



POLICY FOR SUSTAINABLE ENERGY, WATER CONSERVATION, AND WASTE MANAGEMENT

1. PREAMBLE

RV College of Engineering, Bengaluru envision 'Leadership in Quality Technical Education, Interdisciplinary Research, and Innovation with focus on sustainable and inclusive technologies'. Institute upholds a dedication to sustainable practices and environmental responsibility. Aligned with UGC's Green Campus guidelines, this policy focuses on incorporating alternative energy sources, advocating water conservation, and ensuring efficient waste management on campus. By embracing these sustainable initiatives, Institute aims to diminish its carbon footprint, preserve natural resources, and cultivate an ethos of environmental awareness among students, faculty, and staff.

2. OBJECTIVES

- ✓ To utilize solar and wind to lessen reliance on traditional energy sources and mitigate greenhouse gas emissions.
- ✓ To implement efficient practices and technologies to conserve water resources and decrease wastage.
- ✓ To adopt a holistic waste management strategy emphasizing recycling, waste reduction, and responsible disposal to minimize environmental impact.
- ✓ To ensure all forthcoming infrastructure and developmental projects conform to sustainable and eco-friendly standards.
- ✓ To implement measures to curtail greenhouse gas emissions through the utilization of alternate energy sources and sustainable practices.

3. ALTERNATE ENERGY RESOURCES

3.1 Renewable Energy Initiatives

1. Institute commits to enhancing its reliance on renewable energy sources, including solar and wind.
2. A comprehensive energy audit is conducted to identify areas for energy consumption reduction and promote the adoption of energy-efficient technologies.
3. Institution installed solar panels and other renewable energy infrastructure across campus buildings to meet a significant portion of the institution's energy demand.
4. Smart technology is introduced to conserve energy, with sensor-based mechanisms controlling lighting and other equipment for minimal electricity usage.
5. LED lighting is implemented for energy efficiency in classrooms, labs, auditoriums, and halls.
6. Institute collaborates with research institutions and government agencies to explore innovative and sustainable energy solutions.

4. WATER CONSERVATION

4.1 Water Efficiency Measures

1. Institute implements water-efficient practices campus-wide to reduce water consumption



2. Priority is given to installing low-flow faucets, showerheads, and water-efficient fixtures in new constructions and retrofits.
3. Regular plumbing system maintenance and prompt leak repair is ensured.
4. Awareness campaigns and educational programs is conducted to promote responsible water usage.

4.2 Rainwater Harvesting

1. Institute deploys rainwater harvesting systems in suitable campus buildings for non-potable uses such as landscaping, gardening, toilet flushing, and cooling systems.
2. Appropriate infrastructure and guidelines is provided for efficient utilization of captured rainwater.

4.3 Greywater Management

1. Greywater treatment systems is installed to treat and reuse wastewater for non-potable purposes.
2. Drilling borewells is permitted only when absolutely necessary, with existing borewells recharged through recharge pits and rainwater discharge.
3. Storage tanks or bunks are constructed to hold excess water.
4. Guidelines and educational programs is developed to promote responsible greywater use and management.

5. WASTE MANAGEMENT

5.1 Solid Waste Management

1. Institute segregates degradable solid waste into organic compost for internal use and non-degradable waste for collection by the Bengaluru Mahanagara Palike.
2. Emphasis is placed on paperless technology adoption for data sharing and lecture materials.
3. One-sided papers are repurposed for necessary printing activities.

5.2 Liquid Waste Management

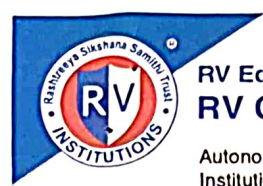
1. Chemical liquid waste from labs is collected in separate soak pits away from water bodies.
2. Periodic emptying and careful disposal of Institute soak pits occur outside the campus premises.

5.3 Waste Reduction

1. Institute promotes waste reduction and recycling across campus.
2. Recycling bins are strategically placed for convenient waste segregation.
3. Partnerships with local recycling facilities are established to enhance waste management and recycling.
4. Awareness campaigns and educational programs are conducted to educate the community on waste reduction and recycling.

5.4 Composting

1. Composting facilities are established to process organic waste for landscaping and gardening purposes.
2. Guidelines and training programs on composting are provided to encourage proper waste separation and disposal.



5.5 Hazardous Waste Management

1. Institute ensures safe handling, storage, and disposal of hazardous waste, complying with environmental regulations.
2. Proper storage facilities, labeling, and training programs are provided to personnel dealing with hazardous materials.

5.6 E-Waste Management

1. The Central Maintained Department oversees e-waste management, developing structured plans during disposal.
2. MoUs are established with authorized e-vendors for e-waste recycling.

5.7 Towards a Green and Sustainable Campus

1. Environmental awareness and sustainability are promoted throughout the RVCE community.
2. Green Audit implementation is ensured for Green Campus certification.
3. Electric vehicles are provided for campus transportation, prioritizing accessibility for visitors and students with disabilities.
4. Pedestrian-friendly walkways ensure safety for pedestrians.
5. A zero-tolerance policy on plastic use is enforced.
6. Tree plantation drives are organized, with visitors encouraged to participate in tree planting during campus visits.

6. Monitoring and Reporting

1. Institute maintains a robust monitoring and reporting system to evaluate the effectiveness of this Policy.
2. Regular audits and inspections are conducted by approved auditing agencies to assess energy consumption, water usage, and waste management practices.

This Policy will undergo periodic review to address any anomalies and incorporate stakeholder feedback obtained through impact analysis and deliberations of the Focus Group led by the Principal.


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