

ENERGY POLICY



University of Rajasthan

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INTRODUCTION

University of Rajasthan is committed to promotion of excellence in education and research inculcating independent critical thought and scientific temper. University of Rajasthan is transforming lives and save the society through pursuit of excellence in teaching, learning and lifelong learning from more than last 75 years.

The energy strategy at the University of Rajasthan was developed to address the overall energy demands of its campus, including its constituent colleges, while also monitoring and managing consumption levels. A well-defined plan is essential to ensure the efficient and smooth functioning of university with minimal energy usage. To achieve cost-effective operations, it is crucial to implement effective energy management tools and establish guidelines for controlled energy usage.

PURPOSE

The purpose of this policy is to promote energy conservation and sustainability on the university campus, while fostering a culture of responsibility and raising awareness among students, teachers, and staff. The energy policy aims not only to meet energy needs but also to exceed energy efficiency standards by integrating sustainable practices into all aspects of campus life, including academic programs, research activities, daily operations, and infrastructure development. Additionally, it will help create a learning and working environment where energy sustainability is a shared responsibility, enabling the entire campus community to actively contribute to shaping a greener future. Effective energy policies need to balance economic, social and environmental priorities.

OBJECTIVES

The following criteria are the objectives of the policy:

1. Encourage the use of renewable energy sources, such as solar energy, to reduce dependency on non-renewable energy.
2. To execute energy-efficient technologies and practices across all university operations, including the installation of energy-saving equipment and fixtures.
3. Set goals to minimize energy usage through efficient resource management and conservation practices.
4. Install biogas plants to convert organic wastes into biogas, a renewable alternative energy sources.

5. Establish a comprehensive energy monitoring system to regularly track and report energy consumption, ensuring continuous improvements and accountability.
6. Promote awareness and educate students, both teaching and non-teaching staff on energy-saving behaviors, encouraging their active participation in reducing energy wastage.
7. Promote sustainable transportation such as use of electric vehicles, bicycles, and walking as alternatives to fossil fuel-based transportation within the campus to minimize the carbon footprint.
8. Ensure all buildings, including classrooms and offices, are optimized for energy efficiency, including the installation of automated systems such as motion sensors for lighting systems.
9. Encouraging personal to travel on foot or bicycles within campus to reduce carbon footprints.
10. Encourage sustainable campus development such as future campus infrastructure and renovations prioritizing energy efficiency.
11. Support research and innovation in energy management technologies and practices to drive ensure continuous improvement.

ORGANIZATION AND MANAGEMENT

University of Rajasthan shall constitute a committee for effective implementation of policy.

The responsibilities and organizational arrangements for this Policy lie with a variety of personnel of the Advisory Board.

Advisory Board

- i. Vice-Chancellor- Chairperson
- ii. Coordinator, IQAC- Member Secretary
- iii. Deans (All faculties)
- iv. University Executive Engineer
- v. Two outside experts (to be nominated by the Vice-Chancellor)

The Coordinator, IQAC- Member Secretary shall be accountable for communicating the progress of the implementation of the Energy Policy and maintain written minutes of such meeting and send copy to each committee member.

Frequency of Meeting: The committee shall meet at-least once a year or as and when required.

Quorum: Two-third members constitute the quorum. If there is no quorum for the meeting, then the meeting shall stand adjourned to the declaration of next date.

Term: The tenure of the members shall be three years.

Functions of Advisory Board:

The goal of the Energy Policy Committee is to manage energy in such a systematic way to minimize its impact on the environment.

- Review all energy policies and procedures established.
- To review sustainable energy sources like solar panels, solar lights, LED lights, sensor based lights etc.
- To review energy-saving machinery and equipment in the campus.
- Allocation of institutional resources for energy management.
- Analyze the progress of energy saving and share with all staff and students.
- Conduct periodic energy conservation trainings and audits.

ACTION PLAN AND MANAGEMENT PRACTICES

The University of Rajasthan envisions maximizing energy efficiency and minimizing energy wastage, and is undertaking the following initiatives to implement its energy policy:

1. Incorporate renewable energy into projects:
 - a) Maximizing the use of Solar PV system,
 - b) Maximize roadside solar street light,
 - c) Use of solar water heaters etc.
2. Purchase of Energy Star-compliant equipment:
 - a) Use of LED lights, CFL, BLDC Fans etc.
 - b) 4/5-star rated inverter-based air conditioners, refrigerators, and other appliances.
3. Schedule classes, meetings and other campus activities to minimize energy usage.
4. Ensure the glass used in windows and doors remains transparent to maximize use of natural light.
5. Use of electric vehicles for transporting people and materials in the campus.
6. Replace existing inefficient lighting with energy-saving fixtures, lamps and bulbs etc.
7. Install motion detector sensors and photo electric switches to control lighting, wherever feasible.

8. Thermostat control of electric equipments being used for energy conservation.
9. Conducting regular internal energy audits to identify and implement energy conservation opportunities, promoting a clean environment and sustainable development.

Energy conservation involves the practice of reducing energy usage. Encouraging students, as well as teaching and non-teaching staff, to incorporate the following habits into their regular practices for energy conservation:

- Promotion of awareness related to energy conservation among various sections of society through research, seminars, professional development programs, value added courses and extension activities.
- Turning off lights when you leave a room (classroom, office etc.).
- Unplugging appliances, when they're not in use.
- Walking instead of driving.

Solar Streetlight and solar panel installed in University campus



Slogan to raise awareness among the staff and students:

“Think. Act. Save.”

“Save energy today, for a better tomorrow”

“Save Energy, Save Money, Save Nation, Save the planet”

“Save fuel, secure your future”

“Save power and carry on”

“Reduce, Reuse and Recycle”

"Don't drive if it's a short ride, Walk around in the campus"

"Cycle more, pollute less"

"Today's wastage is tomorrow's shortage"

"Turn off the light for future delight"

"Save Electricity”

"When the Sun is bright, say no to the light"