



University : National Chin-Yi University of Technology  
Country : Taiwan  
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## [SDGs 6] Clean Water and Sanitation 淨水與衛生

### [6.5.6] Does your university as a body actively promote conscious water usage on campus?

National Chin-Yi University of Technology (NCUT) is dedicated to promoting conscious water usage as part of its commitment to sustainability and resource conservation. Through a combination of water-saving technologies, educational initiatives, and responsible water management practices, NCUT fosters an awareness of sustainable water usage across the campus community.

## Promoting Conscious Water Usage at NCUT

### 1. Water-Saving Infrastructure

- **Digital Water Meters:** NCUT has installed digital water meters in all campus buildings to monitor and record water consumption in real-time. This data provides insights into usage patterns and helps identify areas where water conservation efforts can be enhanced.
- **Rainwater Collection System:** In the Qinyi Dormitory, NCUT has implemented a rainwater harvesting system. Collected rainwater is filtered, disinfected, and used to flush toilets, reducing reliance on freshwater resources and highlighting a practical application of sustainable practices.
- **Efficient Sewage Treatment Plant:** NCUT's sewage treatment plant treats and recycles wastewater for reuse on campus. Approximately 40% of treated water is repurposed for irrigating campus greenery, including plants, trees, and the campus lake, helping to cut down on water usage significantly.

### 2. Educational Campaigns and Awareness Programs

- **Conservation Awareness Programs:** NCUT conducts workshops, seminars, and awareness campaigns to educate students, staff, and faculty about water conservation. These programs emphasize the importance of conscious water usage in everyday activities, from personal consumption to operational practices within the university.
- **Eco-Friendly Signage:** Signs promoting water-saving habits, such as turning off taps and reporting leaks, are displayed around campus facilities. This visual reinforcement encourages the NCUT community to adopt responsible water practices regularly.

### 3. Sustainable Irrigation Practices

- **Eco-Friendly Landscaping:** NCUT maintains a landscape that includes drought-resistant plants to minimize irrigation needs. Additionally, the use of treated wastewater for campus irrigation reduces the demand for fresh water.
- **Automated Irrigation Systems:** NCUT employs automated irrigation technologies that adjust water distribution based on weather conditions and soil moisture levels. This system prevents water wastage and optimizes water usage for landscaping.

#### 4. Student and Staff Involvement

- **Conservation Competitions:** NCUT organizes water-saving competitions between departments and dormitories, encouraging students and staff to reduce their water consumption actively.
- **Sustainability Literacy Programs:** Water conservation is included in the university's sustainability literacy programs, helping students understand the broader environmental impact of water usage and the importance of preserving this essential resource.

#### 5. Regular Monitoring and Reporting

- **Transparent Water Usage Reports:** NCUT publishes regular reports on water consumption, providing transparency and setting conservation benchmarks. Progress against water-saving goals is shared with the campus community to maintain engagement and motivation.
- **Ongoing Evaluations and Improvements:** NCUT's facilities management team conducts regular audits of water usage systems, exploring new technologies and practices that can further enhance water conservation efforts.

Through these initiatives, NCUT exemplifies a proactive approach to sustainable water management, fostering a community that values and practices conscious water usage. This commitment supports the university's broader sustainability goals and aligns with its dedication to environmental responsibility.



| Induction urinal   | Induction faucet and installation of water-saving device                            |  |
|--|---|--|
|   |   |   |
|  |  |  |
| Water saving equipment   |   |  |

## Water Efficient Appliances Usage

These are some commendable initiatives taken by NCUT to promote water conservation and improve water efficiency on campus. Here's a summary of the measures:

1. **Sensor-Operated Urinal Flush Systems:** NCUT has upgraded its toilet urinals with sensor-operated water-saving flush systems. These sensors automatically control the flush, reducing water usage and minimizing the need for manual maintenance. This is an effective way to conserve water while maintaining restroom hygiene.
2. **Dual-Flush Toilets:** The installation of dual-flush systems in toilets provides users with the option to select between two levels of flushing. This approach empowers individuals to use less water for liquid waste and more for solid waste, effectively reducing overall water consumption in restrooms.
3. **Sensor-Activated Faucets:** NCUT has replaced traditional faucets with sensor-activated models. These sensor-operated faucets dispense water efficiently through induction. This not only conserves water by minimizing wastage but also contributes to maintaining the cleanliness of the sink area.

By implementing these water-saving measures, NCUT demonstrates its commitment to environmental sustainability and responsible resource management. These initiatives not only



reduce water consumption but also promote a more eco-friendly and hygienic 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> |