AMITY UNIVERSITY
RAJASTHAN

Kant Kalwar, NH-11-C,
Jaipur (Rajasthan) 303002
Tel: 01426 - 405678
Fax: 01426 - 405679

Carbon Management Process Policy

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Introduction

Amity University Rajasthan (AUR) recognizes its institutional responsibility to address the pressing global challenge of climate change by minimizing its carbon footprint and aligning with India's commitment to achieve Net Zero emissions. The Carbon Management Process Policy of AUR provides a comprehensive framework for systematically measuring, managing, and reducing greenhouse gas emissions from university operations. This policy embodies AUR's vision to be a carbon-responsible campus, integrating sustainability into all academic, administrative, and infrastructural functions.

Purpose and Vision

Purpose:
The purpose of the Carbon Management Process is to enable the university to systematically measure, reduce, and offset its carbon emissions in alignment with national and global climate goals, including the pursuit of Net Zero.

Vision:
To establish AUR as a carbon-responsible and energy-efficient campus that promotes environmental stewardship through data-driven reduction of greenhouse gas emissions and fosters a sustainable academic ecosystem.

Objectives

- To quantify and track all GHG emissions generated by campus activities.
- To develop and implement strategies for reducing carbon emissions in energy, transport, and waste systems.
- To integrate renewable energy and green infrastructure in all institutional operations.
- To create a culture of climate accountability, awareness, and sustainability among all stakeholders.
- To progressively move toward carbon neutrality through innovation, collaboration, and policy integration.

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Scope

The Carbon Management Process applies to:

- All university-owned or operated buildings, laboratories, and facilities.
- Campus energy use includes electricity, fuels, and HVAC systems.
- Transportation systems including university fleet and staff/student commuting.
- Waste management, water use, and procurement operations.
- Indirect emissions associated with outsourced services and supply chains.

Carbon Reduction Strategies

A. Energy Efficiency

- Retrofit existing infrastructure with energy-efficient systems such as LED lighting, HVAC optimization, and building insulation.
- Implement Building Management Systems for real-time energy monitoring and control.
- Promote passive architectural designs, daylighting, and energy-efficient construction materials in all new developments.

B. Renewable Energy Integration

- Expand installation of rooftop solar photovoltaic systems across academic and residential buildings.
- Promote the use of solar water heaters in hostels, canteens, and laboratories.
- Explore the establishment of biogas plants for the conversion of organic waste to renewable energy.

C. Sustainable Mobility

- Encourage sustainable commuting options such as carpooling, cycling, walking and use of EVs - electric vehicles.
- Gradually transition of the university's vehicle fleet to low-emission or electric alternatives.

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D. Waste and Water Management

- Promote segregation, recycling, and composting of organic waste for use in campus landscaping.

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- Implement rainwater harvesting and greywater recycling systems for HVAC and horticultural use.
- Encourage responsible consumption practices to minimize waste generation and reduce indirect carbon emissions.

E. Carbon Offsetting

- Offset unavoidable emissions through extensive tree plantation drives and participation in certified carbon credit programs.
- Collaborate with national and international agencies for verified carbon offsetting and climate impact projects.

Implementation Framework

- **Institutional Commitment:** The senior leadership of AUR demonstrates a strong and sustained commitment to carbon management, ensuring that all initiatives are supported at policy and operational levels.
- **Governance and Oversight:** A designated sustainability along with university administration oversees the Carbon Management Process with supported suggestion by the Environmental Scientist.
- **Baseline Assessment:** AUR conducts periodic baseline carbon assessments following international standards such as the Greenhouse Gas Protocol to quantify emissions from all operational sources.
- **Target Setting:** Based on the assessment, AUR defines science-based, time-bound targets consistent with global climate goals (e.g., limiting global temperature rise to below 2°C).
- **Action Plan:** Develop and implement a detailed emission reduction plan encompassing renewable energy adoption, waste minimization, sustainable mobility, and energy efficiency improvements.
- **Monitoring and Reporting:**
  - Use specialized software and analytical tools to monitor emissions and evaluate progress.
  - Publish an **Annual Carbon Footprint and Sustainability Report** highlighting milestones, challenges, and achievements.
- **Stakeholder Engagement:**
  - Engage staff, students, and the community through participatory initiatives, awareness campaigns, and capacity-building workshops.
  - Encourage student-led research and innovation projects on emission reduction and sustainable technologies.

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- **Compliance and Transparency:**
  - Ensure adherence to national and international environmental reporting standards.
  - Maintain transparency and accountability in monitoring, data reporting, and public communication.
- **Partnerships:**
  - Collaborate with universities, industries, and environmental organizations to promote shared learning and collective carbon management initiatives.

Outcomes and Impact

- Measurable reduction in total GHG emissions across university operations.
- Enhanced institutional reputation as a Sustainable and Green Campus.
- Cost savings through energy conservation and optimized resource utilization.
- Academic integration of carbon management through research, curriculum, and extension activities.
- Strengthening environmental consciousness and participatory engagement among all university stakeholders.