

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

[6.3.5] Does your university as a body plant landscapes to minimise water usage? (e.g. use drought-tolerant plants)

NCUT's Landscaping to Minimize Water Usage

National Chin-Yi University of Technology (NCUT) manages its **30-hectare campus**, two-thirds of which is covered by vegetation, in a way that reflects its commitment to sustainability, water conservation, and climate adaptation.

1. Drought-Tolerant Landscaping

- NCUT **prefers plant species that consume less water and are suited to the local climate.**
- By prioritizing **drought-tolerant plants**, irrigation demand is significantly reduced, particularly during the dry season.
- Mulching and soil management techniques are applied to enhance water retention.

2. Adaptation to Climate Change

- Many of NCUT's trees are **over 30 years old**, and the university is actively taking inventory of plant species to adapt landscaping practices to **changing climate conditions.**
- Focus is placed on **water-efficient management** to preserve the health of older trees and sustain the overall campus ecosystem.

3. Sustainable Plant Selection

- For new landscaping projects, NCUT has made a **strategic decision to use primarily drought-resistant plants.**
- This long-term approach not only reduces water consumption but also aligns with **Taiwan's shifting environmental conditions** and NCUT's broader climate resilience goals.

4. Smart Irrigation and Reclaimed Water Use

- Landscaped areas are maintained using **smart irrigation systems**, supplemented by **reclaimed water from NCUT's sewage treatment plant** and **rainwater harvesting systems.**
- **Mingxiu Lake** also functions as an ecological lake and detention pond, regulating water resources for landscaping while enhancing biodiversity.

Contribution to SDGs

- **SDG 6 – Clean Water and Sanitation:** Reduced freshwater demand through drought-tolerant planting and reclaimed water use.
- **SDG 11 – Sustainable Cities and Communities:** Resilient green infrastructure that maintains biodiversity and ecosystem health.
- **SDG 13 – Climate Action:** Adaptive landscaping strategies that respond to reduced rainfall and climate variability.



camphor trees



camphor trees



banyan trees



mahogany trees

By selecting **drought-resistant species**, NCUT reduces water consumption in its landscaping efforts. The camphor, banyan, and mahogany trees are well-suited to the local climate, making them environmentally sustainable choices.

In addition, the water for the plants on the campus is the **discharge water** from the **treated wastewater** from the campus, **not the drinking water**.









The newly added plants are mainly drought-tolerant.