



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

University : National Chin-Yi University of Technology
Country : Taiwan
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[SDG6] Clean Water and Sanitation

[SDG6.3.1] Does your university as a body have a process in place to treat waste water?

NCUT has implemented a closed-loop water recycling strategy, where treated wastewater is reused on campus to promote sustainability and reduce dependency on municipal water supplies. This initiative is part of the university's comprehensive effort to improve water efficiency and contribute to national goals on water conservation.

Sources and Usage of Treated Water:

1. Campus Sewage Treatment Plant

- Wastewater from dormitories, laboratories, restrooms, and academic buildings is collected by NCUT's sewage treatment plant.
- The water undergoes three-level treatment — physical, chemical, and biological processes — to meet Taiwan's discharge and reuse standards.

2. Treated Water Reuse Rate

- 40% of the treated water is recycled and reused on campus, amounting to a substantial reduction in the overall consumption of fresh water.

3. Primary Uses of Treated Water

- Irrigation of campus greenery, including trees, lawns, and flower beds
- Supplementing the water level of Mingxiu Lake, a key feature of the campus landscape
- In selected buildings, sanitary flushing systems (e.g., toilet flushing) also use reclaimed water

4. Water Quality Monitoring

- Water quality tests are conducted biannually to ensure compliance with national safety and environmental standards.
- Monitoring is carried out in coordination with Taiwan's Environmental Protection Bureau, with regular reporting submitted for oversight.

Results and Impact:

- 40% water reuse efficiency from internal sources
- Reduction of total annual water consumption

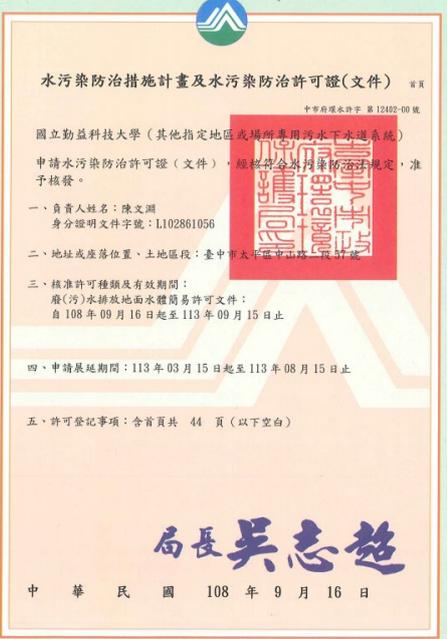
- Conservation of freshwater resources and cost-effective utility management
- Reinforcement of NCUT's green campus infrastructure

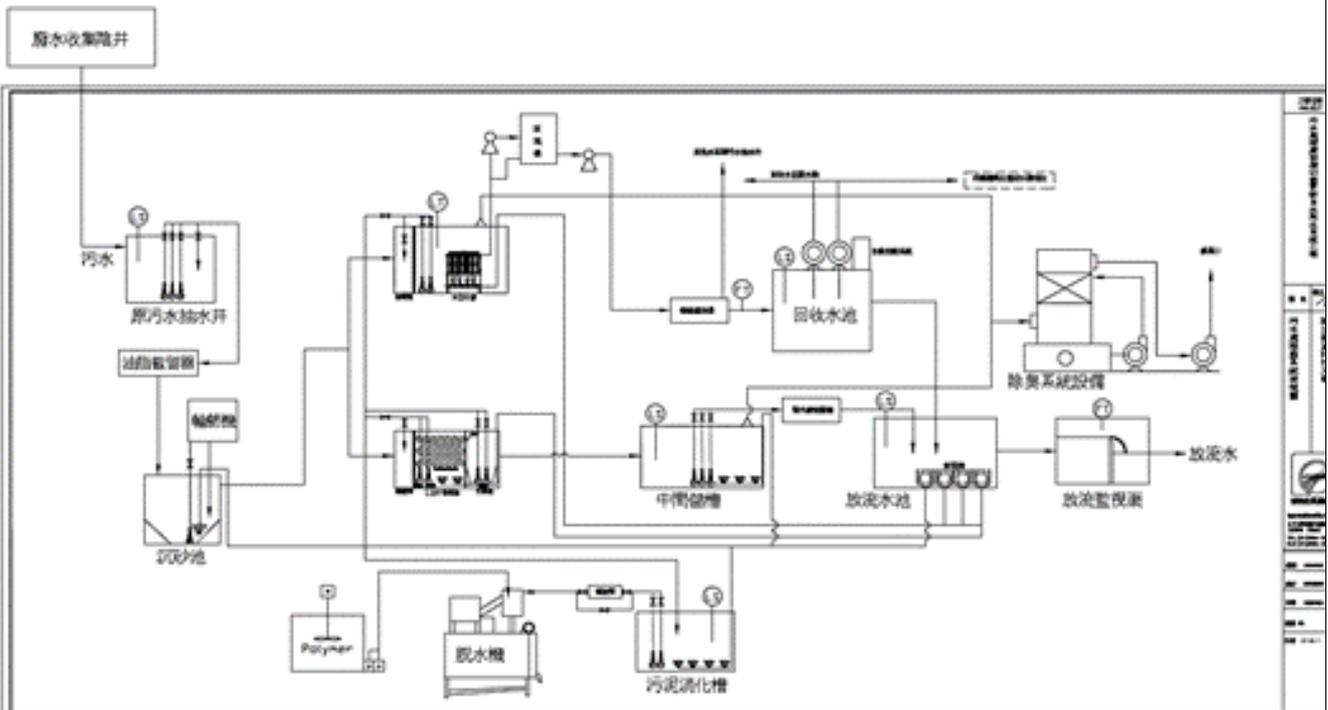
Contribution to the Sustainable Development Goals (SDGs):

SDG	Contribution
SDG 6 – Clean Water and Sanitation	Treated wastewater is safely reused for non-potable purposes
SDG 12 – Responsible Consumption and Production	Efficient reuse of treated water aligns with sustainable resource management
SDG 13 – Climate Action	Reduces water resource pressure and supports climate resilience

Evidence:

1. [【SDG 6】淨水與衛生 Clean Water and Sanitation](#)
2. [451547952.pdf](#)
3. [315447334.pdf](#)

 <p>水污染防治措施計畫及水污染防治許可證(文件) 首頁 <small>中華民國 108 年 9 月 16 日</small></p> <p>國立勤益科技大學 (其他指定地區或場所專用污水下水道系統) 申請水污染防治許可證(文件), 經檢核符合水污染防治規定, 准予核發。</p> <p>一、負責人姓名: 陳文淵 身分證明文件字號: L102861056</p> <p>二、地址或座落位置、土地區段: 臺中市太平區中山路一段 57 號</p> <p>三、核准許可種類及有效期間: 廢(污)水排放地面水體簡易許可文件: 自 108 年 09 月 16 日起至 113 年 09 月 15 日止</p> <p>四、申請展延期間: 113 年 03 月 15 日起至 113 年 08 月 15 日止</p> <p>五、許可登記事項: 含首頁共 44 頁 (以下空白)</p> <p>局長 吳志超</p> <p>中華民國 108 年 9 月 16 日</p>	 <p>Sewage plant treatment equipment</p>
<p>Environmental Protection Agency Approval of Permit</p>	<p>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.</p>



國立勤益科技大學污水處理廠系統流程圖

承包商：福崧實業股份有限公司

Sewage treatment flow chart



Guoxiu Teaching Building Rainwater Recovery System, NCUT



Water recycling pool

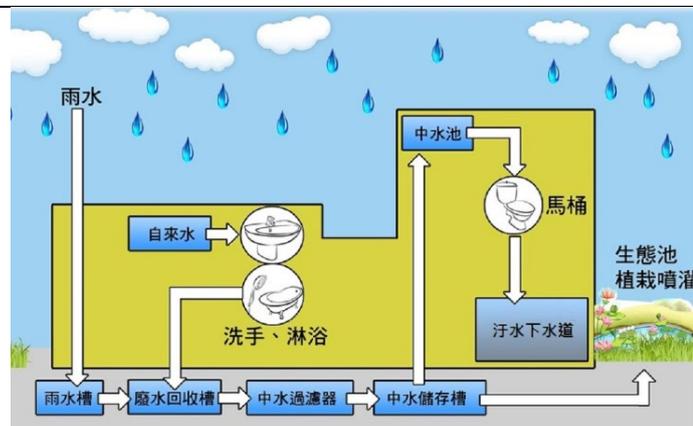


Recycled Water Filtration Equipment





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.



Sewage treatment plant recycles reclaimed water

SOP for NCUT Waste Water Treatment

NCUT's Standard Operating Procedure (SOP) for wastewater treatment is an essential document outlining the university's procedures and protocols for treating sewage generated within the campus. It demonstrates a commitment to environmental responsibility and compliance with relevant regulations, particularly the Water Pollution Control Law. Here is a summary of the key points in the SOP:

1. Purpose:



The primary objective is to treat NCUT's campus sewage using biological treatment methods to ensure that the discharged water meets the legal discharge standards.

2. Applicable Regulations:

The SOP aligns with the Water Pollution Control Law, which sets legal requirements and standards for wastewater treatment and discharge.

3. Scope:

The SOP applies to sewage generated from buildings located on the NCUT campus.

This SOP serves as a critical guide for NCUT in managing its wastewater responsibly, safeguarding the environment, and complying with relevant legal requirements. It reflects the university's commitment to sustainable practices and environmental protection.