



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

## [SDG 6] Clean Water and Sanitation 淨水與衛生

[6.3.4] Does your university as a body apply building standards to minimise water use? (relevant standards to be indicated)

### Water-Saving Measures at NCUT

The water-saving measures implemented at National Chin-Yi University of Technology (NCUT) showcase a comprehensive approach to sustainability and resource management. Below is a summary of the key aspects of NCUT's water conservation strategy:

#### 1. Water Conservation Management and Strategy:

- **Comprehensive Plan:** NCUT has developed a detailed water conservation management plan, appointing dedicated personnel to oversee water-saving efforts.
- **Water-Saving Opportunities:** Regular assessments of water use across laboratories, dormitories, dining facilities, and air conditioning systems allow for targeted water-saving improvements.
- **Education and Advocacy:** Staff are enrolled in water conservation courses, and water-saving principles are promoted throughout the campus community.

#### 2. Specific Water-Saving Measures:

- **Air Conditioning System:** Improved cooling technologies, condensate recovery, and regular system maintenance optimize water usage.
- **Water Equipment:** Installation of low-flow fixtures, smart meters, and real-time monitoring systems helps minimize wastage.
- **Restroom Facilities:** Dual-flush toilets and efficient models reduce water consumption, while users are educated on responsible usage.
- **Dormitories and Restaurants:** Awareness campaigns, water-saving appliances, and guidelines for efficient water use are implemented.
- **Gardens and Green Spaces:** Drought-resistant plants, smart irrigation, rainwater reuse, and mulching techniques reduce the water demand for landscaping.

#### 3. Rainwater Collection and Reclaimed Water Use:



- **Enhanced Rainwater Harvesting:** NCUT has upgraded rainwater collection systems and expanded applications for rainwater reuse, such as irrigation and non-potable needs.
- **Reclaimed Water Treatment:** Advanced treatment technologies and expanded use of reclaimed water in cooling systems and irrigation help further conserve fresh water.
- **Sewage Treatment:** Discharged water from sewage treatment is enhanced for reuse in irrigation and other non-potable applications, meeting regulatory standards.

#### 4. Water Conservation Performance Evaluation:

- **Target Water Reduction:** NCUT tracks and monitors reductions in water consumption, setting specific goals to measure progress.
- **Annual Water Consumption Monitoring:** The average water consumption per person is tracked, and total savings are calculated in cubic meters.
- **Cost and Economic Benefits:** The costs of water-saving measures are weighed against the financial savings from reduced water bills.

#### 5. Recognition and Innovation:

- **Government Recognition:** NCUT has received accolades from the Water Resources Department for its outstanding achievements in water conservation.
- **Innovative Methods:** NCUT serves as a model for other institutions by sharing and showcasing innovative water-saving techniques.

#### 6. Water-Efficient Appliances:

- **Sensor-Operated Urinals and Faucets:** Automatic flush systems and sensor-activated faucets are installed to optimize water use and maintain hygiene.
- **Dual-Flush Toilets:** Users can choose between two flush options, conserving water by adjusting for liquid or solid waste.

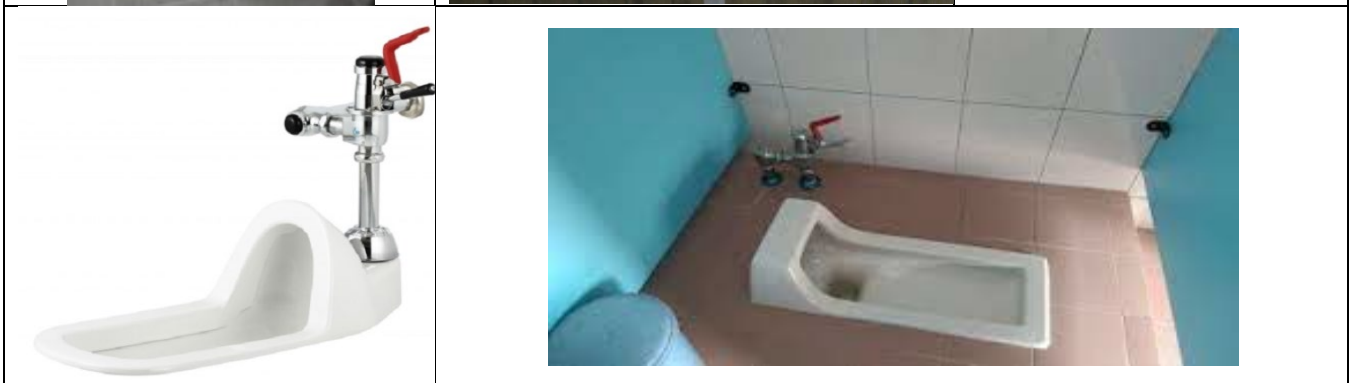
By implementing these strategies and continuously evaluating performance, NCUT not only promotes sustainability but also strengthens its commitment to water conservation, fostering an eco-friendly and resource-efficient campus environment.

Appliance	Total Number	Total number water Efficient appliances	Percentage
toilet urinals	350	350	100%
faucet	520	500	96.1%
two-stage toilet	215	215	100%
		<b>Average Percentage</b>	<b>98.7%</b>

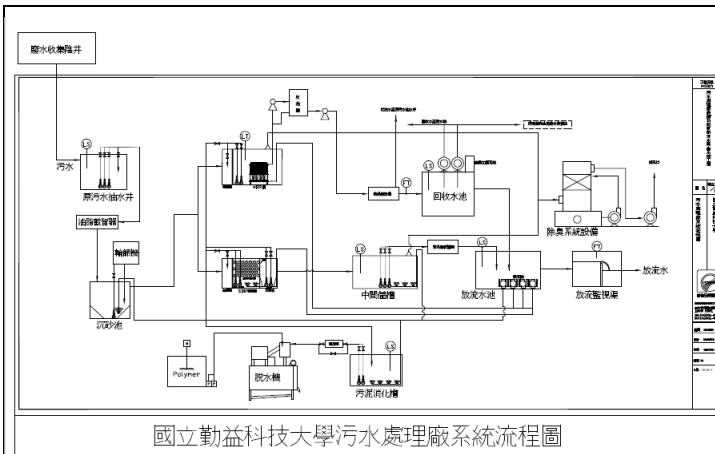


Induction urinal

Induction faucet and installation of water-saving device



Water saving equipment





NCUT has a sewage treatment plant, which is responsible for the sewage treatment and laboratory wastewater of the whole school. The sewage is partially recycled and reused according to regulations, and the rest is discharged from the discharge port.



NCUT reuses the discharged water treated by the sewage treatment plant and first deposits it in the middle pool.

The Mingxiu Lake of NCUT can be used as an ecological lake at the campus, and it also has a function of detention ponds, which can regulate the amount of water.