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Owned and operated by the City Government of Urdaneta

URDANETA CITY UNIVERSITY STRENGTHENS WATER MANAGEMENT THROUGH COMPREHENSIVE USAGE MONITORING

In its continuous commitment to sustainability and environmental responsibility, Urdaneta City University (UCU) has implemented a systematic approach to measure and monitor the total volume of water used across campus. This practice ensures efficient resource management, promotes conservation, and aligns with the principles of Sustainable Development Goal 6 (SDG 6): Clean Water and Sanitation, particularly the target of improving water-use efficiency and ensuring sustainable water availability.

Purpose and Rationale

Recognizing the growing importance of water conservation, UCU has taken proactive steps to assess how much water the university consumes from different sources — including the mains supply, rainwater catchments, and locally extracted water. By keeping accurate records, the university aims to identify patterns of consumption, detect potential wastage, and plan targeted interventions that reduce its environmental footprint.

Monitoring System and Implementation

The university's Facilities and Maintenance Office oversees the regular tracking of water usage through installed water meters and data logging systems.

MAKE SDG#6 A REALITY

6 CLEAN WATER AND SANITATION

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These meters record the total water drawn from various sources such as:

- Mains supply, which provides the bulk of potable water used in classrooms, laboratories, and administrative offices.
- Rainwater-harvesting systems, which supplement water for irrigation and cleaning to minimize reliance on treated water.
- Groundwater or extracted sources, monitored to ensure sustainable withdrawal and compliance with local environmental regulations.

Collected data are compiled monthly and analyzed to monitor trends in consumption. The information is also used to support sustainability audits, budget planning, and infrastructure improvement projects such as pipe maintenance, leak detection, and installation of water-saving fixtures.

Impact and Outcomes

Through this initiative, UCU has gained a clearer understanding of its overall water footprint. The data-driven approach has enabled the university to:

- Reduce unnecessary water losses through early detection of leaks.
- Promote efficient irrigation systems and sustainable landscaping.
- Support long-term planning for water reuse and recycling technologies.
- Raise awareness among students and staff about the importance of responsible water use.

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Alignment with the Sustainable Development Goals

This practice supports SDG 6 (Clean Water and Sanitation) and contributes indirectly to SDG 12 (Responsible Consumption and Production). By tracking and managing water consumption, UCU demonstrates how higher-education institutions can lead by example in promoting sustainable resource use.

Looking Ahead Moving forward, Urdaneta City University plans to expand its monitoring system by introducing digital smart-metering and integrating real-time data visualization into campus sustainability dashboards. These efforts will enhance transparency, improve data accuracy, and further reinforce UCU's role as a model for sustainable campus operations.

Through consistent measurement, analysis, and responsible management, UCU continues to uphold its mission of fostering environmental stewardship while ensuring that every drop of water contributes to a sustainable future.

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