

ENERGY POLICY



AMAR SHAHEED KANCHAN SINGH AUTONOMOUS P.G College

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0		Issued for Implementation
Rev.	Date	Description
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Introduction

Amar Shaheed Kanchan Singh Autonomous P.G College, Shivpuri Fatehpur is committed to fostering an environment of academic excellence while maintaining a sustainable and eco-friendly campus. Recognizing the critical role of energy management in achieving this goal, the college has developed this comprehensive energy policy.

Importance of Energy Efficiency and Sustainability

Energy efficiency and sustainability are pivotal in addressing global environmental challenges such as climate change, resource depletion, and pollution. By adopting energy-efficient practices and integrating renewable energy sources, the college aims to reduce its carbon footprint and lead by example in the community.

Goals of the Energy Policy

The primary goals of this policy are to:

- Reduce energy consumption across all campus operations.
- Enhance energy efficiency through technological upgrades and behavioral changes.
- Promote the use of renewable energy sources.
- Foster a culture of sustainability among students, faculty, and staff.

Policy Objectives

Reduce Energy Consumption

- Implement measures to minimize energy waste.
- Encourage responsible energy use among all members of the college community.

Enhance Energy Efficiency

- Upgrade existing infrastructure to more energy-efficient technologies.
- Integrate energy-efficient practices in daily operations.

Promote Renewable Energy Sources

- Increase the use of renewable energy within the campus.
- Explore and implement innovative renewable energy projects.

Educate and Engage the College Community

- Raise awareness about energy conservation and sustainability.
- Provide training and resources to support energy-saving practices.

Energy Management Structure

Formation of an Energy Management Committee

An Energy Management Committee (EMC) will be established to oversee the implementation of this policy. The committee will comprise:

- An Energy Manager (Chair)
- Facility Managers
- Representatives from the faculty
- Representatives from the student body
- External energy consultants (if required)

Roles and Responsibilities

- Energy Manager: Lead the EMC, coordinate energy audits, and oversee policy implementation.
- Facility Managers: Implement energy-saving measures in their respective areas.
- Faculty and Student Representatives: Promote energy conservation initiatives and gather feedback.
- External Consultants: Provide expert advice and support for complex energy projects.

Reporting and Accountability

The EMC will meet quarterly to review progress, address challenges, and update the policy as needed. Annual reports will be prepared to document achievements and identify areas for improvement.

Energy Audit and Baseline Assessment

Conducting an Initial Energy Audit

A comprehensive energy audit will be conducted to assess the current energy consumption patterns and identify opportunities for improvement. The audit will cover:

- Building energy usage
- Lighting systems
- Heating, ventilation, and air conditioning (HVAC) systems
- Laboratory and office equipment
- Establishing a Baseline for Energy Consumption
- The results of the initial energy audit will be used to establish a baseline for energy consumption. This baseline will serve as a reference point for measuring the effectiveness of implemented energy-saving measures.

Regular Monitoring and Reporting

- Continuous monitoring of energy consumption will be conducted using energy management software and smart meters. Monthly reports will be generated to track progress and identify any deviations from expected outcomes.

Energy Efficiency Measures

- Building and Infrastructure Improvements
- Insulation and Weatherproofing: Improve insulation in buildings to reduce heating and cooling demands.
- Efficient Lighting Systems: Replace incandescent bulbs with LED lighting and install motion sensors and timers to minimize unnecessary usage.
- HVAC Systems: Upgrade to energy-efficient HVAC systems and implement regular maintenance schedules.
- Windows and Doors: Install energy-efficient windows and doors to reduce heat loss and gain.

Equipment and Appliance Upgrades

- Energy-Efficient Appliances: Replace outdated appliances with energy-efficient models.

- Energy-Efficient Computing: Promote the use of energy-efficient computers and enable power-saving settings.

Renewable Energy Initiatives

Solar Energy: Solar Panels: Install solar panels on rooftops and other suitable areas to generate electricity.

Biomass : Set up biogas plants to utilize organic waste from the campus for energy production.

Behavioral Change and Awareness Programs

Energy Conservation Campaigns

- Launch awareness campaigns to educate the college community about the importance of energy conservation.
- Use posters, digital displays, and social media to disseminate information and tips on saving energy.

Training and Workshops

- Conduct training sessions and workshops on energy-saving techniques and the use of energy-efficient equipment.
- Include energy conservation topics in the curriculum to foster a culture of sustainability among students.

Incentive Programs

- Develop incentive programs to encourage energy-saving behavior among students, faculty, and staff.
- Recognize and reward departments and individuals who demonstrate significant energy savings.

Implementation Plan

Short-Term Goals (1-3 Year)

- Conduct the initial energy audit and establish a baseline.
- Form the Energy Management Committee and define roles and responsibilities.
- Launch initial awareness campaigns and training sessions.
- Begin implementation of easy-to-achieve energy-saving measures (e.g., lighting upgrades, smart power strips).
- Complete major infrastructure upgrades (e.g., insulation, HVAC systems).
- Implement renewable energy projects (e.g., solar panels, solar water heating).
- Expand behavioral change programs and incentive initiatives.

Long-Term Goals (3-5 Years)

- Achieve significant reductions in energy consumption and carbon footprint.
- Continuously monitor and improve energy efficiency measures.
- Explore and implement additional renewable energy sources as technology advances.

Monitoring and Evaluation

Performance Indicators

- Reduction in overall energy consumption.

- Decrease in energy costs.
- Increase in the use of renewable energy (percentage of total energy consumption).
- Participation rates in energy conservation programs and initiatives.

Regular Review and Updates

- The EMC will review the energy policy annually and make necessary updates based on performance data and emerging technologies.
- Feedback from the college community will be solicited and incorporated into the policy review process.

Conclusion

The Energy Policy for Amar Shaheed Kanchan Singh Autonomous P.G College, Shivpuri Fatehpur is a comprehensive plan to reduce energy consumption, enhance energy efficiency, and promote renewable energy sources. By implementing this policy, the college commits to creating a sustainable and environmentally responsible campus. Through continuous improvement and community engagement, the college aims to set a benchmark for energy management in educational institutions.

Approved by



Principal