



國立勤益科技大學  
NCUT  
NATIONAL CHIN-YI UNIVERSITY OF TECHNOLOGY

University : National Chin-Yi University of Technology  
Country : Taiwan  
Web Address : www.ncut.edu.tw



## [SDG6] Clean Water and Sanitation

[SDG6.4.1] Does your university as a body have a policy to maximise water reuse across the university?

### Water reuse

#### (1) Environmental Protection Policies and Goals:

To promote a sustainable campus, we have formulated an 'environmental policy' grounded in key concepts such as 'compliance with laws,' 'pollution prevention,' 'recycling,' and 'continuous improvement.' We are committed to adhering to government environmental laws and regulations, conducting regular inspections, effectively implementing pollution prevention and control measures, and strengthening education and training to enhance the environmental awareness of all employees. We aim to embody the spirit of improvement, enhance environmental quality, and fulfill our responsibilities as members of the global village.

#### (2) Water Resources Management:

To efficiently manage and control water resource usage, a digital electricity meter has been installed on the main water inlet meter, integrated into the school's energy management system. The school's water usage is monitored in real-time through the system, and emergency response procedures are initiated promptly upon detecting abnormal drops. Additionally, faucets, urinals, and toilets in each building have been replaced with products bearing the water-saving label, and water-saving devices have been installed on faucets to effectively achieve water conservation.

#### (3) Rainwater Recycling and Reuse:

NCUT's library, Chin-Yi dormitory and machine tool building have implemented rainwater-recycling systems. These systems recycle rainwater for toilet flushing and surrounding irrigation within the buildings

#### (4) Wastewater Treatment, Recycling, and Reuse:

A sewage treatment plant collects wastewater from the entire school, including laboratory wastewater, and employs biological treatment procedures to ensure proper treatment until it meets discharge water standards. Subsequently, 40% of the reclaimed water is supplied for campus irrigation and the water source of Mingxiu Lake. Water quality inspections are conducted every six months to ensure compliance with emission standards.



Put up water saving posters to remind teachers and students to save water



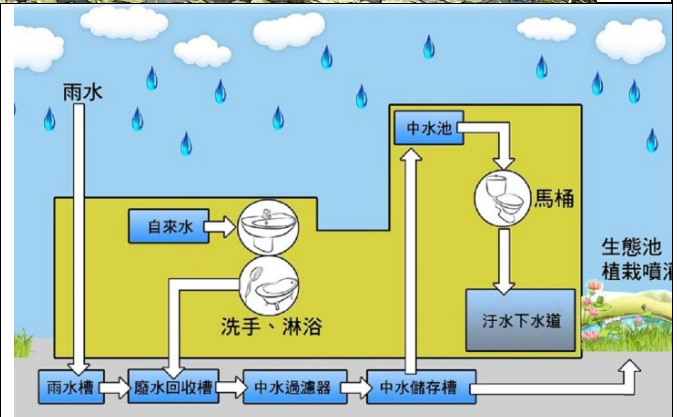
Guoxiu Teaching Building Rainwater Recovery System, NCUT



Water recycling pool



Recycled Water Filtration Equipment



Sewage treatment plant recycles reclaimed water

### Description:

Wastewater on the NCUT campus is collected and undergoes rigorous control and treatment processes. Once it meets specific water quality standards, it is used for sanitary flushing within buildings and as a supplemental water source for the campus's landscape lakes.

1. **Energy Management System:** NCUT has implemented an energy management system that includes digital water meters to monitor water usage.
2. **Digital Water Meters:** Digital water meters have been installed in each school building to record daily water consumption. The school's sewage treatment plant collects wastewater from the entire campus, which then undergoes a three-level treatment process. The treated water that meets established standards is recycled and reused, primarily for irrigating campus lawns and trees and as a water source for Mingxiu Lake, resulting in a 40% reduction in water consumption.
3. **Rainwater Recycling System:** The NCUT Building is equipped with a rainwater recycling system. After recycling and disinfection, the harvested rainwater is used for flushing toilets within the building.