



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



[SDG 12] Responsible Consumption and production 責任消費與生產

[12.2.4] Does your university as a body have a policy on waste disposal - To measure the amount of waste sent to landfill and recycled?是否制定了廢物處理政策——衡量送往垃圾填埋場和回收利用的廢物量？

NCUT's Environmental Commitment: Waste Disposal and Sustainability

NCUT places strong emphasis on environmental stewardship through comprehensive waste management policies. These policies are guided by four principles: compliance with laws, pollution prevention, recycling, and continuous improvement. Together, they ensure that NCUT contributes meaningfully to global sustainability efforts while maintaining a safe and eco-friendly campus environment.

1. Key Principles of NCUT's Waste Disposal Policy

1.1 Compliance with Laws and Regulations

NCUT strictly follows national and local environmental laws. All waste management activities are conducted under the supervision of the Taichung City Environmental Protection Bureau and the Environmental Protection Administration (EPA). Regular reporting and inspections ensure full compliance, with NCUT maintaining zero violations to date.

1.2 Pollution Prevention

Preventive measures are central to NCUT's strategy. The university reduces waste generation at the source, promotes eco-friendly technologies, and enforces waste segregation in all campus facilities to minimize pollution risks.

1.3 Recycling and Resource Conservation

- All academic and administrative buildings are equipped with bins for paper, plastics, glass, metals, batteries, and food waste.
- Recyclables are collected daily by trained staff and sent to certified recycling companies.
- Revenues from recyclables are reinvested into school sustainability initiatives.
- Recycling competitions and educational campaigns encourage staff and student participation.
- Between 2009 and 2023, NCUT maintained a green procurement ratio of over 95%, recognized as an Excellent Green Procurement Institution by the Ministry of Education for 15 consecutive years.

1.4 Continuous Improvement



Through routine inspections and annual reviews, NCUT refines its waste disposal procedures. In June 2022, a 13.8KW garbage compressor was installed to reduce waste volume and minimize removal frequency, lowering transport-related emissions.

2. Measuring Waste and Performance Data

NCUT systematically measures waste volumes, distinguishing between recyclable, food, hazardous, and non-recyclable waste.

- **2023 Total Waste:** 74,646 kg
- **2024 Total Waste:** 64,207 kg (a significant reduction, reflecting improved waste reduction policies)
- **Food Waste (Jan 2023 – Jun 2024):** 832 kg, with part of it converted into compost for use in campus landscaping.

This data demonstrates a clear downward trend in waste generation, achieved through paperless initiatives, improved recycling, and campus engagement.

3. Hazardous and Toxic Waste Management

Hazardous waste from laboratories and workshops is subject to strict Standard Operating Procedures (SOPs) that cover acquisition, storage, usage, and disposal.

3.1 Monitoring and Tracking

- A GPS-enabled tracking system ensures all industrial waste transport is monitored in real time.
- Waste liquids from labs are collected in dedicated secure containers and temporarily stored in safe holding areas before disposal.

3.2 Certified Disposal and Documentation

- Hazardous waste is transferred to government-certified disposal companies.
- NCUT files monthly declarations on the EPA website, detailing the types, volumes, and disposal methods of hazardous waste.
- After processing, NCUT receives a “Proper Disposal of Hazardous Industrial Waste” certificate, reviewed by the Environmental Safety Center for compliance.

3.3 Oversight and Compliance

- The Environmental Safety and Health Committee meets biannually to review hazardous waste protocols and update safety guidelines.
- To date, NCUT has had no violations of Taiwan’s Environmental Protection Act related to hazardous materials.



4. Education, Training, and Community Engagement

4.1 Student Service-Learning

Each NCUT student must complete 54 hours of service-learning before graduation. Many hours are dedicated to recycling and waste sorting, ensuring students gain hands-on experience in sustainability practices.

4.2 Environmental Education and Awareness

- Regular workshops and training sessions equip staff and students with knowledge of proper waste disposal and recycling.
- Large-scale public campaigns (banners, LED displays, and reminders near switches and bins) promote energy and waste-saving habits.

4.3 Collaboration with External Partners

- Hazardous waste disposal is conducted in partnership with EPA-certified companies.
- NCUT regularly collaborates with the Taichung City Environmental Protection Bureau to improve regional waste management strategies.

5. Sustainability and Global Responsibility

NCUT extends its waste management policy to broader sustainability goals:

1. **Circular Economy:** Recycling and composting initiatives reduce reliance on virgin resources and close material loops.
2. **Public Awareness:** Educational campaigns instill a strong environmental ethic in faculty, staff, and students.
3. **Global Stewardship:** NCUT acknowledges its role as a responsible global citizen, aligning its policies with **SDG 3, 6, 12, 13, and 15**.

NCUT's waste disposal and hazardous material management policies are comprehensive, data-driven, and sustainability-focused. By combining legal compliance, pollution prevention, recycling, hazardous waste tracking, student engagement, and continuous innovation, NCUT has created a robust framework for environmental stewardship.

The measurable reduction in waste from **74,646 kg in 2023 to 64,207 kg in 2024**, along with safe handling of toxic waste and active participation of the campus community, highlights NCUT's leadership in sustainability. These efforts demonstrate the university's commitment to building a **cleaner, safer, and greener future** for both its local community and the global environment.

2024 Inorganic waste statistics table

Kg

Item	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Paper	2221	2457	2208	1872	2219	3279	3387	6098	3630	2576	2739	3002	35688
Iron	292	480	343	372	205	176	99	700	165	175	178	186	3371
Alumiun	60	11	70	86	32	21	14	3	21	35	30	32	415
electric wire	33	16	4	0	1	0	0	0	0	0	0	0	54
PET bottle	163	91	284	337	351	276	208	110	249	418	581	431	3499
Plastic (fine)	155	80	163	200	130	162	84	67	95	162	209	161	1688
Plastic (coarse)	40	120	48	31	15	30	35	23	36	17	43	29	467
Glass	180	174	142	217	152	109	100	123	142	138	175	202	1854
Keyboard	59	53	11	10	16	9	22	61	89	28	40	99	497
Aluminum foil package	236	90	344	389	430	228	118	46	194	359	364	290	3088
Bettary	2	3	0	0	0	3	0	2	0	0	0	0	10
Light tube	11	32	6	4	7	10	5	5	7	15	3	10	115
paper tableware	657	283	923	1048	1211	757	501	207	659	1274	1923	2084	11527
Plastic tableware	74	48	146	162	236	189	108	57	174	227	245	222	1888
Styrofoam container	0	0	0	1	15	1	13	0	0	1	4	0	35
CD	16	1	0	1	0	2	6	0	0	3	0	2	31
Total	4,199	3,939	4,692	4,730	5,020	5,252	4,700	7,502	5,461	5,428	6,534	6,750	64,207

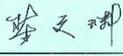
NCUT has installed a 13.8KW garbage compressor (as shown in the picture) in June 2022 to reduce the number of garbage removals




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環境政策

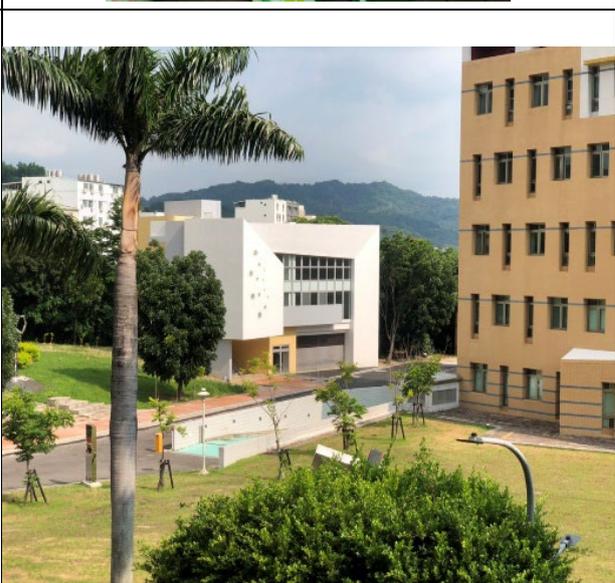
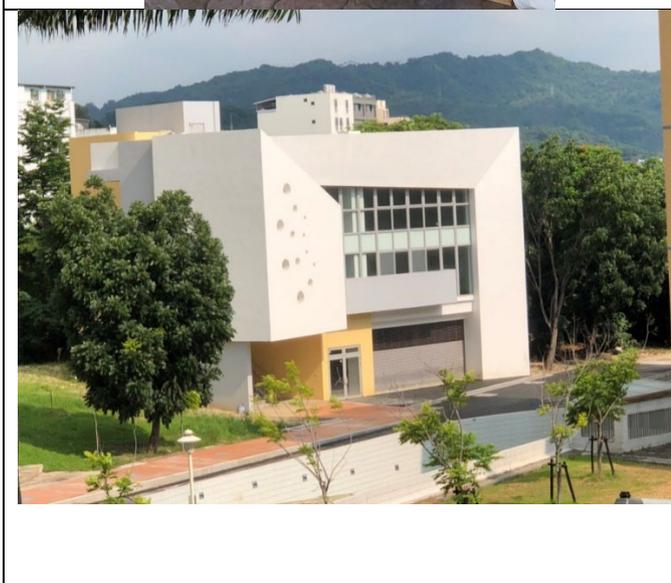
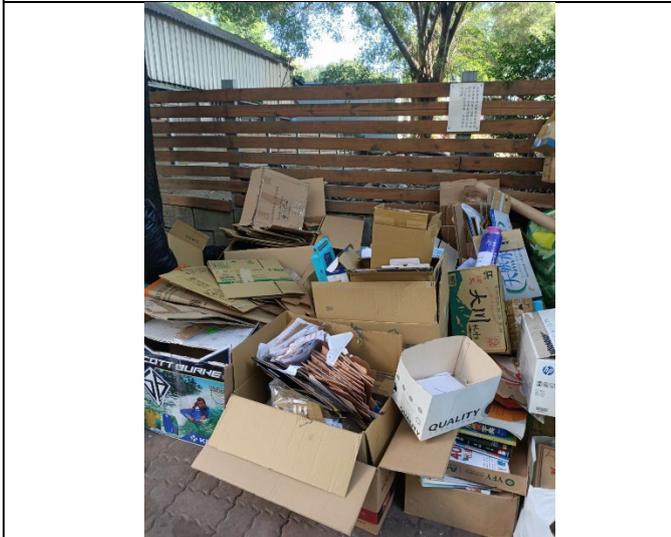
本校秉持「遵守法規」、「污染預防」、「循環利用」及「持續改善」之環保理念，承諾恪守政府環保法令，定期查核，有效執行污染預防與防治，加強教育訓練，以提昇全員環保意識，並落實持續改善之精神，並戮力提昇環境品質，以善盡地球村一份子之責任。

校長 

中華民國 108 年 1 月 10 日



NCUT has established resource recycling bins in every building across the campus, with daily collection of recyclable items by cleaning staff. Additionally, the school regularly counts and recycles inorganic waste, ensuring effective waste management and contributing to environmental sustainability.



NCUT's Resource Recovery Building

一次用飲料杯

限制使用對象及實施方式

材質限制

塑膠限用
112年 10/1起
連鎖飲料店、非連鎖飲料店
不得提供一次性塑膠飲料杯
(包含生物可分解塑膠材質之PLA杯)

減量管制

飲料杯自備優惠
連鎖飲料店、連鎖便利商店、連鎖速食店、連鎖超市
自備環保杯可享有新量幣至少5元(含)以上差價

循環杯借用服務
連鎖便利商店及連鎖速食店
門市數前十大直轄市、縣(市)至少5%之門市免費提供循環杯借用服務，並逐年提升供應門市比率



臺中市政府環境保護局 廣告
臺中市提供循環杯服務門市



 紙類 Paper	 鐵鋁罐 Iron and Aluminum Can	 寶特瓶 Pet Bottle
 塑膠類 Plastic	 鋁箔包 Aluminum Foil Pack	 一般垃圾 General Trash





Waste recycling bins and recycling place at the campus



NCUT's Resource Recovery Building