



**स्वामी राम हिमालयन विश्वविद्यालय**  
**Swami Rama Himalayan University**

## **Policy for Energy Conservation and Clean Energy Technology**

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Next Review	2025-26

**Swami Rama Himalayan University**  
Swami Ram Nagar, Jolly Grant- 248 016, Dehradun, Uttarakhand

# Swami Rama Himalayan University

## Policy for Energy Conservation and Clean Energy Technology

### 1. Short Title & Commencement

1.1 This Policy shall be called the “**Policy for Energy Conservation and Clean Energy Technology**” of Swami Rama Himalayan University.

1.2 This Policy shall be deemed to have come into force from the date of approval of the Board of Management of the University.

### 2. Purpose

This policy establishes the scope and framework for energy conservation at SRHU. It provides structured guidelines for reducing energy consumption, integrating renewable sources, ensuring safe and efficient maintenance of energy systems, and promoting sustainability in all University functions.

### 3. Scope

This policy applies to all stakeholders of SRHU including students, faculty, staff, visitors, and covers:

- 3.1 Academic and administrative buildings
- 3.2 Hospitals and healthcare facilities
- 3.3 Hostels and staff residences
- 3.4 Laboratories and research facilities
- 3.5 Outdoor spaces, street lighting, and common utilities

### 4. Goals

The policy goals are to:

- 4.1 Reduce energy consumption per capita.
- 4.2 Enhance renewable energy adoption.
- 4.3 Ensure energy-efficient building construction and renovation.
- 4.4 Maintain safe, reliable, and efficient operation of electrical systems.
- 4.5 Encourage innovation and research in clean energy technologies.

## **5. Implementation Measures**

The following measures will be taken to conserve energy:

### **5.1 Buildings**

- 5.1.1 Keep doors and windows closed in conditioned spaces to optimize HVAC performance.
- 5.1.2 Switch off unused electrical appliances, fans, and lighting.
- 5.1.3 Install energy-efficient ceiling fans and ensure LED lighting across all buildings.
- 5.1.4 Display energy-saving reminders at switchboards.
- 5.1.5 Encourage passive design features (natural ventilation, insulation, daylight use) during renovations to further reduce energy load.

### **5.2 New and Renovated Infrastructure**

- 5.2.1 All new construction shall adhere to national and international Green Building Norms (IGBC, LEED principles).
- 5.2.2 Incorporate Solar Energy Systems and other renewable options in new construction projects.
- 5.2.3 Install Utility Meters for electricity, water, and major energy loads in all new and renovated buildings.
- 5.2.4 Conduct Energy Audits before major renovation projects to identify opportunities for efficiency upgrades.
- 5.2.5 Explore to carry out Life cycle Cost Analysis for energy-intensive systems (HVAC, lighting, elevators, etc.) to ensure sustainability in investment.

### **5.3 HVAC and Cooling**

- 5.3.1 Replace old cooling systems with BEE star-rated air conditioners using eco-friendly refrigerants.
- 5.3.2 Introduce temperature zoning and automated shut-off systems in large academic, hospital, and hostel spaces.
- 5.3.3 Install occupancy and motion sensors in classrooms, auditoriums, and corridors.
- 5.3.4 Adopt preventive maintenance schedules for all HVAC units to minimize breakdowns and energy losses.



#### **5.4 Transportation**

- 5.4.1 Promote walking, cycling, and public/shared transport among students and staff to minimize vehicular energy consumption.
- 5.4.2 Gradually phase in Electric Vehicles for university operations and provide EV charging stations on campus.
- 5.4.3 Encourage use of university shuttle services to reduce individual car usage.

#### **5.5 Procurement**

- 5.5.1 Prioritize purchase of BEE-certified or ENERGY STAR-rated appliances and equipment.
- 5.5.2 Discourage unauthorized use of high-energy-consuming personal devices (heaters, non-permitted ACs, etc.).
- 5.5.3 Enforce a Centralized Procurement System that considers lifecycle energy efficiency, not just upfront cost.
- 5.5.4 During construction, mandate that contractors comply with energy-efficient material and equipment standards.

#### **5.6 Maintenance**

- 5.6.1 Implement a comprehensive preventive maintenance program covering electrical systems, HVAC, lighting, motors, and pumps.
- 5.6.2 Ensure routine inspections, cleaning, calibration, and performance checks as per manufacturer recommendations.
- 5.6.3 Maintain detailed records of preventive, corrective, and emergency maintenance for accountability.
- 5.6.4 Establish protocols for emergency repairs to ensure uninterrupted services, particularly in hospitals.

#### **5.7 Lighting**

- 5.7.1 Replace all halogen and incandescent lights with LEDs.
- 5.7.2 Install daylight sensors and dimmable controls where feasible.
- 5.7.3 Maximize use of natural daylight through architectural design, skylights, and window orientation.
- 5.7.4 Maintain separate circuits for essential and non-essential lighting to optimize usage.





## **5.8 Awareness, Training, and Monitoring**

- 5.8.1 Conduct at least one Energy Awareness Drive annually for staff and students.
- 5.8.2 Train technical staff on new energy-saving technologies and preventive maintenance.
- 5.8.3 Use digital dashboards and smart meters to monitor real-time energy consumption.
- 5.8.4 Promote student-led initiatives, campaigns, and energy clubs to foster a culture of sustainability.

## **5.9 Research and Innovation**

- 5.9.1 Support intramural research projects on clean and renewable energy technologies.
- 5.9.2 Encourage pilot projects within SRHU to test and evaluate innovative energy solutions before large-scale implementation.
- 5.9.3 Collaborate with government bodies, private agencies, and international organizations under SDG 7 (Affordable & Clean Energy) and SDG 13 (Climate Action).

## **5.10 Responsibilities**

This policy applies to all stakeholders of SRHU and will be managed by concerned departments of the University:

### **5.10.1 Electrical & Maintenance Department**

- 5.10.1a Develop and implement the preventive maintenance program for all electrical, HVAC, and lighting systems.
- 5.10.1b Respond promptly to reported electrical or energy-related issues and initiate corrective action.
- 5.10.1c Conduct emergency repairs in case of critical failures affecting safety, hospitals, or operations.
- 5.10.1d Maintain detailed records of preventive, corrective, and emergency maintenance activities.
- 5.10.1e Ensure calibration and performance checks of equipment are carried out regularly.



### **5.10.2 Civil Engineering Department**

- 5.10.2a Ensure all new buildings and renovation projects comply with Green Building Codes and Energy Efficiency Standards.
- 5.10.2b Integrate Renewable Energy Technologies (e.g., solar, EV charging infrastructure) into infrastructure planning.
- 5.10.2c Carry out Energy Audits before approving major renovation works.
- 5.10.2d Monitor compliance of contractors with energy-efficient construction practices and materials.

### **5.10.3 University Departments, Faculty, and Staff**

- 5.10.3a Report any electrical or energy-related issues immediately to the Electrical & Maintenance Department.
- 5.10.3b Adopt good practices such as switching off unused appliances and avoiding unauthorized high-energy devices.
- 5.10.3c Cooperate during energy audits, awareness drives, and training sessions.
- 5.10.3d Encourage students to actively participate in energy-saving initiatives.

### **5.10.4 Students and Student-Led Energy Clubs**

- 5.10.4a Actively participate in awareness campaigns and energy conservation drives.
- 5.10.4b Promote sustainable practices within hostels and campus activities.
- 5.10.4c Engage in research, projects, and innovations related to renewable and clean energy.
- 5.10.4d Support peer education by spreading awareness of energy mindfulness.

## **6. Monitoring and Review**

- 6.1 Conduct periodic energy audits across all facilities to ensure compliance with this policy.
- 6.2 Maintain documentation and reporting systems for all energy conservation activities.
- 6.3 The policy shall be reviewed periodically based on emerging technologies, regulations, and institutional needs.

7. This policy shall be reviewed every **three years** or earlier if required to accommodate new educational practices, regulatory requirements, or emerging student needs.
8. The University reserves the right to interpret, alter, amend, modify, cancel or withdraw any or all provision mentioned herein above in this policy without any notice.
9. In case of any dispute, the decision of the Vice Chancellor of the University shall be final and binding.

