



Waste Management and 3R (Reduce, Reuse, Recycle) Program Report

Waste Management and Resource Circularity

The University remains committed to strengthening its environmental stewardship through the implementation of an integrated **3R (Reduce, Reuse, Recycle) Program**, which promotes responsible resource consumption, waste minimization, and circular economy practices across the campus. During the reporting year, the University achieved **50% implementation** of its institutional 3R program, reflecting steady progress in embedding sustainable waste management into campus operations while identifying opportunities for further expansion.

Recognizing that waste prevention is the most effective strategy for reducing environmental impacts, the University implemented **seven (7) campus-wide initiatives** designed to reduce paper and plastic consumption. These initiatives include campaigns promoting digital documentation and paperless transactions, the reduction of single-use plastics in university activities, awareness programs on responsible consumption, reusable container campaigns, waste segregation advocacy, sustainable procurement practices, and educational activities that encourage environmentally responsible behavior among students, faculty, staff, and campus stakeholders.

Waste Generation and Treatment Performance

During the reporting period, the University recorded a combined **paper and plastic waste generation of 544.85 units**, compared with **486.14 units** in the previous year. The increase reflects higher campus utilization and academic activities following expanded institutional operations. While waste generation increased, the University continues to prioritize source reduction through preventive measures rather than relying solely on end-of-pipe waste treatment.

Organic waste generation reached **253.42 units**, compared with **226.12 units** in the previous year. Of this amount, **25.20 units** were treated through existing organic waste management practices, representing **partial treatment (up to 35%)**. Current treatment initiatives include composting and other biological waste management approaches that divert biodegradable waste from disposal while supporting landscape maintenance and soil improvement.

The University generated **544.85 units of inorganic waste**, compared with **486.14 units** in the previous reporting year. A total of **5.84 units** underwent treatment through recycling and recovery initiatives, corresponding to **partial treatment (up to 35%)**. Recyclable materials are segregated at source and recovered through institutional waste management systems and partnerships with accredited waste collectors and recycling service providers.

Hazardous and toxic waste remained relatively low compared with other waste streams. During the reporting period, the University generated **9.79 units of toxic waste**, compared with **8.56 units** in the previous year. Of this volume, **0.20 units** were treated through appropriate hazardous waste handling procedures, representing **partial treatment (up to 35%)**. Toxic waste generated primarily from laboratories and maintenance operations is managed in accordance with applicable environmental





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regulations and institutional safety protocols to minimize risks to human health and the environment.

Wastewater Management

The University continues to manage wastewater responsibly through **preliminary sewage treatment** prior to disposal. This treatment process removes coarse solids and suspended materials before discharge, reducing the environmental burden on receiving water systems while supporting regulatory compliance. The institution recognizes the importance of progressively enhancing wastewater treatment infrastructure as part of its long-term sustainability strategy.

Contribution to the Sustainable Development Goals (SDGs)

The University's waste management initiatives demonstrate a **moderate contribution** to the United Nations Sustainable Development Goals, supporting **three to five SDGs** through integrated environmental management and resource conservation practices.

The 3R Program directly advances **SDG 12 (Responsible Consumption and Production)** by promoting waste reduction, recycling, resource efficiency, and sustainable consumption behaviors throughout the campus community. Organic waste treatment and waste diversion initiatives contribute to **SDG 13 (Climate Action)** by reducing greenhouse gas emissions associated with landfill disposal and encouraging low-carbon waste management practices. Proper segregation, treatment of hazardous waste, and preliminary wastewater treatment further support **SDG 6 (Clean Water and Sanitation)** by reducing potential environmental contamination and improving pollution control. Collectively, these initiatives also contribute to **SDG 11 (Sustainable Cities and Communities)** through responsible campus operations and **SDG 17 (Partnerships for the Goals)** through collaboration with licensed waste management and recycling partners.

Continuous Improvement and Future Directions

While measurable progress has been achieved, the University recognizes the need to strengthen the effectiveness and coverage of its waste management system. Future priorities include expanding the implementation of the institutional 3R Program beyond the current 50% level, increasing waste diversion and recycling rates, enhancing organic waste treatment capacity, reducing paper and single-use plastic consumption through digital transformation, improving hazardous waste recovery systems, and upgrading wastewater treatment facilities.

The University remains committed to continuously improving environmental performance through evidence-based policies, stakeholder engagement, infrastructure investment, and sustainability education. These efforts reinforce the institution's commitment to responsible campus management and support its aspiration to align with internationally recognized sustainability standards and global university ranking frameworks.

