are appointed to ensure timely shutdown of electrical appliances daily.
4. Well-ventilated classrooms capitalize on natural airflow, reducing reliance on artificial lighting and fans.
5. Computer lab users are instructed to power down systems and switch off monitors before leaving.
6. Notices reminding users to switch off electrical appliances are posted in labs for student awareness.
7. Staff are encouraged to unplug idle electrical appliances, particularly in the nutrition lab, to conserve energy.
8. Removal of outdated air conditioners from computer labs has contributed to energy savings, alongside regular cleaning efforts.
9. Student engagement in energy conservation competitions fosters innovative ideas and awareness.
10. Commemoration of Energy Conservation Day involves student performances and demonstrations to promote sustainable practices.

V. Senthil
PRINCIPAL



KESHAV MEMORIAL INSTITUTE OF COMMERCE & SCIENCES

(Affiliated to Osmania University)

A Unit of Keshav Memorial Educational Society

3-5-1026, Narayanaguda, Hyderabad - 500029 Ph : 040 2322 4651, 8331029974

E-mail : principal.kmics@gmail.com

Website : www.kmics.ac.in

ESTD. 1945

11. Encouraging the use of stairs over lifts not only promotes health but also reduces power consumption.

Conclusion

- Explore new technology upgrades like motion-sensor lighting.
- Expand awareness programs to encourage sustainable habits among staff and students.
- Look into more building retrofits and energy-efficient designs.
- Partner with utilities for incentives and resources.
- Continue regular audits to track progress and find more ways to save energy.

These initiatives will be implemented at KMICS's ongoing commitment to energy conservation and sustainability, furthering our efforts to reduce energy consumption and environmental impact.

The following Green Committee was constituted for keeping the campus in 'No Plastic Zone & No Pollution Zone'

S. No	Name	Designation
1	Mrs.V.Shanthi	Principal
2	Dr.Kiran Kumar	Assistant Professor
3	Mr.Bhaskar Yogendra	Assistant Professor
4	Mr.Sanjay Raj	Assistant Professor
5	Mr. Sai Kiran	Assistant Professor
6	Mr.J.Manohar	Assistant Professor
7	Mr.Shiva Reddy	Assistant Professor
8	Mrs.V.Neeraja	Assistant Professor
9	Mrs.Nirupama	Assistant Professor


PRINCIPAL

Keshav Memorial Institute of Commerce & Sciences
Narayanaguda, Hyderabad-500 029
College Code No. 1110/318



Environmental and Energy Usage Policy

1. Introduction: Keshav Memorial Institute of Commerce and Sciences (KMICS) recognizes the critical importance of environmental sustainability and responsible energy usage in today's world. As a responsible educational institution, KMICS is committed to promoting a culture of environmental stewardship, both within its campus and beyond. This policy document outlines KMICS's approach to environmental and energy management, highlighting its initiatives, strategies, and commitments in this regard.

Background Information: In alignment with institutional values and social responsibilities, Keshav Memorial Institute of Commerce and Sciences (KMICS) is dedicated to promoting gender equity, addressing climate change, and championing environmental sustainability. Recognizing the importance of these issues, KMICS implements a range of environmentally friendly practices, including energy conservation, rainwater harvesting, waste recycling, and carbon neutrality initiatives. The institution also prioritizes accessibility for differently-abled individuals and demonstrates a commitment to human values and professional ethics in all its activities.

Global Context: In the face of global challenges such as climate change and environmental degradation, institutions worldwide are increasingly prioritizing sustainability and energy efficiency. From implementing renewable energy solutions to adopting green practices in daily operations, organizations are recognizing the urgent need to minimize their environmental impact and contribute to a sustainable future. KMICS is committed to aligning with global trends and best practices in environmental stewardship and energy management.

2. Objectives: The primary objectives of this policy are:

- To minimize the environmental footprint of KMICS's operations by reducing resource consumption and waste generation.
- To promote energy efficiency and the use of renewable energy sources to reduce greenhouse gas emissions.
- To raise awareness among students, faculty, and staff about the importance of environmental conservation and sustainable energy practices.
- To comply with all relevant environmental laws, regulations, and standards.

3. Key Principles: In pursuit of these objectives, KMICS is committed to the following key principles:

- **Conservation:** Striving to conserve natural resources such as water, energy, and materials by implementing efficient usage practices and promoting recycling and reuse initiatives.



KESHAV MEMORIAL INSTITUTE OF COMMERCE & SCIENCES

(Affiliated to Osmania University)

A Unit of Keshav Memorial Educational Society

3-5-1026, Narayanaguda, Hyderabad - 500029 Ph : 040 2322 4651, 8331029974

E-mail : principal.kmics@gmail.com

Website : www.kmics.ac.in

ESTD. 1945

- **Energy Efficiency:** Prioritizing energy-efficient technologies and practices in its facilities and operations to minimize energy consumption and associated greenhouse gas emissions.
- **Renewable Energy:** Exploring opportunities to integrate renewable energy sources, such as solar and wind power, into its operations to reduce reliance on fossil fuels and promote clean energy generation.
- **Waste Reduction:** Implementing waste reduction strategies, including waste segregation, recycling programs, and proper disposal practices, to minimize the generation of solid waste and promote a circular economy.
- **Environmental Education:** Incorporating environmental education and sustainability principles into its curriculum and extracurricular activities to foster a culture of environmental stewardship among students, faculty, and staff.
- **Continuous Improvement:** Regularly reviewing and assessing its environmental and energy performance to identify opportunities for improvement and implement measures to achieve its sustainability goals.

4. Responsibilities:

- **Management:** Responsible for setting environmental and energy usage goals, allocating resources to support sustainability initiatives, and ensuring compliance with applicable laws and regulations.
- **Faculty and Staff:** Responsible for implementing and adhering to the environmental and energy usage policies and procedures established by KMICS, including practicing resource conservation and promoting sustainability awareness.
- **Students:** Encouraged to actively participate in environmental conservation efforts and adopt sustainable practices both on and off-campus.

5. Implementation: The implementation of this policy will be overseen by the Environmental and Energy Management Committee, responsible for:

- Developing and implementing action plans to achieve environmental and energy usage goals.
- Monitoring and evaluating KMICS's environmental and energy performance.
- Providing guidance and support to departments and individuals to promote sustainable practices.
- Conducting regular training and awareness programs on environmental conservation and energy efficiency.


PRINCIPAL

Keshav Memorial Institute of Commerce & Sciences,
Narayanaguda, Hyderabad-500 029
College Code No: 1110/318



6. Review and Revision: This policy will be reviewed periodically to ensure its effectiveness and relevance in achieving KMICS's sustainability objectives. Any necessary revisions or updates will be made in consultation with relevant stakeholders and approved by the management.

7. Conclusion: By adopting this Environmental and Energy Usage Policy, KMICS reaffirms its commitment to environmental sustainability and responsible energy usage. Through collective effort and collaboration, we can contribute to a greener and more sustainable future for our campus and community.


Additional Information:

Quality Audits and Initiatives: KMICS conducts regular quality audits on environment and energy to ensure compliance with established standards and identify areas for improvement. These audits include:

- 1. Green Audit/Environment Audit:** Assessing environmental performance and compliance with environmental regulations.
- 2. Energy Audit:** Evaluating energy consumption patterns and identifying opportunities for energy efficiency improvements.
- 3. Clean and Green Campus Initiatives:** Implementing initiatives to enhance the environmental sustainability of campus operations.
- 4. Beyond the Campus Environmental Promotion and Sustainability Activities:** Engaging in outreach programs and community initiatives to promote environmental awareness and sustainability beyond the campus boundaries.

Certificates and External Audit Reports: KMICS maintains certificates from external audit agencies, including reports on initiatives such as Swachh Bharat and Earth Day celebrations, as part of its commitment to transparency and accountability in environmental management.

Conclusion: In conclusion, KMICS remains steadfast in its commitment to environmental stewardship and energy conservation. By adhering to global best practices, conducting regular audits, and engaging in sustainability initiatives both on and off-campus, KMICS strives to be a leader in promoting environmental sustainability and social responsibility. The effort is to contribute to a greener, more sustainable future for generations to come.


PRINCIPAL
Keshav Memorial Institute of Commerce & Sciences,
Narayanaguda, Hyderabad-500 029
College Code No: 1110/318