Sustainable
Development
Goals



National Changhua University of Education

Sustainable Development Annual Report

2026 NCUE Sustainable Development Annual Report

NATIONAL CHANGHUA UNIVERSITY OF EDUCATION

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This summary presents NCUE's 2026 annual sustainability report.
Full details are available at https://sdg.ncue.edu.tw/index.php.

Foreword

The Power of Education in Addressing Shared Global Challenges

Founded in 1971 with teacher education at its core, National Changhua University of Education (NCUE) gradually transformed between 1999 and 2004 into a comprehensive university with seven colleges spanning education, liberal arts, science, social sciences and physical education, technology, management, and engineering. For more than half a century, "cultivating talent and serving society" has remained our founding commitment. Today, as climate change, social inequality, and technological transformation intersect, this commitment is finding new expression through sustainable development.

In the 2025–2026 academic year, NCUE enrolled 8,735 students, up steadily from 8,385 in 2019–2020. Its new-student registration rate reached 97.30%, ranking 13th among Taiwan's national universities, and in 2025 the University Fund's total revenue reached a record high, exceeding NT$2 billion. Developing the Jinde and Shida campuses in parallel enables NCUE to bring its educational expertise and interdisciplinary technological capabilities to sustainability issues, extending this work through local and international collaboration.

NCUE's sustainability efforts have earned continued recognition in Taiwan and internationally. In THE Impact Rankings 2026, NCUE ranked in the 301–400 band among 1,646 participating universities worldwide and 18th in Taiwan. It ranked first nationally in SDG 1, SDG 5, and SDG 10, second in SDG 4, and third in SDG 6 and SDG 7, with SDG 7 climbing to 65th worldwide. In Taiwan, NCUE also ranked first among medium-sized public universities in the 2026 CommonWealth University Citizen Award, and annual funding for its University Social Responsibility (USR) projects was the highest among Taiwan's teacher-education universities.

NCUE uses all 17 Sustainable Development Goals to review its investments and outcomes, putting sustainability into practice in teaching, gender equality, health, and the environment. In educational outreach, the Ministry of Education has approved NCUE to launch a publicly funded master's program for STEM teacher education, making it one of only two universities in Taiwan piloting the program to prepare mathematics, science, and information technology teachers for secondary schools. Through initiatives such as the Schweitzer Educational Service Program, pre-service teachers work in rural classrooms to narrow learning gaps between urban and rural communities. Environmental education certification courses and research projects bring water conservation, wetland ecology, and climate change into coursework and field inquiry, turning educational expertise into practical service to local communities. From everyday campus life to rural classrooms, NCUE turns every goal into concrete action and keeps expanding its positive impact on society and the environment.

This report presents selected achievements across SDG 1 to SDG 17 for NCUE's 2026 reporting year. In a concise format, it shows how NCUE advances sustainability through education, using specific cases and data to demonstrate outcomes in education, social care, and environmental sustainability, and it serves as a reference for understanding our progress and guiding future action. Full details are available on NCUE's SDGs website (https://sdg.ncue.edu.tw/index.php). We invite readers to consult the report and welcome your comments and suggestions.

National Changhua University of Education

President Ming-Hsi Chen

SDG 1

No Poverty



National Changhua University of Education

2026 NCUE Sustainable Development Annual Report

SDG 1 No Poverty

No Poverty | SDG 1

Education, Aid, and Entrepreneurship Support for Equitable Opportunity

Centered on poverty eradication and educational equity, National Changhua University of Education (NCUE) builds a support system spanning admission, enrollment, learning, careers, and local entrepreneurship. In 2025, it provided economically disadvantaged students with tuition, work-study, and scholarship aid, and eased study burdens through housing, living, and emergency assistance. Diverse admission pathways and the Soaring Eagles Project help low-income students complete their studies. Combined with University Social Responsibility (USR), government, and industry resources, NCUE also supports local youth startups, corporate low-carbon transition, and international student employment, expanding social mobility and economic independence.

Key Figures

1,251	NT$34,397,252	95
Instances of financial aid to economically disadvantaged students	**Total grants and subsidies disbursed**	**Disadvantaged students admitted in 2025**

Highlights at a Glance



2025 Science Fun Day

Sharing Educational Resources to Reduce Poverty and Learning Barriers

Science education outreach, cross-school collaboration, and transportation subsidies for rural schools reduce economic and geographic learning barriers. In 2025, Science Fun Day drew over 500 participants, with about NT$350,000 in subsidies for rural schools' transportation, giving disadvantaged students access to quality education and university resources, expanding their opportunities and promoting social mobility.

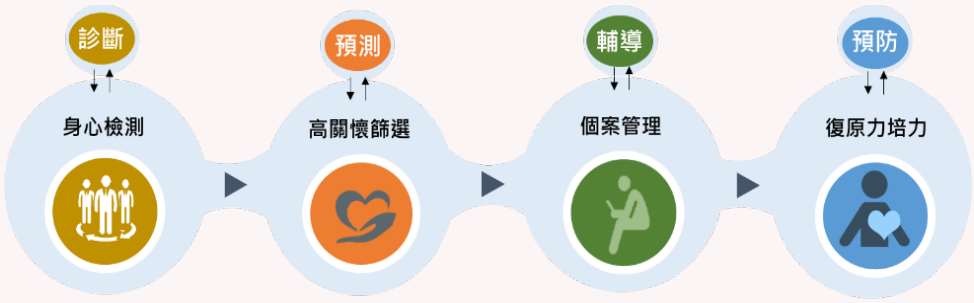
Educational Opportunities and Economic Support: Lowering Barriers for Disadvantaged Students

NCUE combines tuition subsidies, work-study grants, and on-campus scholarships to support economically disadvantaged students. In 2025, 1,251 instances of aid totaled NT$34,397,252: tuition subsidies (826 instances, NT$25,997,026), work-study (71, NT$3,403,426), and scholarships (354, NT$4,996,800). NCUE also offered 214 admission quotas for disadvantaged students and admitted 95. As of July 2025, 381 students from the lowest-income 20% of families were enrolled, about 5.16% of all students.

Beyond tuition aid, NCUE offers living, emergency, and housing support under the Ministry of Education's disadvantaged student program. In 2025, a total of 6,005 instances of assistance were provided, amounting to NT$52,640,801. Key components included living stipends for 26 recipients (NT$3,000 per month), emergency relief grants for 15 recipients (capped at NT$30,000 each), and accommodation subsidies for 5,138 recipients (totaling NT$25,585,775), among others. Low-income students live in campus dorms free of charge, and middle-to-low-income students get housing priority. Ministry housing subsidies are deducted directly from dorm bills, covering up to NT$7,000 per semester for economically disadvantaged students.

Support Area	Key Measures
Economic Support	Tuition subsidies, work-study, on-campus scholarships
Admission for Disadvantaged Students	Priority admission, Soaring Eagles groups, indigenous quotas, separate admission for students with disabilities

Learning Support and Career Development: Helping Disadvantaged Students Graduate and Enter Employment



Targeted Counseling Concepts

Through mentored learning, versatile skills training, global competency programs, research projects, achievement packages, and freshman aid, NCUE helps economically disadvantaged students set learning goals and build career skills, with monthly rewards of NT$6,000–12,000. In 2025, 81 of 150 disadvantaged graduates (54%) came from the lowest-income 20% of families; 30 of them received Soaring Eagles Project guidance and NT$861,000 in incentive grants. Overall, 12 guidance measures across four areas served 2,172 instances and disbursed NT$13,005,000. By share of participations, learning guidance led at 61.83%, followed by psychological (25.87%), life (12.01%), and career guidance (0.27%).

International Support: Connecting Education, Employment, and Economic Independence



Kura Sushi Asia Co., Ltd. Company Briefing Session



Career Experts Providing Résumé Writing Consultations for Students

For international students from low-income or lower-middle-income countries, NCUE provides support including Grants for Overseas Taiwanese Students in Financial Need, the Foreign Students Scholarship, tuition and miscellaneous fee reductions, the TEEP program, and the New Model Program. In 2025, NCUE provided financial assistance to a total of 402 students, with subsidies totaling NT$17,737,248. Through the Career Guidance Program for International Students, NCUE also offers Chinese language learning, career counseling, résumé reviews, mock interviews, enterprise visits, and job matching services. Throughout the year, a total of 35 activities were organized, with 612 cumulative participants, and over 100 one-on-one career counseling sessions were provided. Tracking results show that 30 international graduates have remained in Taiwan for employment and 16 for further studies.

Local Entrepreneurship: Boosting Economic Resilience via USR and Collaboration



Caohu Junior High School Wins Outstanding Excellence Award for Innovative Marine Education Teaching Team

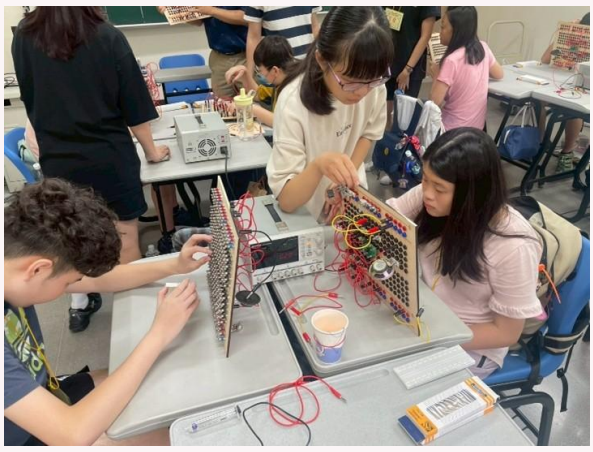
Deepening Local Education Partnerships for Marine Education Innovation

NCUE has long partnered with Caohu Junior High School. Through USR projects and industry-academia collaboration, it combines teacher education, science education resources, and local sites such as Wanggong Fishing Port and Hanbao Wetland to build teachers' innovative teaching capacity. The partnership won a national Outstanding Excellence Award for Innovative Marine Education Teaching Team, strengthening local talent, community sustainability, and resilience.

Through the "Resilient Changhua Coast" and "Sustainable Changhua" USR projects, NCUE combines government, industry, and cross-disciplinary expertise to offer local teams startup coaching, resource matching, branding, technical support, and low-carbon transition help. In 2025, it helped local firms adopt energy audits, carbon inventories, and reduction strategies, and ran 34 green and ESG courses (1,102 participations; 30 certifications). The Innovation Incubation Center also coached 44 local firms, 6 of which secured government funding, lowering barriers to entrepreneurship and transition and strengthening local industry competitiveness and sustainability.



Training Citizen Scientists to Participate in Wetland Monitoring



Green Energy Education Course

Rural Education Outreach: Training Teachers, Narrowing the Urban-Rural Learning Gap



Baisha Education Alliance Signing Ceremony



Guidance Course at Junior High and Elementary School

NCUE implements the USR Project "NCUE x Common Good – Rural Education Service and Research Promotion Project," partnering with 8 rural schools across Changhua, Yunlin, Taichung, and Tainan, and with National Taichung University of Education and National University of Tainan in the Baisha Education Alliance to pool university, local government, and school resources. Summer 2025 week-long camps served 247 students and gave 69 pre-service teachers hands-on teaching experience. Career exploration assessments and individual interviews helped 47 disadvantaged students at 2 partner schools complete Personal Future Plans. The project also advances inclusive education training and lesson design, strengthening rural students' learning, career, and inclusion skills and promoting equal educational opportunity.

Conclusion: Expanding Sustainable Impact through Partnership Networks

Grounded in educational equity, NCUE will keep working with government, industry, communities, and international partners to strengthen support mechanisms spanning admission, enrollment, learning, and career development. It will deepen targeted counseling, financial aid, and career transition support for low-income and disadvantaged students, and expand USR and industry-academia collaboration to help local youth startups, industrial low-carbon transition, and international students' economic independence. By integrating education, resources, and partnerships to reduce economic and geographic barriers and promote social mobility, NCUE will continue to advance the core spirit of SDG 1, "No Poverty."

SDG 2

Zero Hunger



National Changhua University of Education

2026 NCUE Sustainable Development Annual Report

SDG 2 Zero Hunger

Zero Hunger | SDG 2

From zero food-safety incidents to zero waste: making safe eating part of everyday campus life

National Changhua University of Education (NCUE) pursues zero hunger through four strands: food-safety governance, food-waste reduction, hunger intervention, and local food and agriculture. In 2025 the two campus cafeterias produced 5.2 metric tons of food waste, an average of 2.44 g per student or staff member per meal service day — 22.8% below the 3.16 g recorded in 2021. The University has had no food-poisoning incident for six consecutive years since 2020, with 79 catering hygiene inspections in 2025. Free campus meal vouchers helped 156 students at a cost of NT$825,100, and the Resilient Changhua Coast USR project took water-quality testing and friendly-aquaculture knowledge into coastal communities in Changhua.

Key Figures

2.44 g	0	156
Average food waste per person per day	**Food-poisoning incidents since 2020**	**Students receiving free meal vouchers in 2025**

Highlights at a Glance



The NCUE Lions Club donates to the Campus Caring Meal Voucher Programme, received by President Ming-Fei Chen

No student should go hungry for lack of money

The Campus Caring Meal Voucher Programme has run since 2009. Donations from alumni, staff and the public have helped several hundred economically disadvantaged students eat regularly for more than a decade. In 2025 it gave free vouchers to 156 students at a cost of NT$825,100, so that they could study without worrying about food.

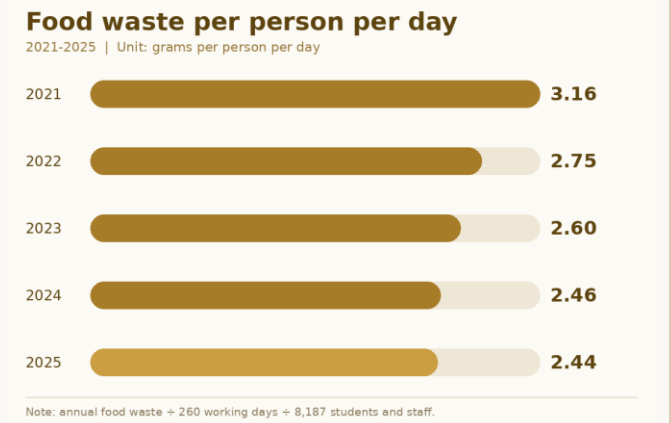
Zero Waste and Zero Food-Safety Incidents: Managing Every Meal



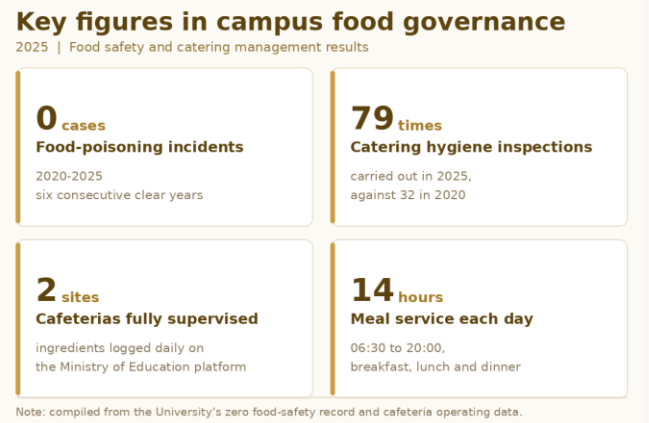
Serving counters at the campus cafeterias: standardised preparation and small portions cut leftovers at source

The University measures and manages the daily food waste of both campus cafeterias. Total food waste in 2025 was 5.2 metric tons, or 0.020 metric tons a day. Across a campus population of 8,187 — 7,383 students and 804 employees — that is 2.44 g per person per day, 22.8% below the 3.16 g recorded in 2021. Reduction measures include nutrition education, preparing ingredients to expected diner numbers, adjusting menus in response to waste levels, and clearing leftovers through limited-time discounts. Sorted food-waste bins are emptied daily for resource recovery, and all of this waste is counted in the figures above. The cafeterias are encouraged to use produce from local smallholders, and the “Eat for Impact / Sustainability Starts on the Plate” Rainbow Whole-Food Clean-Plate Programme asks students and staff to choose natural, appropriately portioned whole foods. Ingredients nearing their use-by date become “light meal boxes” or “coin-price bento boxes”.

Food safety follows the three-tier campus food safety and hygiene management system. NCUE's Food Management Committee coordinates work across units, a dedicated professional registered nurse inspects the catering premises every week, the Changhua County Public Health Bureau audits each semester, and the Ministry of Education makes an on-site advisory visit each academic year. Ingredients are registered on the Ministry's Campus Food Ingredients Registration Platform; produce carrying Traceable Agricultural Products (TAP) or Certified Agricultural Standards (CAS) marks is preferred, and genetically modified fresh ingredients are prohibited. Since 2014 the University has also run regular training for food-service workers and kept food-safety SOP checklists. Inspections rose from 32 in 2020 to 79 in 2025, with no food-poisoning incident in those six years.



Average daily food waste per person has fallen year on year



Key figures in campus food governance

Available and Affordable: Vouchers, Low Prices and All-Day Meals





Campus caring meal vouchers and the cafeteria food court: care that runs from financial support to everyday meals

To help students facing hardship through family circumstances or unexpected events, NCUE has adopted the Guidelines for Applying for the Wang Jin-pyng Emergency Relief Fund for Students in Financial Need and Campus Meal Vouchers. The form is published on the University website, and an approved voucher can be used at any counter in the campus cafeterias. The scheme has run since 2009 and now draws more than a hundred applications a year; in 2025 it gave free vouchers to 156 students at a cost of NT$825,100, funded by the University budget and by donations from alumni, staff and the public. Healthy eating is also built into student care, with plant-based and vegetarian options, a fruit-and-vegetable bar, pairing suggestions at the serving counters and dietitian-led activities.

Catering is varied and available for long hours. Both cafeterias open from 06:30 to 20:00, serving meals for 14 hours a day: Chinese buffet dishes, set meals, waffles, a fruit and ice-dessert bar and local snacks. Self-service buffets separate plant-based and meat dishes and display calorie information, and vending machines across the campuses and residence halls cover the closed hours. Prices are supervised under the Student Cafeteria Premises Lease Contract and the Guidelines for the Organisation of NCUE's Food Management Committee: meals are cooked on the day of service, vendors clean the premises daily, and unit prices are displayed on acrylic boards. A satisfaction survey each semester turns feedback into improvements — a convenience store on the Shida Campus in 2021, the Residence Hall 10 cafeteria in 2023 and a coffee shop in 2026.

Food and Farming Together: Taking Food-Safety Knowledge into Coastal Communities



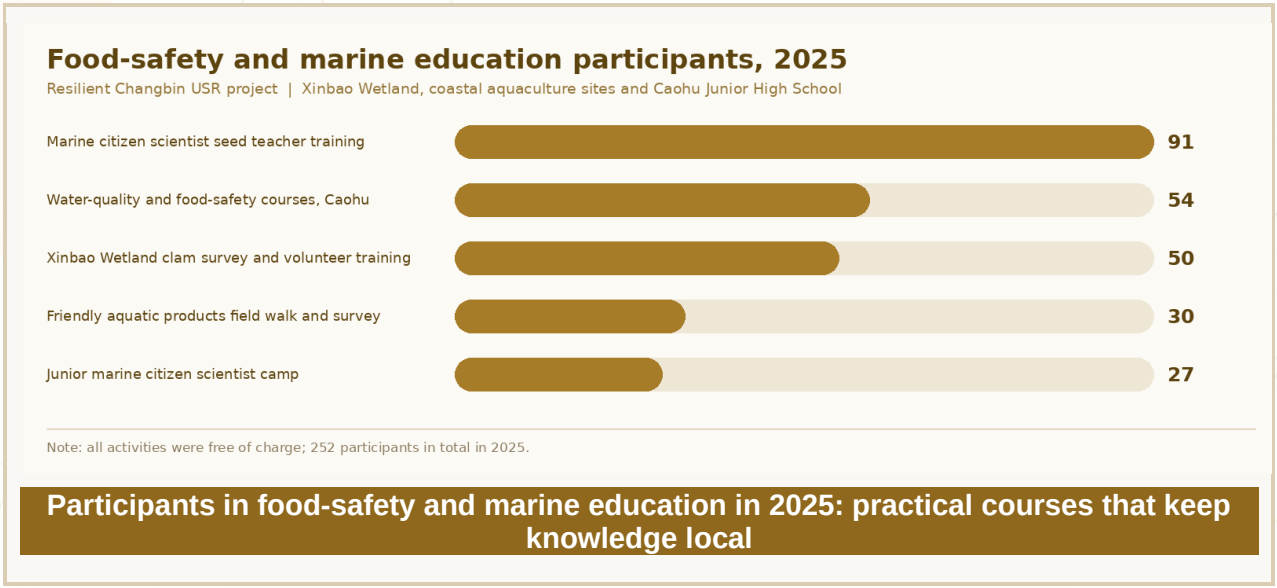
Practical water-quality and food-safety courses at Caohu Junior High School



Environmentally friendly aquatic products field walk and survey

Under the fourth-phase University Social Responsibility (USR) Project “Resilient Changhua Coast: Climate Change and the Sustainability of Changhua's Coastal Environment and Industries”, and with the 2025 Local Marine Conservation Stewardship Project – Changhua Coastal Meretrix lusoria Habitat Survey, Conservation and Restoration Promotion Programme, NCUE runs free educational activities at the Xinbao Wetland in Fangyuan Township, at coastal aquaculture sites and at Caohu Junior High School. In 2025 these comprised four clam habitat surveys and volunteer training sessions at the wetland (50 participants), three seed-teacher courses for marine citizen scientists (91), one junior camp (27), practical courses at Caohu on water analysis and marine bacteria testing (54), and a field walk and survey of environmentally friendly aquatic products in June (30). The Department of Biology's laboratories and the Department of Geography's regional planning

research have long supported farming and fishing in Changhua, and the project gives coastal aquaculture operators free access to university laboratories and testing services.



Participants in food-safety and marine education in 2025: practical courses that keep knowledge local

Food and agriculture education is also taking root on campus. Since 2025 the “Talking Changhua” forum series has covered Changhua snack food culture, a hundred possibilities for food, and “People Who Came Home: Young Farmers and Stories of the Land”. The Indigenous Student Resource Center held the “Indigenous Market Music Festival”, where Indigenous vendors promoted local organic produce, and ran the lecture “Indigenous Peoples' Knowledge of Food” on wild-vegetable culture and Traditional Ecological Knowledge. Student clubs and general-education courses also take part in campus plant-based food promotion and food-bank volunteering. NCUE produced 2,084 graduates in 2024–25, of whom 47, or 2.26%, came from agriculture and aquaculture programmes.

Conclusion: Every Meal a Start for Sustainability

National Changhua University of Education will keep deepening its work on zero hunger through food-safety governance, food-waste reduction, hunger intervention, and local food and agriculture. On campus, the three-tier food safety system and the satisfaction feedback mechanism will hold the record of zero food-poisoning incidents, while standardised preparation and portion adjustment keep food waste per person falling. Off campus, the USR project will keep leaving knowledge of water-quality testing, friendly aquaculture and food safety with coastal communities, schools and aquaculture operators.

SDG 3

Good Health and Well-being



National Changhua University of Education

2026 NCUE Sustainable Development Annual Report

3 Sustainable Development Goals

SDG 3 Good Health and Well-being

Good Health and Well-being | SDG 3

Connecting global, national and local partners to build a healthy campus

The University places the Health Promoting School concept and university social responsibility at the core of its work, advancing health and well-being through international academic collaboration, national health policy engagement and local medical networks. It works with the University of Hong Kong and Malaysian arts and education institutions, joins national mental health and substance abuse prevention programmes, and with the Council of Indigenous Peoples and the Changhua County Public Health Bureau established the Ying-Yu NCUE Cultural Health Station, the first at any national university in Taiwan. In 2025 health care services totalled 9,843 visits, individual counselling 4,564 sessions, and 35 health promotion activities drew 10,532 attendances.

Key Figures

9,843	4,564	10,532
Annual total of health care services for students and staff	**Individual counselling sessions for students**	**Attendances at health promotion lectures and activities**

Highlights at a Glance



Scholars from many countries gather for international dialogue on health and trauma healing

Global Co-Creation: A Transnational Network for Health and Psychological Healing

With global partners including the University of Hong Kong, arts and education institutions in Malaysia and the International Expressive Arts Therapy Association, the University deepens cross-border collaboration in health care and psychological healing through conferences, inter-institutional visits and overseas placements.

Global Co-Creation: Connecting Global Partners through Research and Exchange





Malaysian artists create healing murals on campus

The College of Education, the Department of Guidance and Counseling and the Taiwan Expressive and Creative Arts Therapy Association jointly hosted the international conference "Intrabrain and Interbrain: Loss, Trauma and Expressive and Creative Arts Therapy", addressing trauma-informed neuroscience, crisis debriefing and mental health. Artists from the Malaysian International Creative Alliance then created four healing murals on life education with students from Indonesia, India and Pakistan and signed a memorandum of understanding. A further conference with the International Expressive Arts Therapy Association drew nearly 300 specialists from 22 countries.

Transnational Health Collaboration

Global co-creation in health and psychological healing | 2026

22 countries
Represented at the IEATA conference
Nearly 300 specialists in expressive arts therapy took part

4 murals
Healing murals co-created
Life education with students from Indonesia, India and Pakistan

1 conference
International conference hosted
"Intrabrain and Interbrain: Loss, Trauma and E-CAT", April 2026

1 MOU
Memorandum with Malaysian partners
Continuing art-based life education and psychological support

Note: selected outcomes of the University's global health collaboration.

Transnational health collaboration: outcomes of global co-creation

Global Partners in Health and Healing

Core international collaborators, 2026

University of Hong Kong
Keynote on trauma-informed neuroscience, crisis debriefing and mental health

Taiwan Expressive and Creative Arts Therapy Association
Co-host of the 2026 international conference on loss, trauma and E-CAT

Malaysian International Creative Alliance and Art Association
Campus mural co-creation on life education and a signed memorandum of understanding

International Expressive Arts Therapy Association
Co-hosted international conference drawing specialists from 22 countries

Note: partners engaged through conferences, reciprocal visits and overseas placements.

Global partners in health and healing

Partnership in Governance: Local Medical Networks and Long-Term Care Talent Development





The Ying-Yu NCUE Cultural Health Station opens; memorandum signed with Changhua Christian Hospital

The Indigenous class in health promotion and care management for older adults works with government health authorities and the local medical system to cultivate elder-care professionals. With the Council of Indigenous Peoples and the Changhua County Public Health Bureau, the University established the Ying-Yu NCUE Cultural Health Station, the first campus cultural health station at any national university in Taiwan, offering urban Indigenous elders health measurement, fitness assessment and activities that delay disability. A memorandum with Changhua Christian Hospital adds clinical placements, NT$150,000 in admission awards and NT$300,000 in scholarships, and hospital specialists delivered 389 free friendly-clinic visits in 2025.

Partnering with Changhua Christian Hospital

Outcomes of the long-term care talent development memorandum | 2025

NT$150,000
Admission awards for students
Donated by the partner hospital

NT$300,000
Scholarships for diligent students
For the Indigenous care class

389 visits
Free campus friendly clinic
Provided every semester, 2025

Note: collaboration with a medical centre-level partner hospital.

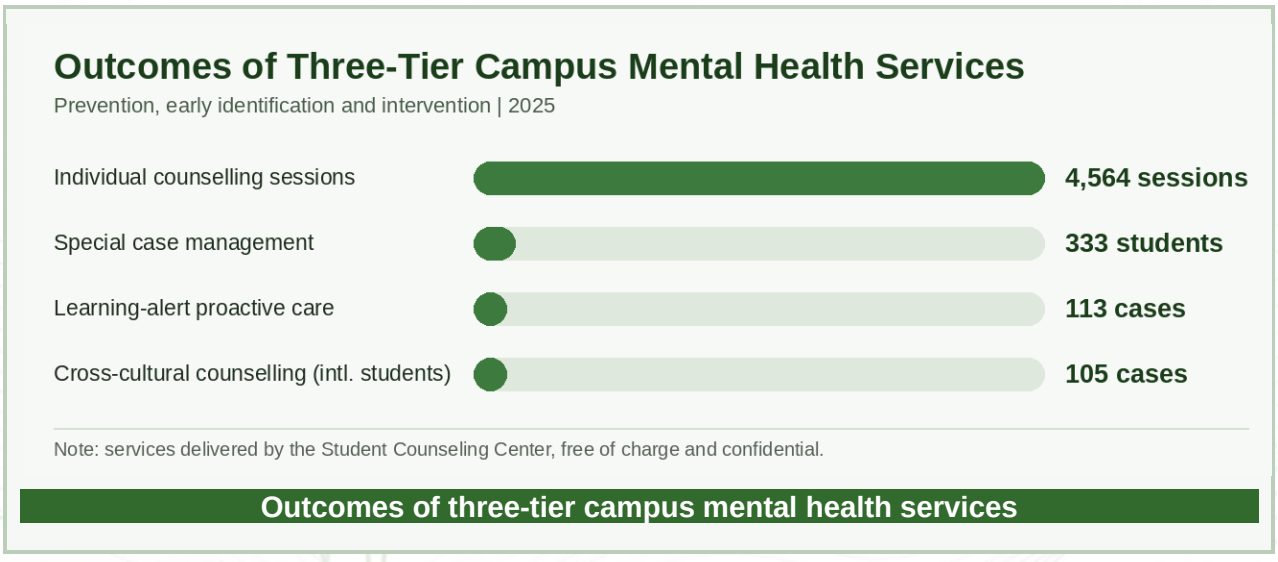
Cultivating long-term care professionals with Changhua Christian Hospital

Health Outreach: From Campus into the Community and Care for Vulnerable Groups



Social work placement presentations by counselling students

Each year, NCUE's Department of Guidance and Counseling sends senior students to local social welfare and health institutions to complete a 160-hour social work outreach internship. In December 2025, 20 students presented their practical outcomes across fields including child and youth protection, women's healthcare, forensic social work, and suicide prevention. In addition, 17 students took part in the "Spark to Flame" (Weiguang Chengju) program, working in community mental health, children, youth, and vulnerable families, and urban Indigenous women's health. NCUE also provides free, confidential mental health support services on campus through a three-tier prevention model. The outcomes of NCUE's 2025 three-tier mental health prevention services are summarized as follows:



Outcomes of three-tier campus mental health services

Gender Equity and a Smoke-Free Campus



Smoke-free campus signage across both campuses



Free "Screen for I" testing on campus

Screening services for HIV and STDs have been expanded year by year alongside the promotion of gender equality education; 86 students voluntarily participated in a free screening event in May 2026, and a series of activities held for "Gender Equality Education Day" in the 2025 academic year attracted 696 participants. The University also launched Taiwan's first smoke-free restaurant certification, with twenty local businesses signing a no-smoking pledge. Under the Ministry of Education's service-learning programme for substance abuse prevention, 99 volunteers completed anti-drug outreach at eight schools in 2025, reaching 1,058 teachers and pupils.

Conclusion: Safeguarding Whole-Person Well-Being through a Health Partnership Network

With the Health Promoting School concept at its core, the University deepens global academic collaboration, health policy engagement and local medical and community partnerships, while strengthening the governance of mental health, gender equity and a smoke-free campus. It will expand transnational health exchange, long-term care talent development for Indigenous communities and community health services in fulfilment of its SDG 3 commitment.

SDG 4

Quality Education

National Changhua University of Education

2026 NCUE Sustainable Development Annual Report

4 Sustainable Development Goals

SDG 4 Quality Education

Quality Education | SDG 4

Rooting Teacher Education, Cultivating Educational Strength — Partnering with Local and Remote Communities to Achieve Educational Equity for All Ages

NCUE draws on its leadership in secondary teacher education and deepens cross-sector partnerships with government, industry, academia and research institutions, extending educational resources from campus to communities both nationwide and locally. Since 2018, the University has invested over NT$89.59 million to help disadvantaged students study with peace of mind; its Soaring Eagles Project gave comprehensive support to first-generation students, who made up 33.89% of the new intake, helping them break through social barriers; and by integrating its Senior University, rural outreach programmes and open digital platforms, NCUE fully realises an inclusive, equitable and diverse vision of lifelong learning that strengthens its sustainable social impact.

Key Figures

3,399	33.89%	2,263
Newly inducted teachers trained nationwide	**Share of first-generation students in new intake**	**Participants in vocational and lifelong-learning outreach**

Highlights at a Glance



Lighting Up Rural Education: NCUE Pre-Service Teachers' Schweitzer Project

Reaching Rural Communities, Advancing Educational Equity

Each year, NCUE faculty and pre-service teachers walk together into rural communities, turning educational love and social responsibility into action through the Baisha Summer School, the Schweitzer Service Project and the USR "Rural Common Good" initiative in rural junior high schools. These self-organised teams bring inquiry-based, bilingual learning to under-resourced classrooms, help students build a strong foundation, and forge a mutually supportive bond between campus and community — a concrete practice of educational equity.

Deepening Secondary Teacher Education: AI and Open Classroom Observation Drive Instructional Innovation



Recharging on Campus: Return-to-Campus Forums Launching Teaching Careers

NCUE fulfils its national mission in secondary teacher education through a four-dimensional curriculum map. To meet the rise of AI, it held 23 AI-enabled teaching workshops, 83 industry co-teaching sessions (2,082 attendances), and 115 open lesson observation and discussion sessions with 21 partner schools, plus 8 internship return-to-campus seminars (831 attendances) — linking theory to practice from pre-service training through the internship and cultivating reflective, innovative teachers. In 2025 it also ran the Ministry of Education's "Induction and Practice Programme," training 3,399 newly inducted junior and senior high school teachers online and in person to help them settle confidently into the classroom.

For in-service teachers, NCUE ran 39 courses in 2025 spanning living technology, IT, bilingual education, performing arts and special education — 1,836 hours, 981 attendances. Faculty also contributed directly: Science Education staff led STEM cross-disciplinary training, and Electrical Engineering staff led green-energy lectures and teacher communities — together supporting teachers' professional growth and the new curriculum's implementation.



Special Education Teachers Deepen Expertise in Diverse Student Support

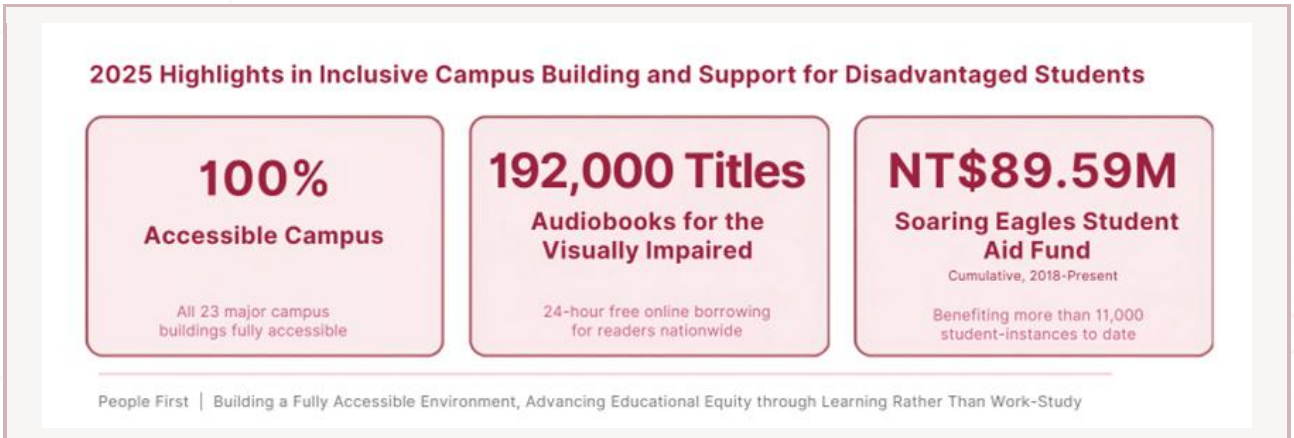


Living Technology Teachers Hone Skills, Inspiring a Maker Mindset

Barrier-Free with Love: Full Accessibility and Comprehensive Support for Disadvantaged Students

NCUE actively practises educational equity and social inclusion, embedding care for students with disabilities and support for disadvantaged students into campus governance. All 23 of the University's major buildings are fully equipped with accessible facilities, a 100% accessibility rate. Its Audio Resource Service for the visually impaired serves readers nationwide, holding more than 192,000 audiobook titles with 24-hour free online borrowing and customised textbook recording services. NCUE also provides special-education consultation, on-site school visits and transition support, removing barriers to learning of every kind.

For economically and culturally disadvantaged students, the Soaring Eagles Project provides support at every stage: travel and registration-fee subsidies for entrance exams, tuition and fee waivers during enrolment, guaranteed full-coverage housing, targeted psychological and academic counselling, and emergency student assistance grants of up to NT$100,000. Since it began in 2018, the project has invested more than NT$89.59 million in aid for disadvantaged students, benefiting over 11,000 recipients; in 2025 it precisely supported 811 economically disadvantaged students to study with peace of mind, meaningfully advancing upward social mobility.



2025 Highlights: A Friendly Campus and Support for Disadvantaged Students

Learning for All Ages: Building a Cross-Generational, Diverse Lifelong-Learning Network



**2025 Women's Leadership Academy –
A Platform for Changhua County's Women Leaders**

NCUE is committed to lifelong learning for all, building an educational system that spans children, youth, working adults and older residents. For children and youth, it runs a Minecraft coding camp and a research programme for high-school students in mathematics and science, alongside foreign-language and Mandarin courses that foster local and international cultural exchange. For adults and working professionals, it regularly offers courses in business management, information technology, handicrafts and professional

certification, and runs the Women's Leadership Academy each year to cultivate outstanding female business leaders in the local community; in 2025 it also launched the Changhua County Labor University, prioritising jobseekers and workers on reduced hours. For older residents, its Senior University ran 28 classes with 893 completions, incorporating smartphone literacy and anti-fraud education — fully realising a sustainable vision of educational equity for every age.



2025 Science Fun Day - Science Experiment



Community Senior University - Calligraphy Class,

Conclusion: Uniting Teacher Education Excellence with Inclusive, Sustainable Lifelong Learning

National Changhua University of Education will continue to pursue “Teacher Education Excellence” and “Walking Alongside Society” as its two core commitments, deepening sustainable partnerships with government agencies, schools, local communities and the international academic community. Facing the rise of generative AI, climate change and shifting demographics, NCUE will keep strengthening in-service teachers' professional competence while drawing on the University's academic and digital capacity to support the implementation of school curricula and the needs of rural education. Looking ahead, NCUE will continue building a zero-barrier open education platform, deepen its lifelong-learning system for every age, and expand its support network for first-generation and disadvantaged students — making education a stable foundation for social mobility and the well-being of all, and fully realising the sustainable vision of SDG 4: “ensure inclusive and equitable quality education and promote lifelong learning opportunities for all.”

SDG 5

Gender Equality



National Changhua University of Education

2026 NCUE Sustainable Development Annual Report

SDG 5 Gender Equality

Gender Equality | SDG 5

Embedding gender equality through policy, curriculum and campus-wide support

NCUE's Gender Equity Education Committee, chaired by the President, embeds a gender perspective systematically across admissions, teaching, research, human resources and the campus environment. Among those receiving degrees in 2025, the number of first-generation female degree recipients reached 107, accounting for 49.08% of the total 218 recipients;143 gender-related courses worth 293 credits recorded 3,966 enrolments; and staff and students attended 87 CEDAW training sessions with 1,422 attendances. For a fifth consecutive year NCUE was a partner institution of the Ministry of Education's Gender Mainstreaming Resource Centre, and in the same year was commissioned to establish the Central Taiwan Regional Centre for Gender Equity Education, extending its experience into regional capacity.

Key Figures

49.08%	143	4,123
Percentage of First-Generation Female Students	**Gender-related courses offered**	**Attendances at community gender-equality events**

Highlights at a Glance



Central Taiwan Regional Centre for Gender Equity Education

Deepening gender equality in policy and regional capacity

NCUE's Gender Equity Education Committee is chaired by the President, with the Chief Secretary as Executive Secretary, translating gender equality into policy, curriculum and campus practice. Since 2024 NCUE has been commissioned by the Ministry of Education to run the Central Taiwan Regional Centre for Gender Equity Education, helping universities in the region strengthen their gender equity committees. For a fifth consecutive year NCUE also piloted gender mainstreaming with National Taiwan University, Chung Shan Medical University and ten other institutions, advancing gender statistics, analysis, budgeting and training, so that experience built on campus becomes shared regional capacity.

Institutional foundations: gender mainstreaming across university governance



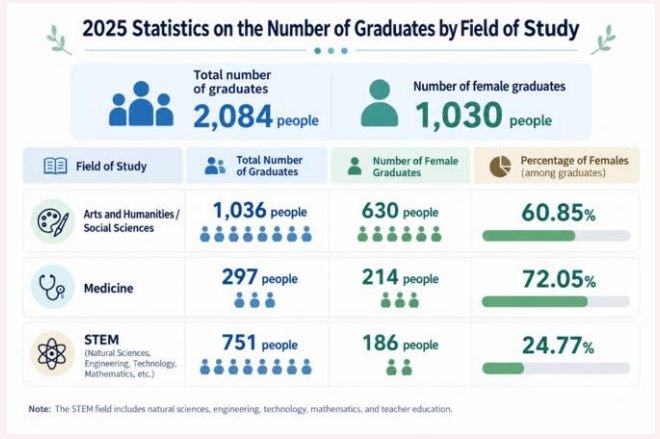


Gender mainstreaming workshop and Gender Equality Education Day: turning policy into everyday practice

NCUE's Regulations of Gender Equity Education stipulate that appointment, admission and enrolment must not differ on grounds of gender or sexual orientation, and require active assistance for students disadvantaged because of gender; the policy was established in 2004 and reviewed in 2023. Beyond the rulebook, training turns policy into daily practice: in 2025 staff and students attended 87 online and in-person sessions on the Convention on the Elimination of All Forms of Discrimination against Women (CEDAW), with 1,422 attendances — two more sessions and 144 more attendances (11.27%) than in 2024. On 28 April the University held its Gender Equality Education Day around Article 10 (Education) of CEDAW, with 696 participants, reviewing how internal rules, policies and programmes affect different genders.

Inclusion extends to gender diversity and to regional collaboration. With the student gender society, the Committee delivered 22 workshops and lectures on non-discrimination towards transgender people in 2025 — 340 attendances, two more sessions and 28 more attendances than in 2024. Under the Act for Implementation of J.Y. Interpretation No. 748, NCUE reviewed all forms, information systems and web pages, replacing closed fields such as father/mother and husband/wife with open fields — legal guardian, emergency contact and spouse — across seven items, safeguarding the rights of same-sex spouses and families. Externally, nine NCUE staff sit on the Changhua County Government's gender talent pool, and with the Community Counselling Centre and the Rural and Mountain Service Teams the University supported 73 gender-equality events for local government and schools up to senior-high level, reaching 4,123 attendances, up 12.3% and 4.3% respectively. NCUE's Guidelines for Promoting Gender Equality Education Awards further recognise staff who secure NSTC or Ministry of Education funding, publish in TSSCI/SSCI journals, achieve

teaching evaluations of 4.25 or above, or publish gender teaching materials, so that gender equality is supported in research, teaching and resources.



Percentage of female graduates by field of study in 2025



Gender equality capacity: training, lectures and regional collaboration

Equal opportunity: from admission to leadership development

Gender equality governs admission, retention and financial support alike. In 2025, 991 women enrolled — 617 bachelor's, 349 master's and 25 doctoral students — 47.44% of all new entrants and 93 more than in 2024. Of these, 107 women in bachelor's programmes were first-generation university students, 49.08% of the 218 first-generation entrants at that level. The retention rate for women reached 97.3%, above the national average of 93.95%. Of 683 recipients of entrance awards and scholarships in 2025, 480 (70.28%) were women, 0.3 percentage points higher than in 2024; the Department of Guidance and Counseling also funds gender research and offers scholarships for students of minority genders.

Curriculum and career development also advance in parallel. In 2025 NCUE offered 143 required and elective gender-related courses worth 293 credits, with 3,966 enrolments. Through a campus visit programme with National Changhua Girls' Senior High School, around 420 first-year students toured the University's colleges, where demonstrations, hands-on workshops and lectures supported academic and career exploration. With the Changhua County Government and the county's investment promotion committee, the College of Extension Education ran the Women's Leadership Academy elite training programme for women leaders: 37 participants completed the course and 27 earned a three-credit in-service master's certificate in Corporate Sustainability Management. Three women faculty members were nominated as gender mainstreaming seed teachers, feeding a gender perspective back into course design; NCUE delivered 12 gender-equality research projects in 2025, two more than in 2024, and co-hosted the Gender and Climate Change series with

the Changhua County Government and Changhua Dream House, using theatre, markets and stalls to promote messages such as “Tech Development: Women Together” and “Sustainable SHE Development: Women are Essential”, Encourage female students to engage in fields where women are underrepresented, such as politics, sports, technology, and electromechanical engineering.





420 students from Changhua Girls' Senior High School on campus | She College elite training programme for women leaders

A supportive campus: enabling every student and colleague to thrive





Gender-friendly rainbow staircase | Baisha Gender Film Festival post-screening forum

A comprehensive support network responds to needs across the life course. The Student Psychological Counseling and Guidance Centre provides individual counselling and other services. In 2025, 494 women students took part in women's mentoring and counselling schemes — 14.56% of the University's 3,394 women students and 19 more than in 2024. Full-time and part-time counsellors held 23 sessions on gender, gender expression, gender identity and sexual orientation, and 68 sessions relating to gender-based violence, offering guidance on gender and relationship issues.

The educational rights of pregnant and parenting students are explicitly protected. In 2025, 29 women students suspended study because of pregnancy or childcare, 0.85% of all women students. Where students do not return within the same academic year, NCUE reminds them of the deadline and refers them to on- and off-campus postnatal and childcare resources. Article 17 of the Academic Regulations allows students to extend their period of study by up to two years for pregnancy, childbirth or raising a child under three. Statistics show that in AY2024–25 women graduated at higher rates than men in both bachelor's and doctoral programmes.



Support and care measures for women: counselling, childcare and a friendly environment

Since 2009 NCUE has issued the Caring Parking Permit — the first of its kind among Taiwan's universities — for those who are pregnant, have limited mobility or travel with young children. The campus has three breastfeeding rooms and an affiliated kindergarten, which enrolled 117 children in 2025, and 10 staff took unpaid parental leave. NCUE has also created a gender-friendly rainbow staircase and, in support of the International Day for the Elimination of Violence against Women and the White Ribbon Campaign, held the Baisha Gender Film Festival and screenings of works by leading women directors, building a campus that respects gender diversity.

Conclusion: making equality an everyday practice

NCUE will continue to treat gender equality as a founding principle of institutional governance, moving it from regulation to routine through policy review, curriculum development, research support and an inclusive environment. It will widen the application of gender mainstreaming across its units, strengthen the data base of gender statistics and analysis and keep tracking how each indicator changes, so that every policy and every investment can be examined and improved, and will keep encouraging women into under-represented disciplines. Through the Central Taiwan Regional Centre for Gender Equity Education it will deepen regional collaboration, turning its experience into a replicable and sustainable model and working with local government, schools and communities towards a campus and a society in which every gender can learn, work and develop with confidence.

SDG 6

Clean Water and Sanitation



National Changhua University of Education

2026 NCUE Sustainable Development Annual Report

SDG 6 Clean Water and Sanitation

Clean Water and Sanitation | SDG 6

From Conservation to Circulation: Making Every Drop Count

NCUE advances water governance along four lines: water-use monitoring, reuse, quality assurance and community co-learning. In 2025, the university's total water consumption decreased by 3.1% compared to the previous year; daily per capita water usage stood at 129 liters, approximately 44% of the national average of 292 liters. By the end of the year, the installation of 38 ultrasonic smart water meters was completed, enabling the immediate transmission and analysis of water usage data. Baisha Lake, 9,000 m² on campus, doubles as a detention basin and works with rainwater harvesting tanks and 6 green buildings to close the water loop. Beyond the campus, Environmental Educator certification courses and the “Resilient Changhua Coast” USR project extend water monitoring and conservation to Changhua’s coastal communities.

Key Figures

129 Liters	100%	38 Ultrasonic
Daily water use per person (44% of national average)	**Drinking water quality pass rate (249 dispensers)**	**Smart water meters installed; annual water use down 3.1%**

Highlights at a Glance



Baisha Lake, Jinde Campus: a campus water storage pond that doubles as a landscape feature

Keeping Rainwater on Campus

Covering roughly 9,000 m² on the Jinde Campus, Baisha Lake is both a scenic feature and a detention basin, receiving drainage from surrounding buildings and green spaces. All the rainwater collected is reused for sprinkler irrigation of lawns and flower beds, and together with the rainwater harvesting tanks required under green building regulations in buildings constructed since 2003, rainfall completes its cycle on campus.

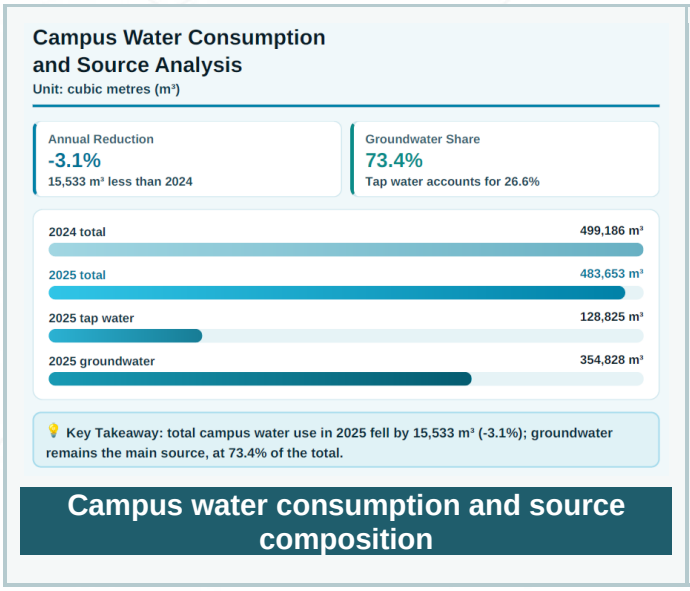
Evidence-Based Conservation: Lower Use, Smarter Meters



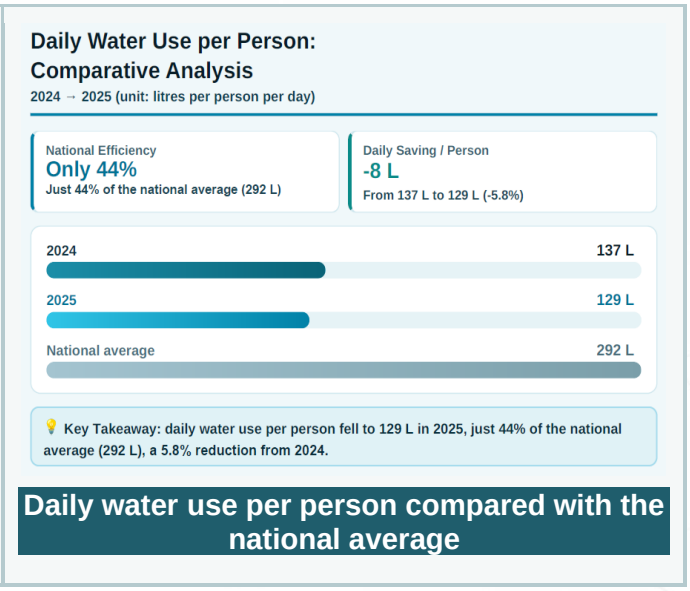
Smart energy management system flow records: real-time usage trends and anomalies by building

Campus water use in 2025 was 483,653 m³, down 15,533 m³ from 499,186 m³ in 2024, a fall of about 3.1%. Tap water accounted for 128,825 m³ and groundwater for 354,828 m³. Across a campus population of 10,234 (9,287 students and 947 staff, September 2025), that is about 129 litres per person per day, down from 137 litres in 2024 and just 44% of the national average of 292 litres (Water Resources Agency, Ministry of Economic Affairs).

By the end of 2025, 15 ultrasonic smart meters were installed on the Jinde Campus and 23 on the Shida Campus, where every building carries both a groundwater and a tap water meter. Usage and event data are sent wirelessly and plotted as flow trend charts, so leaks and abnormal patterns show up as they occur and guide water balancing, allocation and leak detection. Electricians also read and compare the meters daily, and any abnormal value triggers a campus-wide inspection to locate and repair leaks. Sensors monitor conductivity and pH continuously at the three campus wells.



Campus water consumption and source composition



Daily water use per person compared with the national average

Water in Circulation: Baisha Lake, Rainwater Harvesting and Green Buildings

Since 2003, every new building at NCUE has been fitted with a rainwater harvesting tank under the Green Building Label, the water going to toilet flushing and landscape watering; the five completed buildings hold a combined 423.9 m³. During rainfall Baisha Lake acts as a detention basin, taking drainage from nearby buildings and green spaces before the water returns to sprinkler irrigation. Water-saving fixtures have been installed campus-wide, including efficient faucets, low-flow and dual-flush toilets, water-saving showers and sensor flushing systems, reducing domestic water use at source.

Green Building Label certification requires two mandatory indicators, Daily Energy Saving and Water Resources. Since 2003 six NCUE buildings have received a label or candidate certificate: the Academic Main Hall (Teaching Building), Science Building I and the Wang Jin-pyng Activity Center on the Jinde Campus, and the College of Engineering Building, the student dormitory and Xuanli Stadium on the Shida Campus. Landscaping relies chiefly on drought-tolerant species, with sprinklers set for the fewest heads and greatest coverage and daily irrigation time controlled. A donation of about NT$16 million (US$500,000) from alumna Chairperson Jui-fen Hsiao has funded 6,486 saplings across the two campuses since 2023.





Campus greening and rainwater recovery equipment: drought-tolerant planting irrigated with harvested rainwater

Clean Water for All: Quality Assurance and Water Education





Wastewater treatment plants and effluent testing on both campuses

All campus wastewater is collected into the sewer network, treated at the wastewater treatment plants and released through registered outlets. Under the Water Pollution Control Act, water quality is tested every six months, effluent flow meters calibrated annually and sludge removed every two years; in 2025 both campuses passed all reviews and tests and the plants operated normally. For drinking water, 249 free dispensers are installed, at least one per floor, serviced twice a month with filters replaced quarterly. Each quarter a contractor samples about 60 units for coliforms; every 2025 result met the Drinking Water Quality Standards, a 100% pass rate, with reports posted beside the dispensers.

Beyond the campus, the Environmental Education Center ran Environmental Educator certification courses of 24, 33 and 100 hours from July to October 2025, covering freshwater

ecosystems, indicator species and water quality testing. Open to community residents as well as NCUE staff and students, they train local seed teachers in environmental education.





Intertidal surveys and hands-on water testing under the Resilient Changhua Coast project

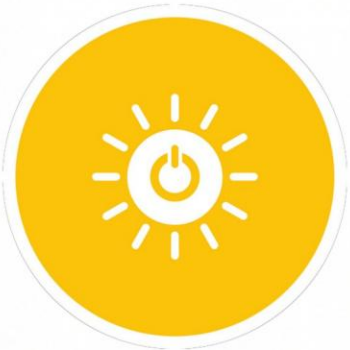
The “Resilient Changhua Coast: Climate Change and the Sustainability of Changhua’s Coastal Environment and Industries” USR project extends water resource management to six coastal townships: Shengang, Xianxi, Lukang, Fuxing, Fangyuan and Dacheng. It has produced a plain-language water testing handbook and run workshops on blue carbon and intertidal water quality and Vibrio testing of aquatic products, helping fishers monitor pond and ditch water quality in real time. Discarded aquaculture shells have been made into biogenic reefs at the Hanbao Wetland, raising intertidal benthic species from 14 to 37. Through “NCUE x Common Good”, water resource conservation has also entered project-based learning (PBL) lesson plans and training at four rural schools (Houliao and Yuhua Elementary Schools, Dacheng and Caohu Junior High Schools).

Conclusion: Every Drop Seen and Well Used

National Changhua University of Education will continue to deepen its “monitor, conserve, recirculate, co-learn” framework: sharpening anomaly detection and leak-finding from smart-meter data, widening the use of harvested rainwater and reclaimed water, and sustaining the environmental education courses and the Resilient Changhua Coast USR project that carry the campus’s experience to coastal communities and rural schools across Changhua, so that clean water and sanitation become part of everyday local practice.

SDG 7

Affordable and Clean Energy



National Changhua University of Education

2026 NCUE Sustainable Development Annual Report

7 Sustainable Development Goals

SDG 7 Affordable and Clean Energy

Affordable and Clean Energy | SDG 7

Generation, efficiency and storage combined: one of Taiwan's model smart microgrid campuses

NCUE drives its campus energy transition through generation, efficiency, storage and system integration, and passes that capability on to local schools and industry. Installed PV capacity reaches 3,129.875 kWp; in 2025 the low-carbon energy share rose to 31.85% and energy intensity fell to 0.181 GJ/m². The Shida Campus is one of the country's model smart microgrid campuses, winning a NT$100 million grant under Taipower's University Energy Conservation and Power Resilience Promotion Project for expansion. Externally, USR projects, carbon-inventory coaching and incubation services support the local low-carbon transition. In the 2026 THE Impact Rankings, NCUE climbed to 65th worldwide in SDG 7.

Key Figures

3,129.875 kWp	31.85%	1,867 tonnes
Total campus PV capacity, 2025	**Low-carbon energy share, 2025**	**Annual CO_2 avoided by PV, 2025**

Highlights at a Glance



Taipower signs university microgrid MOUs with NCU, NCUE and NSYSU

One of Taiwan's model smart microgrid campuses

The Shida Campus links three sub-microgrids to a main microgrid, integrating rooftop PV, 1.26 MWh of storage and a V2G electric-bus charging station. A NT$100 million Taipower grant awarded in 2026 funds expansion and strengthens islanded supply to at least four hours during an outage. Only six universities nationwide were selected for Taipower's University Microgrid Demonstration Program, and NCUE is one of its demonstration sites.

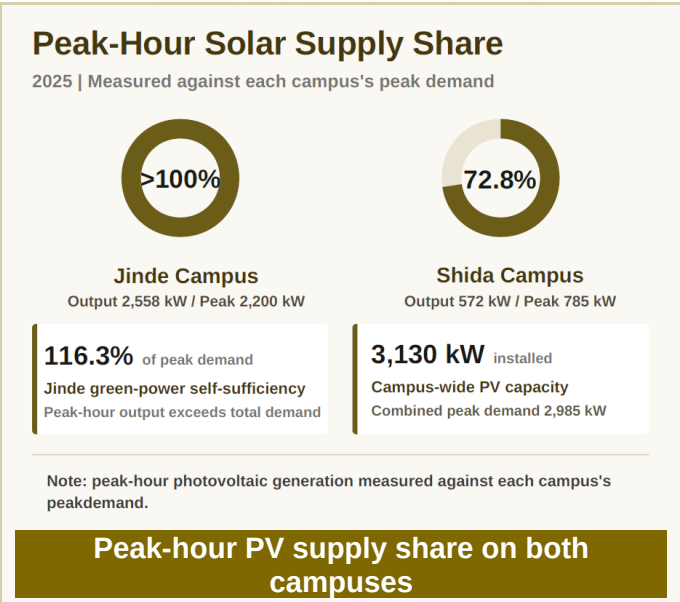
Generation: From Rooftop PV to a Net-Zero Energy House



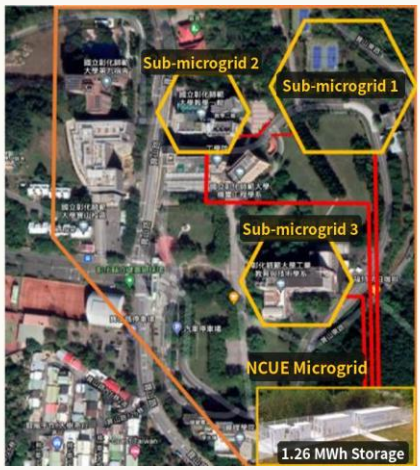
Net-Zero Energy House: rooftop PV, a small wind turbine and indoor storage make a single building 100% renewable

PV arrays on the Jinde and Shida Campuses now total 3,129.875 kWp (2,558.375 kWp and 571.5 kWp respectively). At Changhua's average of 3.5 peak-sun hours, annual output is about 3,998,415 kWh, or 14,394 GJ; using the 2025 grid emission factor of 0.467 kg CO_2/kWh, this avoids roughly 1,867 tonnes of CO_2 a year. The low-carbon energy share has climbed from 4.49% in 2022 to 18.72% in 2023, 30.13% in 2024 and 31.85% in 2025, entirely from the university's own photovoltaic systems, while energy intensity fell from 0.193 to 0.181 GJ/m² over the same period.

In 2025 peak-hour PV output on the Jinde campus exceeded peak demand, reaching 116.3% and pushing the low-carbon share past 100%; the Shida campus reached 72.8%. The Net-Zero Energy House, completed in early 2024, combines rooftop PV, a small wind turbine and indoor storage so that a single building runs entirely on renewables, and now serves as a demonstration site for teaching and public visits. A real-time monitoring platform covers every installation, tracking generation efficiency, historical output and equipment status so that faults are caught early and yields verified. On the Shida campus a main microgrid links three sub-microgrids, integrating rooftop PV, 1.26 MWh of storage and a V2G electric-bus charging station.

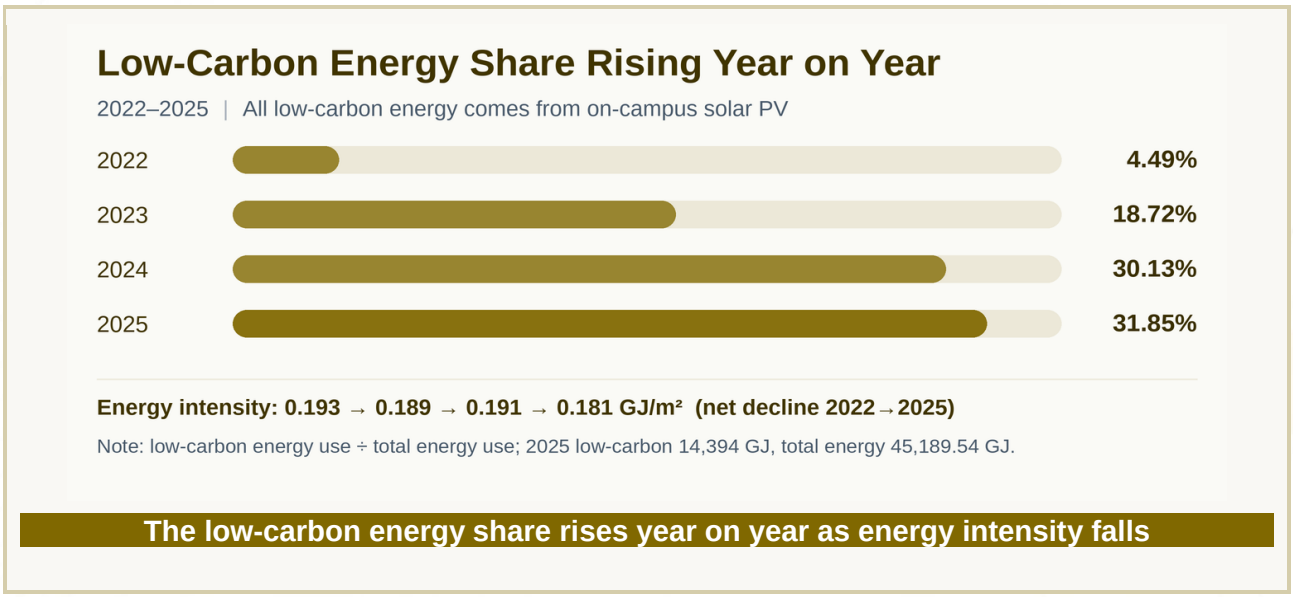


Peak-hour PV supply share on both campuses



Shida Campus microgrid: three sub-microgrids and 1.26 MWh of storage linked to a main microgrid

Efficiency Governance: From Policy to Smart Meters



The low-carbon energy share rises year on year as energy intensity falls

Since 2007 NCUE has pursued a sustained electricity-saving policy, meeting the Ministry of Education's target of at least 1% savings a year and cutting annual consumption by more than 15% in total by 2025. Two internal guidelines anchor this: NCUE's Energy Conservation and Carbon Reduction Implementation Guidelines, under which an energy conservation task force convened by the Vice President or a higher-ranking officer reviews and sets measures every year; and NCUE's Power Consumption Management on Campus Guidelines, which reviews each unit's electricity savings using buildings as the metering unit, rewarding units that save and fining those whose consumption rises excessively, making energy saving a daily habit.

Key measures in 2025 included replacing the Main Library's 100 RT chiller and ancillary equipment (an estimated 426,580 kWh saved a year), routine replacement of more than 200 air-conditioning units (431,964 kWh), converting over 300 T5 fixtures to LED (17,444 kWh), and downsizing Main Library's, outdoor-court and dormitory transformers to amorphous-core units (28,000 kWh). Campus-wide smart meters and an EMS platform were completed in late 2025; they visualise supply zones and high-consumption loads and issue contract-capacity alerts, and are expected to lift energy efficiency by a further 10%.

Shared Benefits: Education at the Roots, Decarbonisation in Industry



USR students with the solar array they assembled in hands-on training



Field practice: setting up and wiring a photovoltaic generation system

The USR project "Sustainable Changhua: Green Energy Perspective in Education, Technology, and Economy" roots energy education in the county's wind and solar resources. In 2025 it ran 10 workshops for primary and secondary school teachers, drawing 142 participations by external teachers, developed one green-energy teaching kit for special education and two lesson sets for mainstream classes, trained 42 seed teachers and supervised 8 student capstone projects. Courses pair DIY teaching aids with solar smart-car builds, complemented by an energy science summer camp and practical training in setting up photovoltaic systems, so that students move from principles to installation. NCUE also signed a memorandum of understanding with EDF power solutions on its Blue Ocean Changhua Offshore Wind Power Project, jointly promoting public education on offshore wind and renewable energy.



On-site carbon inventory coaching in industrial parks, with ISO 14064 training courses

On the industry side, 35 research projects on storage and clean energy ran in 2025: 16 NSTC-funded (NT$18.91 million) and 19 others (NT$9.78 million). The Innovation Incubation Center guided 8 local firms in low-carbon and efficiency technologies, 2 completing deep energy audits and 6 emission-source reviews with GHG inventory reports. Four training courses enabled 67 NCUE faculty members and students to obtain ISO 14064 certification, and 8 in-depth corporate inventories were completed.

The Taiwan Green Energy Technology Center received NT$840,000 under the Innovation Project for Local Industry Technological Value Enhancement, guiding 10 companies in energy saving, storage and wireless power transmission; three Carbon Inventory Value-Added Application Projects of the Industrial Development Administration, Ministry of Economic Affairs, were also approved in 2025. The College of Engineering co-hosted an AI-Driven Smart Manufacturing Workshop with ITRI, whose 6 talks on AI for energy optimisation and predictive maintenance helped central Taiwan manufacturers cut consumption on the way to net zero.

Conclusion: Microgrids at the Core, Widening the Reach of Energy Transition

NCUE will keep building on generation, efficiency, storage and system integration, deepening campus energy governance while widening its external impact. Beyond completing the Taipower microgrid demonstration and extending storage and islanding resilience, it will expand smart-meter and EMS data use so every kilowatt-hour is measured and optimised. Through USR projects, teacher workshops, carbon-inventory coaching and incubation services, the green-energy technology and talent built on campus will keep flowing out to local schools and industry, making NCUE a key pivot for central Taiwan's energy transition.

8 Sustainable Development Goals

SDG 8

Decent Work and Economic Growth



National Changhua University of Education

2026 NCUE Sustainable Development Annual Report

8 Sustainable Development Goals

SDG 8 Decent Work and Economic Growth

Decent Work and Economic Growth | SDG 8

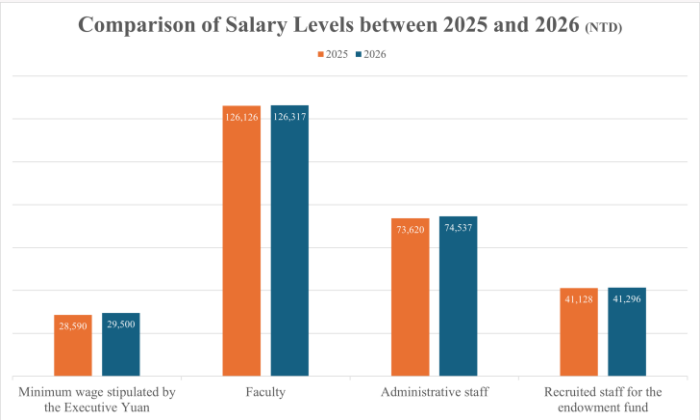
Advancing Decent Work, Wage Equity, Inclusive Campus, and Student Practicum Placements

NCUE actively implements SDG 8 targets by ensuring all employee salaries significantly exceed statutory minimum wages and raising minimum starting pay for contracted and project assistants to 1.1 times the statutory wage (NT$32,450). Among 804 active employees, 79.98% hold secure contracts of 24+ months, with an annual per capita expenditure of NT$2,596,285. The university maintains 22 democratic consultative and grievance committees, enforces zero-discrimination and anti-bullying policies, and has invested over NT$158.8 million in barrier-free infrastructure (100% coverage in main buildings). Simultaneously, 17 academic departments provide 1+ month internships engaging 453 students (40.66% of graduates, totaling 391,320 hours), cultivating a sustainable, inclusive, and dignified work and educational environment.

Key Figures

79.98%	NT$32,450	40.66%
Ratio of long-term employment contracts (exceeding two years)	**1.1x Statutory Minimum Wage**	**Undergrad Internship Ratio**

Highlights at a Glance

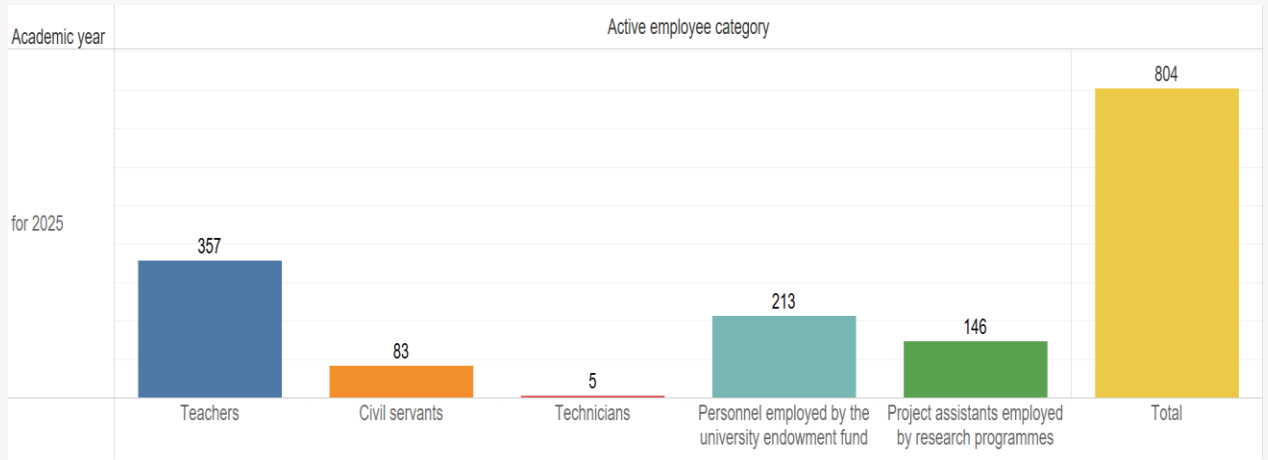


Comparison of Salary Levels Between 2025 and 2026

Guaranteed salary level

The average salary levels of our faculty and staff, as shown below, are all higher than the aforementioned minimum wage. The overall salary in 2026 is also higher than the salary level in 2025.

Salary & Long-Term Contracts: Enforcing Pay Equity & Dignified Employment



Number of personnel by category

NCUE strictly adheres to Article 21 of the Labor Standards Act and Executive Yuan wage standards. In 2026, average monthly salaries reached NT$126,317 for faculty, NT$74,537 for civil staff, and NT$41,296 for fund personnel; minimum starting pay for contracted assistants was raised to NT$32,450 (1.1x minimum wage). Transparent standards ensure pay equity, with female staff averaging NT$76,084, exceeding male staff (NT$71,789). Among 804 employees in 2025, 643 held secure contracts of 24+ months (79.98% coverage).

Year	Statutory Min. Wage	Faculty Avg. Wage	Staff Avg. (M / F)	Fund Personnel Avg.
2026	NT$29,500	NT$126,317	M: 71,789 / F: 76,084	NT$41,296
2025	NT$28,590	NT$126,126	M: 70,538 / F: 75,050	NT$41,128

Democratic Governance & Grievance Channels: Safeguarding Labor Rights

NCUE upholds freedom of association under the Labor Union Act and Civil Servant Association Act, operating 22 decision-making, review, and consultative committees (including University Council, Administrative Council, Labor-Management Conferences, and Gender Equality Committee). Dedicated grievance committees safeguard faculty (with >2/3

faculty representatives), staff, and students, while Workplace Anti-Bullying Guidelines establish independent investigation panels to defend employee rights.

Functional Category	Key Committees / Councils	Composition & Safeguard Focus
University Development & Governance	University Council, Administrative Meetings, University Development Committee , Fund Management Committee, College/Dept Meetings	Includes administrators, non-admin faculty, staff, and student reps to deliberate budgets & policies.
Rights Protection, Equity & Grievances	Teacher Appeal Review Committee, Staff Appeal Committee, Student Grievances Committee, Gender Equity Committee, OSH Committee	Provides formal appeal channels, harassment/bullying investigation, and quarterly labor-management dialogues.

Diversity, Inclusion and Non-Discrimination: A 100% Accessible, Maternity-Friendly Workplace



Breastfeeding and lactation rooms and accessible facilities on Campus

NCUE maintains an ICERD portal ensuring ethnic equality and conducted 110 gender equality and anti-discrimination workshops in 2025 (6,954 participants). The campus provides 3 nursing rooms granting 60 minutes of daily lactation time. Cumulative investments of NT$158,867,700 ensure 100% accessibility for elevators (23 units) and accessible restrooms (61 units) across all 23 main buildings, with 31 accessible dorm rooms with capacity for 68 residents.

Professional Internships & Educational Networks: Cultivating Youth Career Competitiveness

NCUE embeds practical career skills into academic programs. In 2025, 17 departments (Chemistry, Biology, Physics, CSIE, Geography, Fine Arts, Special Education, Guidance & Counseling, Finance, etc.) offered 1+ month internships engaging 453 students (40.66% of undergraduate graduates), totaling 391,320 hours (188.13 FTE). In teacher education, NCUE partners with 210 secondary schools nationwide for teaching practicums.

Participating Departments	Internship Students	% of Undergrad Graduates	Total Practicum Hours (FTE)
17 Departments	453 Students	40.66% (453 / 1,114)	391,320 Hours (188.13 FTE)



Teaching Practicum Experience

Conclusion: Championing Workplace Dignity and Deepening Sustainable Development Momentum

NCUE steadfastly adheres to a 'people-centered' ethos, embedding SDG 8 indicators across university governance and daily operations. From salary and secure contracts to transparent pay equity, democratic governance, and 100% accessible facilities, the university champions workplace dignity. Looking ahead, NCUE will continue expanding inclusive campus culture, internship networks, and employee welfare, collaborating with diverse partners for sustainable development.

SDG 9

Industry, Innovation and Infrastructure



National Changhua University of Education

2026 NCUE Sustainable Development Annual Report

9 Sustainable Development Goals

SDG 9 Industry, Innovation and Infrastructure

Industry, Innovation and Infrastructure | SDG 9

A central regional hub linking industry and academia: Focused R&D and Collaboration in Signature Fields

NCUE sits at the crossroads of central Taiwan, close to the Taichung Industrial Park, the precision-machinery cluster, and the Central Taiwan Science Park. In 2025, industry–academia funding reached NT$81.36 million; its partner network spans companies such as Siliconware Precision Industries (SPIL) to drive international industry–academia internships, alongside deep ties to the Central Taiwan Science Park cluster. Key outcomes include 117 industry–academia projects and a faculty NSTC basic-research execution rate ranking 2nd among national universities in central Taiwan. Overall impact includes successfully guiding local enterprises through smart and low-carbon transformation, helping the university place in the 301–400 band worldwide for SDG 9 in the 2025 THE Impact Rankings.

Key Figures

NT$81.36M	2nd in Central Taiwan	NT$510M
Industry–Academia Funding (117 Projects)	**NSTC Basic Research Execution Rate: 0.37**	**Total Research & Industry Project Funding (387 Projects)**

Highlights at a Glance

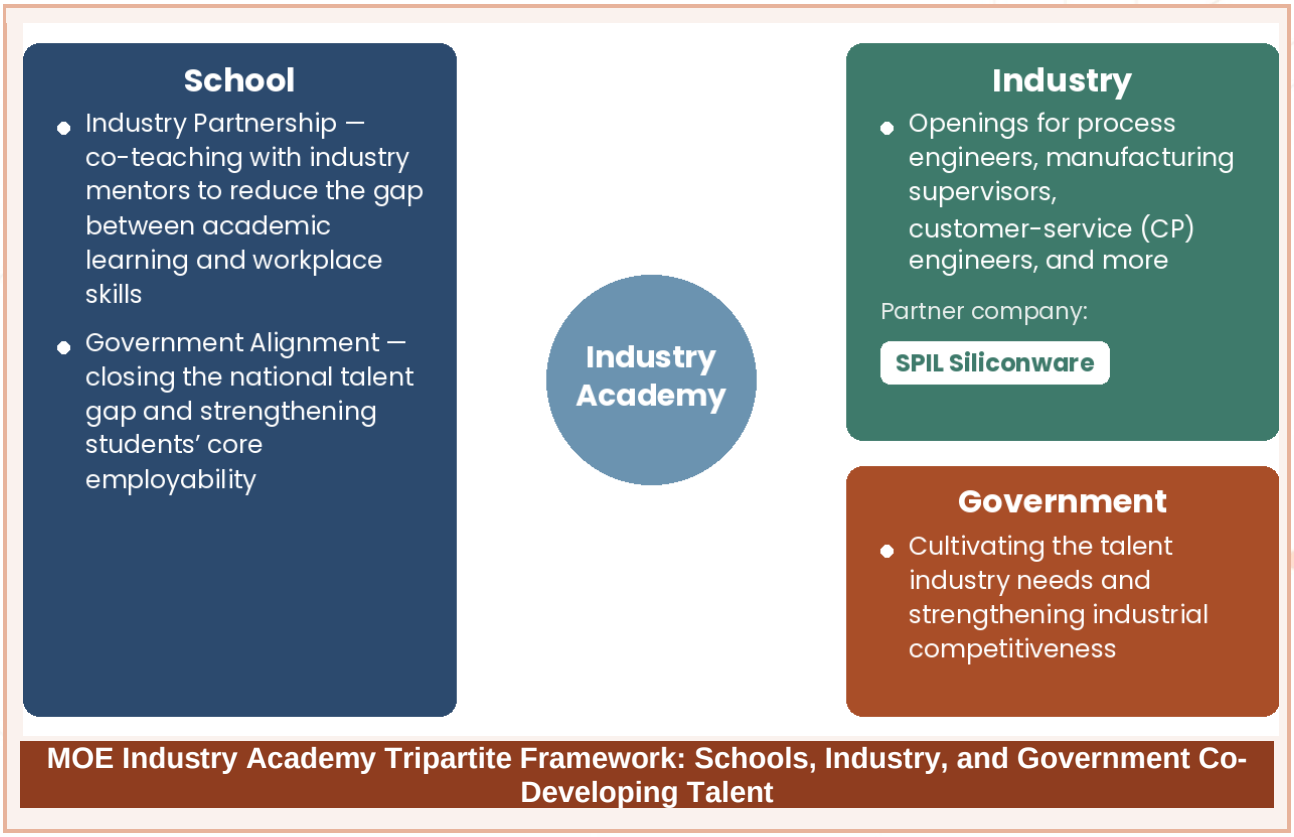


2025 Key Results Overview

Research Momentum Surges: Industry Collaboration, R&D, and Transformation All Advance

In the 2025 fiscal year, the total value of industry-academia collaboration projects exceeded NT$81.36 million (comprising 117 projects)—more than 2.5 times the 2021 level. The faculty's NSTC basic-research execution rate reached 0.37, ranking 2nd among national universities in central Taiwan, while total research and industry–academia project funding topped NT$510 million — laying a solid foundation of knowledge and talent for industrial innovation.

Dual-Track Talent: Building a Silicon Shield via Semiconductor Academies



MOE Industry Academy Tripartite Framework: Schools, Industry, and Government Co-Developing Talent

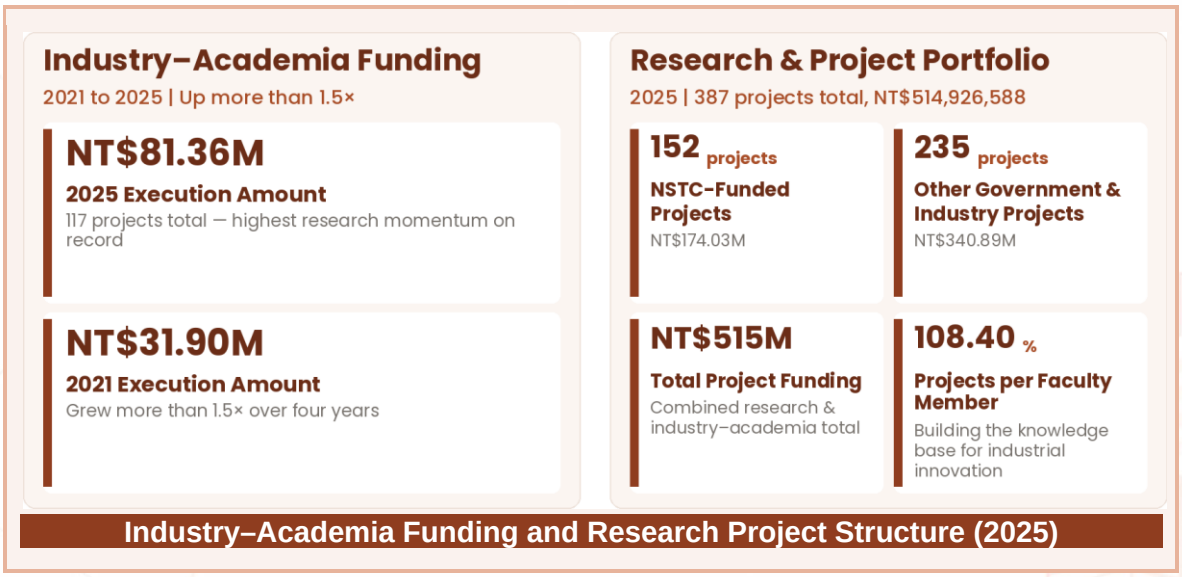
NCUE actively aligns with national strategic industries. In AY2025–26, it launched the "TSMC × NUST Semiconductor Talent Development Program," offering a dedicated semiconductor curriculum. Graduates are guaranteed a TSMC interview and may also compete for program-exclusive scholarships. The university has also deepened its role in the Ministry of Education's Industry Academy Program, bringing in mentors from leading manufacturers to co-teach courses and narrow the gap between academic learning and industry needs.

Take the 2025 cohort run with Siliconware Precision Industries (SPIL) as an example: of 21 graduates, 10 went straight into jobs at SPIL, and 9 continued into master's programs at NCUE or other universities — meeting the Ministry of Education's retention benchmark. This model has become a cornerstone of talent infrastructure for central Taiwan's high-tech industry.

Grassroots Industry Collaboration: Guiding SMEs Toward Smart and Low-Carbon Transformation

The Office of Research and Development and the Innovation Incubation Center have implemented a segmented industry-collaboration strategy, channeling senior faculty's research expertise into the Central Taiwan Science Park and the Taichung and Changhua industrial zones. In 2025, the university supported multiple SBIR and R&D-transformation projects across Changhua and Taichung, partnering with local firms such as Jin Herng Xing Copper Forging, Shiang Chung Industrial, and Ogroup Technology.

Results include projects such as "AI-Driven Real-Time Quality Alerts and Energy Management for Plastic Injection Molding," "Low-Carbon Production Technology for Dyeing and Finishing Equipment," and "AI-Based Full Inspection and Energy-Efficient Upgrading for Custom Metal Products," helping manufacturers adopt AI and low-carbon technologies. These efforts have substantially narrowed the gap between academic training and industry needs, driving a genuine green and smart transformation of central Taiwan's industries.



Industry–Academia Funding and Research Project Structure (2025)

Research Excellence: 2nd in Central Taiwan for NSTC Basic Research Execution Rate

Rank	University	2025	2024	2023	2022	2021
1	National Chung Hsing University	0.55	0.53	0.55	0.51	0.53
2	**National Changhua University of Education**	**0.37**	**0.34**	**0.34**	**0.36**	**0.32**
3	National Yunlin University of Sci. & Tech.	0.36	0.37	0.32	0.35	0.33
4	National Taichung University of Education	0.31	0.29	0.25	0.27	0.25
5	National Chi Nan University	0.31	0.30	0.31	0.28	0.33
6	National United University	0.30	0.28	0.29	0.24	0.26
7	National Chin-Yi Univ. of Technology	0.28	0.22	0.24	0.23	0.27

2025 Faculty NSTC Basic Research Execution Rate — 2nd Among National Universities in Central Taiwan

NCUE has cultivated outstanding academic research capacity through its “Research Mentorship Legacy Program” and a rolling incentive scheme covering “16 Projects Across Four Major Categories.” In 2025, faculty execution of NSTC Basic Research Grants reached 0.37 — for several consecutive years the 2nd highest among all national universities in central Taiwan, trailing only National Chung Hsing University — while total research and industry–academia project funding surpassed NT$510 million.

Through rigorous research-ethics governance and diverse incentives, the university has converted forward-looking basic science into real-world patents and technology transfers. The resulting startup, A. nT Environmental Technology Co., Ltd., completed company registration in May 2023; its technology-transfer royalty distribution plan received Ministry of Economic Affairs approval in June 2025 — providing central Taiwan’s high-tech and manufacturing sectors with formidable research and technical support.

Green Governance: Energy-Saving Outreach Events Grow Tenfold

The Innovation Incubation Center has organized and executed Changhua County Government’s “Energy-Saving Partner Governance and Outreach Program.” In 2025, exceptional public–private collaboration expanded energy-education outreach for college and school students from an initial target of 2 sessions (100 participants) to a tenfold increase — 50 sessions actually held, reaching a total of 1,100 participants.

In addition, expert teams were dispatched to conduct on-site electricity-use diagnostics, safety inspections, and equipment audits at 48 service-sector businesses and 18 residential buildings, offering recommendations for power-use improvements and smart energy-

management system (EMS) adoption. These efforts successfully extended academic expertise into communities and industry, advancing low-carbon infrastructure and fulfilling the university's green and sustainable social responsibility.

Conclusion: From Campus to Production Line — Co-Creating a Smart, Low-Carbon, Sustainable Future

In 2025, NCUE delivered outstanding results under SDG 9, "Industry, Innovation and Infrastructure." Backed by over NT$510 million in research capacity, the university built deep partnerships with TSMC, Siliconware Precision Industries (SPIL), and local SMEs — bringing its "from campus to production line" vision of co-creation to life.

Looking ahead, NCUE will continue to uphold rigorous research-ethics governance and incentive mechanisms, guiding cross-disciplinary R&D teams to focus on forward-looking fields such as AI, smart manufacturing, and low-carbon technology, while deepening ties with the Central Taiwan Science Park and regional industrial clusters to serve as a core hub for industrial transformation in central Taiwan. Through innovative initiatives such as the Industry Academy and semiconductor programs, the university will continue to cultivate technology talent with both professional expertise and a sustainability mindset — building more resilient industrial infrastructure for local businesses and fulfilling its role as a sustainability-driven institution of excellence.

Building on this year's experience serving 48 service-sector businesses and 18 residential buildings with on-site electricity-use diagnostics, the university will progressively deepen and broaden its energy-governance service network, while continuing to strengthen talent pipelines for semiconductors and smart manufacturing — steadily advancing toward the 2030 sustainable development goals for industry, innovation, and infrastructure, and ensuring that academic capability becomes a genuine engine driving local industrial upgrading.

SDG 10

Reduced Inequalities



National Changhua University of Education

2026 NCUE Sustainable Development Annual Report

SDG 10 Reduced Inequalities

Reduced Inequalities | SDG 10

Systematically Eliminating Barriers: Building an Accessible Campus Ecosystem Rooted in Equity, Empowerment, Diversity, Inclusion, Equality, and Sustainability

NCUE builds a support system for students and staff around three core values: equal empowerment, diversity and inclusion, and social mobility. In 2025 NCUE admitted 708 first-generation students and awarded more than NT$13 million in scholarships and grants through the Soaring Eagles Project. For 476 international students from developing countries, it runs the Ministry of Education's new-model international industry–academia programmes and a programme that helps graduates find work in Taiwan. For 103 students with disabilities, it provides an accessible learning environment and pays double the minimum wage for their campus work-study jobs. For staff, NCUE employs 25 colleagues with disabilities (an employment ratio of 3.11%), recruits and retains them proactively, and runs a Proactive Employee Assistance Program. Together, these measures remove barriers to learning and work across campus.

Key Figures

33.89%	6.45%	15.24%
(708 / 2,089)	(476 / 7,383)	(1,125 / 7,383)
First-generation students among 2025 new entrants	**Students from developing countries**	**Enrolled students from disadvantaged backgrounds**

Highlights at a Glance



NCUE's second Muslim prayer room, in the library on Jinde Campus

Diversity, Inclusion and a Welcoming Campus

NCUE fosters a campus of cross-cultural respect and inclusion. After opening its first prayer room in 2023, NCUE opened a second one in the library in April 2026. The room has separate areas for men and women, ablution facilities, a clear qibla marker showing the direction of Mecca, clean prayer mats and dedicated fittings, giving Muslim students and staff a private, fully equipped space for worship.

Breaking the Cycle: Comprehensive Support for First-Generation Students

NCUE recognises the role of higher education in social mobility and in ending intergenerational poverty, and makes first-generation students a priority group. In 2025, 708 first-generation students began degree studies at NCUE, 33.89% of all new entrants. To keep economic, cultural or information gaps from holding them back, NCUE supports these students at every stage: before admission, during their studies, and through measures for digital equity.

Before admission, Soaring Eagles give applicants priority places and look beyond test scores to how students have progressed through adversity. A zero-cost application policy waives all screening fees and subsidises travel and accommodation, removing a financial barrier for disadvantaged applicants. After admission, NCUE follows the principle of “learning instead of part-time work” and combines multiple sources of scholarships and grants. In 2025, the Soaring Eagles Project supported economically disadvantaged students 2,172 times and awarded NT$13 million. First-generation students accounted for 901 of these instances and received nearly NT$5.4 million (41.51% of the total). An emergency relief fund of up to NT$100,000 per case adds a further safety net.

To close the digital divide rooted in family background, NCUE invests about NT$29 million a year in library collections and electronic databases, and its membership of five academic consortia gives students access to leading international journals. The Precision Career Development Center brings in industry experts for one-to-one career consultations. Students also turn the support they receive into service for others. Through the Baisha Summer School, which served 115 new seventh-graders; the Schweitzer Educational Service Program, which served 28 pupils at a rural school; and the University Social Responsibility (USR) Project “NCUE x Common Good”, which served 247 pupils at eight schools in central and southern Taiwan, 69 pre-service teacher volunteers provided 390 instances of service to rural pupils. In this way, students who were empowered now help others move up.

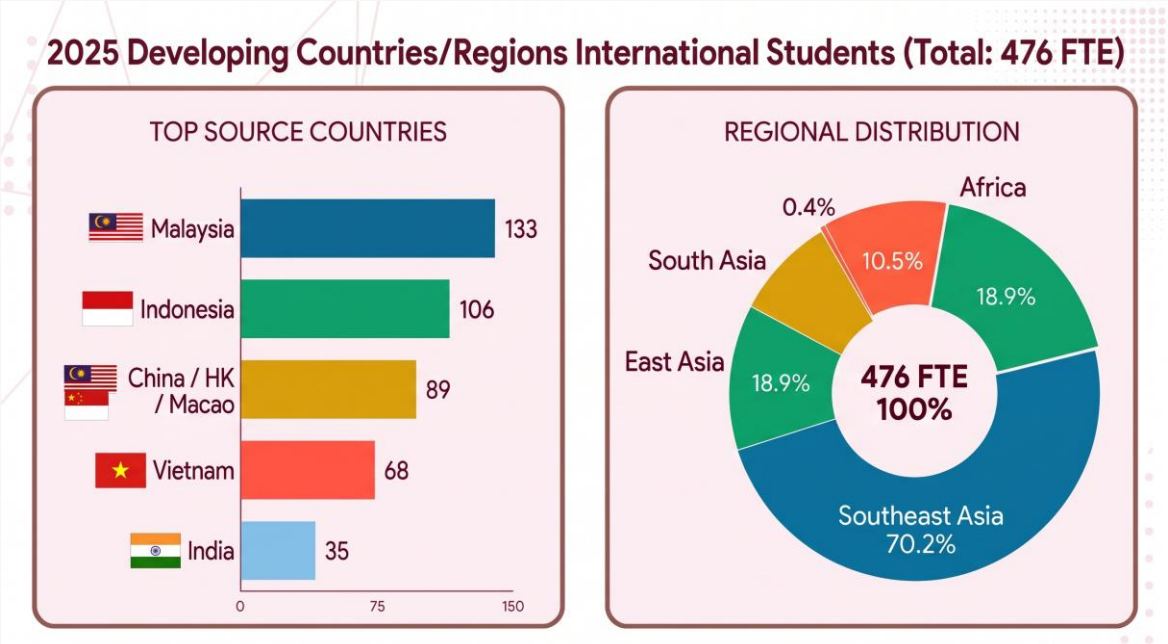


Soaring Eagles students take part in the Mentored Self-Initiated Learning Program and complete community development leadership training in Changhua County



Schweitzer Educational Service Program: pre-service teachers at a rural school

Industry–Academia Dual Track: New International Programmes and Talent from Developing Countries



Origins of international students from developing countries, 2025

NCUE treats educational equity as central to its global engagement and works to remove barriers to cross-border study. In 2025 NCUE enrolled 476 international students from developing countries such as Malaysia, Indonesia, India, Vietnam and the Philippines, 6.45% of all students. To ease financial pressure, NCUE offers several forms of financial

support and runs a “1+4” International Foundation Program: students pay no tuition or fees during their first year of Chinese-language study, and continue to receive free tuition, fees and accommodation in their first undergraduate year. The programme admitted 60 students in 2025 and has expanded to five bachelor's programmes, including those of the Department of Electronic Engineering, the Department of Electrical Engineering and the Department of Computer Science and Information Engineering, lowering the cost of studying in Taiwan.

NCUE also builds inclusion into daily student life. It introduced a dual-mentor system that pairs each international student with a regular class mentor and a departmental international mentor, backed by a network of local student buddies. It deepens academic cooperation with sister universities and offers 86 courses on multiculturalism and ethnic equality. On campus, NCUE regularly holds International Week and cultural events, and in April 2026 it opened a second Muslim prayer room in the library on Jinde Campus, creating a campus that respects religious diversity.

In line with national policy, NCUE received NT$3 million from the Ministry of Education to launch new-model international industry–academia programmes: international master's programmes in the College of Engineering and the College of Science. All 11 partner companies, including Siliconware Precision Industries Co., Ltd. and Allis Electric Co., Ltd., take part in the curriculum and practical teaching. The companies offer paid internships and allowances of at least NT$10,000 a month for up to 24 months, and all commit to priority hiring, so students have a job pathway from the day they enrol. Under the Pilot Program of Professional Employment Guidance for International Students in Taiwan, NCUE assigns bilingual career advisers and runs company information sessions, career talks, CV reviews and mock interviews, which drew over 600 participants. In 2025, 30 international graduates found jobs in Taiwan and 16 went on to further study.



An NCUE delegation visits 11 Indonesian universities to lay the groundwork for academic cooperation



A career workshop helps international students identify their strengths and learn job-search strategies

Dignity and Rights: Support for Students with Disabilities and Double Work-Study Pay

NCUE provides students with disabilities with an accessible, dignified environment for study and daily life. In 2025, 103 students with disabilities studied at NCUE, 1.40% of all students. NCUE holds a dedicated admission round for students with disabilities each year and also admits them through joint admissions. The resource classroom of the Special Education Center secured NT$3.37 million in designated Ministry of Education funding and provided academic tutoring, counselling, assistive device loans and accessible learning materials, delivering 3,644 services during the year. To support decent work and economic independence, NCUE matches these students to suitable campus jobs, adapts their work environments, and has amended its work-study rules to raise their hourly pay to twice the statutory minimum wage.

NCUE has invested a cumulative NT$158 million in campus accessibility. All 23 main teaching and administrative buildings have accessible lifts (23 in total) and accessible toilets (61 in total). NCUE's seven dormitories include 31 accessible rooms, and students from low-income households pay no accommodation fees. The result is a safe campus built on universal design that respects individual dignity.



On-site orientation and mobility training for students with visual impairments



Accessible, safe routes across campus

Workplace Equality: Whole-Person Care and Inclusion of Diverse Communities

NCUE applies the principles of workplace equality, gender equality and non-discrimination, and extends its care to all faculty and staff and to the diverse communities around it. Its Proactive Employee Assistance Program offers free, confidential consultations

in four areas: counselling, health promotion, legal matters and financial planning. The programme also follows up proactively with high-pressure units, new employees and staff facing emergencies. NCUE has formally signed a Sustainable Development Commitment that institutionalises decent work and equal pay for equal work. In 2025 employees with disabilities made up 3.11% of NCUE's workforce (25 in total). NCUE also helps faculty with hearing or visual impairments apply to the Changhua County Government for hardware and software support through job redesign for persons with disabilities, removing barriers in teaching and administration.

In 2025 NCUE held a series of Gender Equality Education Day events that drew 696 participants from faculty, staff and students, building a culture that prevents workplace bullying and gender discrimination. NCUE also established the Ying-Yu NCUE Cultural Health Station, the first such station at a national university in Taiwan. The station links whole-person workplace care with culturally grounded care for Indigenous peoples, protecting the health, culture and dignity of people across generations and ethnic groups, and offers a working model of a dignified workplace and social inclusion in higher education.



Gender Equality Education Day events drew 696 participants



The Ying-Yu NCUE Cultural Health Station, the first at a national university in Taiwan

Conclusion: Deepening Equity Mechanisms to Extend Inclusive Impact

NCUE will keep working to reduce inequality in all its forms by strengthening admission safeguards, financial security for students, transnational talent development and campus accessibility. It will expand resources for first-generation and disadvantaged students, align new international industry–academia programmes more closely with industry needs, and strengthen protections for people with disabilities and support for faculty and staff. Through systematic data tracking and social responsibility practice, NCUE will embed equity and inclusion in its governance, teaching and research.

SDG 11

Sustainable Cities and Communities



National Changhua University of Education

2026 NCUE Sustainable Development Annual Report

SDG 11 Sustainable Cities and Communities

Sustainable Cities and Communities | SDG 11

The open campus as the city's public space: access, heritage and low-carbon mobility

NCUE delivers SDG 11 through three strands: open sharing, cultural preservation and low-carbon mobility. Across two campuses, 43.5 hectares of green space, the sports facilities and the library are open to the public free of charge year-round, and all 23 main buildings have accessible elevators and restrooms. Four buildings with cultural heritage potential and six arts venues admit visitors free. Arts and heritage expenditure reached NT$40.32 million in 2025, 13.9 times the 2022 figure. Public bicycles, a bus route into campus and an inter-campus shuttle support low-carbon commuting, and seven dormitories house 3,312 students at about half the local market rate.

Key Figures

43.5 hectares	NT$40.32 m	3,312 beds
Green space across both campuses, permanently open free of charge	**Arts and heritage expenditure in 2025 (1.9% of total expenditure)**	**On-campus student housing, shared rooms at about half the market rate**

Highlights at a Glance



43.5 hectares of campus green space and Baisha Lake, open free to the public year-round

An urban oasis: a campus open free all year

The two campuses hold 43.5 hectares of green space, permanently open free of charge, with pedestrian paths, a lakeside walk at Baisha Lake, water dispensers and restrooms. The athletics track, volleyball and basketball courts and football pitch are also free for community use. All 23 main buildings have accessible elevators and restrooms — a 100% installation rate.

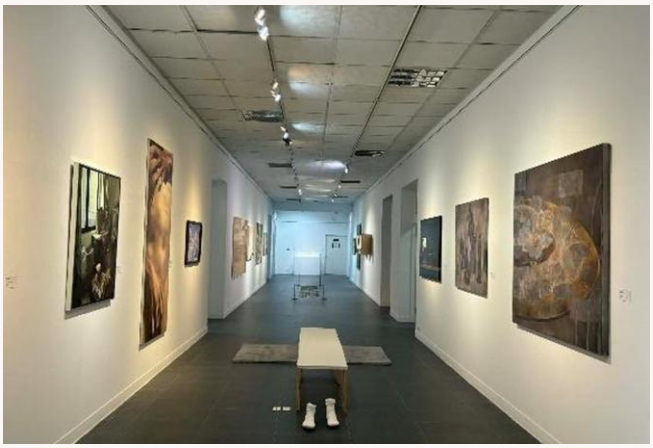
Old Buildings, New Life: From Brownfield to Open Campus Culture



Yi-Hui Hall and Jie-Ying Hall, buildings with cultural heritage potential, open free year-round

Yi-Hui Hall, Jie-Ying Hall, Hong-Dao Hall and Qiao-Si Hall are all on the Ministry of Education register of buildings with cultural heritage potential and open free of charge year-round. Yi-Hui Hall occupies factory buildings left on a site earmarked for a brewery in 1956–60; the buildings became the Department of Fine Arts exhibition space — the starting point of brownfield regeneration on campus. Faculty Housing 1-5 and 1-6, built in 1964 as staff dormitories for Jinde Experimental High School, stood empty after their residents left. They were refurbished in 2007 as Hou Garden, an alternative exhibition space, and in 2023 part of the block became the i-House common room for international students, with two Muslim prayer rooms — one for each gender — and an ablution area. In 2025 NCUE applied to the Changhua County Cultural Affairs Bureau for a grant to revitalise the buildings.

Six venues admit visitors free all year: the Baisha Art Center, Hou Garden, the Arts and Culture Corridor of the College of Extension Education, the You Yu Yi Gallery in Hong-Dao Hall, the University History Museum and the Alumni Hall, opened in 2025. In 2025 the Baisha Art Center and Hou Garden held 17 exhibitions and the You Yu Yi Gallery four. On the Shida Campus, disused container units were cleared for a megawatt-scale energy storage system donated by Ørsted Taiwan, creating a research and demonstration site for storage and microgrids that combines brownfield regeneration with green energy teaching.



Baisha Art Center gallery, open free to visitors year-round



The i-House and Hou Garden: 1964 staff dormitories brought back into use

Cultural Investment: From Tangible Buildings to Intangible Memory

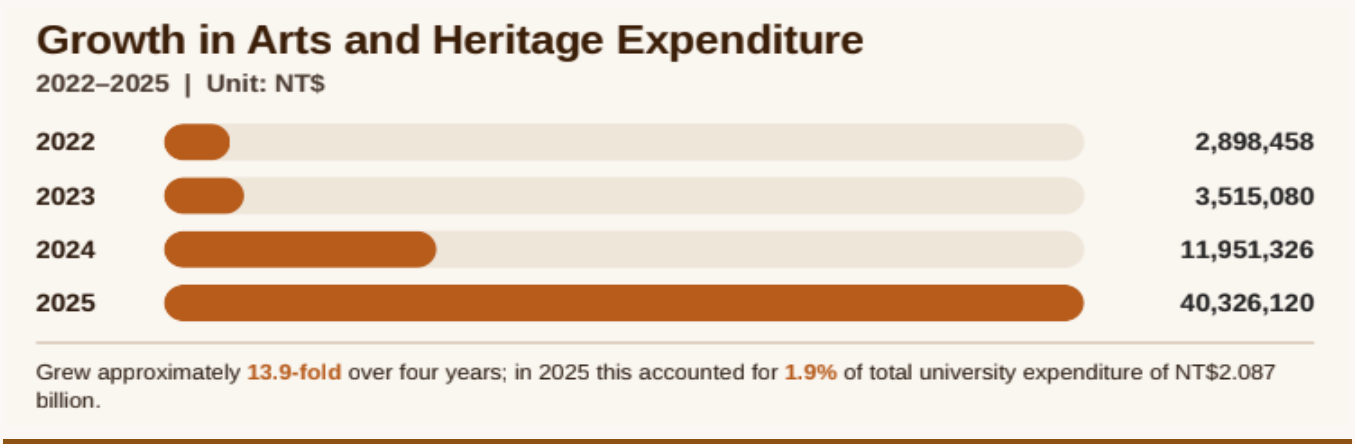




Bunun plant-dyeing workshop and the Indigenous Market Music Festival: intangible heritage in practice

NCUE's total expenditure in 2025 was NT$2.087 billion, of which NT$40.32 million — 1.9% — went to arts and heritage: NT$1.29 m for repairs to tangible heritage buildings, NT$0.81 m for intangible heritage and cultural transmission, NT$3.41 m for arts and exhibitions, NT$34.54 m for public use and operation of the library, and NT$0.27 m for other arts resources. On intangible heritage, the Indigenous Student Resource Center ran 11 themed activities in 2025 with 377 participants, including hands-on workshops in Bunun textiles and plant dyeing, Amis necklaces, Paiwan wreaths and Atayal horn-hook weaving, and field visits to the Dili, Shuanglong and Ita Thao communities in Nantou and Walu in Miaoli.

The Indigenous Market Music Festival, part of the University's 54th anniversary, brought together 18 food and craft stalls and five performing groups. Two sessions of the Taiwanese Hokkien certification course were completed by 44 participants.



Growth in arts and heritage expenditure, 2022–2025

Low-Carbon Mobility and Affordable Housing: Everyday Practice on a Liveable Campus



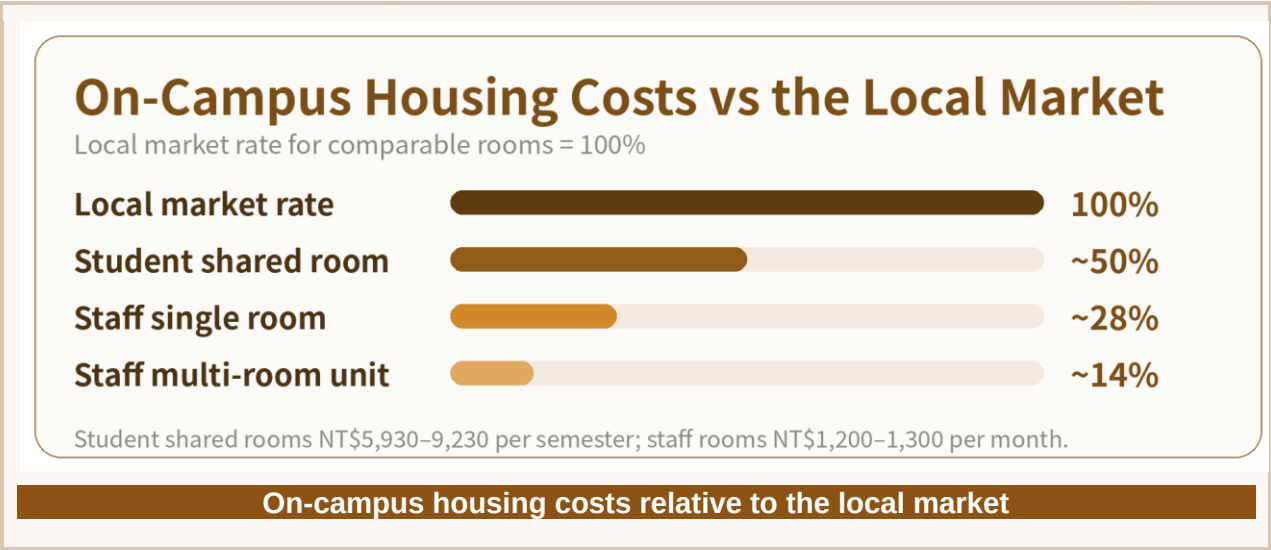
Public bicycle station at the Jinde Campus entrance



Two-person en-suite room, Student Dormitory No. 10

A public bicycle station has stood at the Jinde Campus main gate since 2014, now on the MOOVO system; a second opened at the Shida Campus in 2025 and expanded to 30 electric-assist bicycles in 2026. The campus also provides 1,722 free bicycle spaces and 3,733 motorcycle spaces. Under the Directorate General of Highways' Bus into Campus programme, Changhua Bus Route 2 was extended into the Jinde Campus, running from Changhua Railway Station to the Shida Campus; an inter-campus shuttle runs every semester, with two to three demand surveys a semester used to adjust the timetable. EV charging points were installed in both campus car parks in November 2024, with 11 more

added in 2026. Motorcycles are banned from the teaching and dormitory areas under a pedestrians-first policy.



On-campus housing costs relative to the local market

Seven dormitories house up to 3,312 students: 79% shared rooms for three to four students and 21% en-suite rooms for two to four, each building with access control, a lounge and a reading room. Shared rooms cost NT$5,930–9,230 a semester, about half the local market rate and the lowest among 12 comparable universities of education and national universities in central Taiwan. In 2025, 5,138 student-instances received Ministry of Education accommodation subsidies totalling NT$25.59 million. Staff housing is charged at about 20–30% of local rental rates.

Conclusion: Turning the Campus Wall into a Gateway to the City

NCUE will continue to deepen its practice of sustainable cities and communities through access, preservation and mobility. Green spaces, venues and exhibition spaces will stay open free of charge, while the Yelin Boulevard accessible route and the footway at the main gate extend a pedestrians-first, barrier-free campus. Cultural work will continue to document and revive Indigenous culture, the local language and historic buildings; on mobility, the Taichung Metro Green Line extension — with G22 about 1 km from the Jinde Campus — together with more public bicycles and a planned campus taxi-sharing scheme will reduce reliance on private vehicles. Through affordable housing and accessible public services, the campus becomes part of everyday life in Changhua.

SDG 12

Responsible Consumption and Production



National Changhua University of Education

2026 NCUE Sustainable Development Annual Report

SDG 12 Responsible Consumption and Production

Responsible Consumption and Production | SDG 12

Upstream Governance, Waste Reduction Across the Chain: Putting Responsible Consumption and Production into Practice

NCUE has made green procurement, food traceability, and plastic reduction in the supply chain its core strategies for putting the principles of responsible consumption and production (SDG 12) into practice. In 2025, green procurement totaled NT$20.77 million, with a 100% achievement rate for designated items. Campus-wide, total waste in 2025 amounted to 276,851 kg, of which 91,681 kg were recyclables, bringing the recycling rate to 33.12%, with 100% of recyclables properly processed. These policies also extend to outsourced cleaning and catering services, and 634 meetings and events throughout the year reduced the use of disposable tableware and bottled water. Alongside the installation of solar PV systems, second-hand reuse programs, and a carbon neutrality declaration, the university is steadily building a low-carbon, circular campus.

Key Figures

NT$20.77 M	33.12%	634 Events
Total Green Procurement (100% Achievement Rate)	**Campus-wide Recycling Rate**	**Meetings & Events Cutting Disposable Tableware and Bottled Water**

Highlights at a Glance



Cleaning staff sorting waste for recycling

Reducing Waste at the Source: Full Commitment to Responsible Consumption and Production

Through a multi-pronged approach of green procurement, food traceability, supply-chain plastic reduction, and resource circulation, NCUE achieved a 100% green procurement rate and a 33.12% recycling rate in 2025, extending these efforts to outsourced services, solar PV, and second-hand reuse, demonstrating tangible results in sustainable governance.

Upstream Governance: Green Procurement and Food Traceability Hand in Hand



NCUE dining halls prioritize seasonal, local ingredients to cut carbon at the source

NCUE is committed to governance at the procurement source. In 2025, green product procurement totaled NT$20.77 million, including NT$345,000 in bonus-point items, with a 100% achievement rate for designated items and full compliance in all four quarters. The university also gives priority to products and services from disability welfare institutions and sheltered workshops, reaching an achievement rate of 14.06% in 2025 and providing concrete support for the employment of disadvantaged groups.

The dining halls on the Jinde and Shida campuses both follow the same food procurement principles: seasonal and local ingredients are preferred to reduce the carbon footprint and food miles, and suppliers are required to provide ingredients bearing traceability labels such as TAP (Traceable Agricultural Products), CAS, and TQF. Ingredient information is also uploaded daily to the Ministry of Education's "School Food Ingredient Registration Platform 2.0," fully disclosing sources so that students and staff can eat with confidence and sustainably.



Traceable ingredients with TAP and CAS labels



Dining halls prioritize seasonal, local ingredients, supporting local producers

Plastic and Waste Reduction: Extending Policy to the Supply Chain and On-site Operations

In accordance with Ministry of Environment regulations, NCUE has brought all outsourced services, including cleaning, catering, and security, within the scope of its plastic and waste reduction policy, and all contract terms comply with environmental regulations and university requirements. The dining halls do not proactively provide disposable tableware or plastic shopping bags for dine-in customers and have fully switched to reusable, washable tableware for faculty, staff, and students. Cleaning staff also strictly follow waste sorting and recycling rules, ensuring consistent standards from source to site.

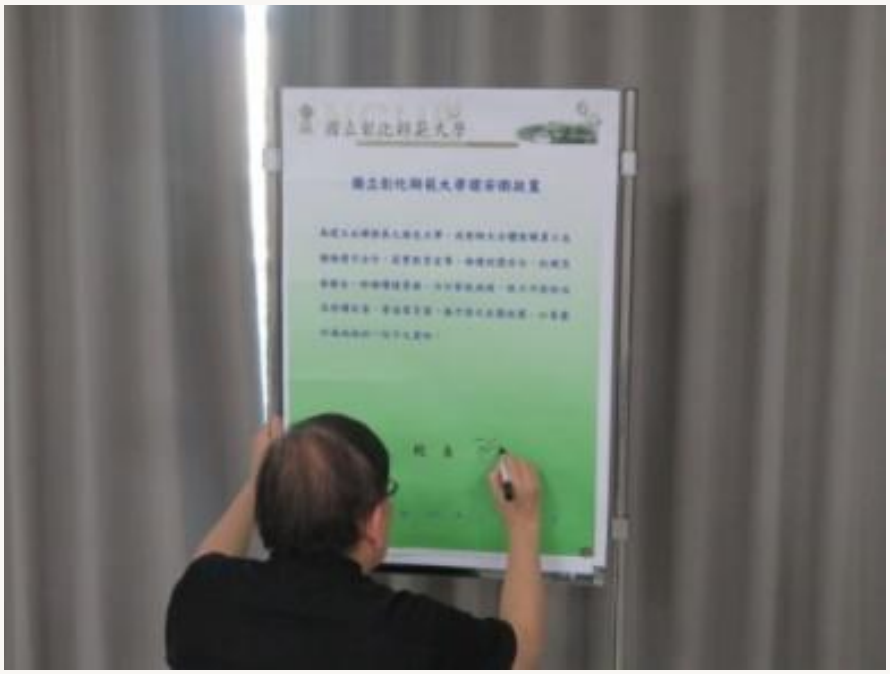
In 2025, the campus-wide recycling rate reached 33.12%, with 100% of recyclables properly processed. In addition, 634 meetings, training sessions, and events throughout the year went without bottled water and paper cups, with 14,268 participants taking part, showing how the policy has extended from internal governance to the supply chain and daily life.



2025 Supply-Chain and On-site Reduction Results

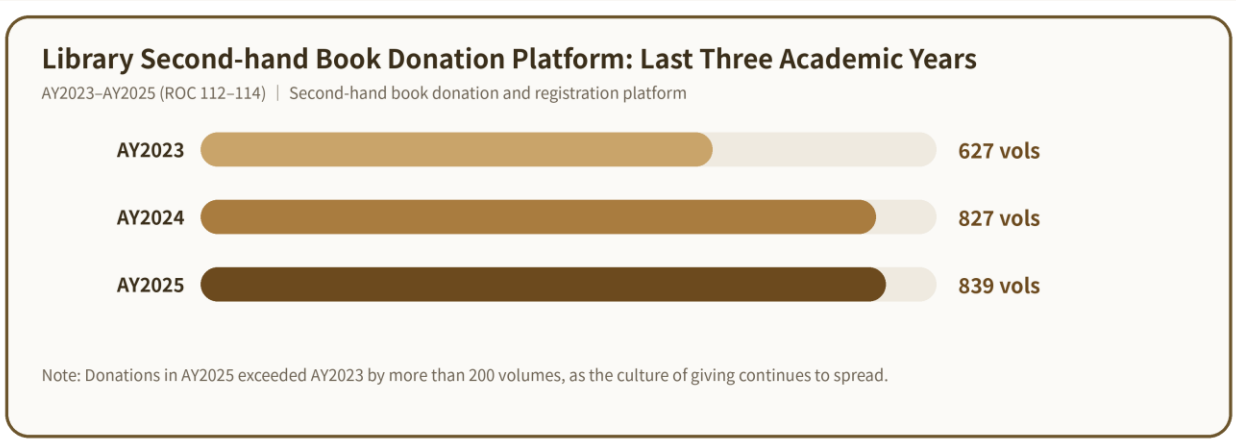
Net-Zero Transition: Solar PV and Resource Circulation

The President of NCUE signed the "National Changhua University of Education Environmental, Safety and Health Policy" in September 2020 and a Sustainable Development Commitment in 2022, followed in September 2025 by the "National Changhua University of Education Carbon Neutrality Declaration," demonstrating a firm commitment to net-zero governance. At the same time, solar PV systems have been installed on building rooftops on the Jinde and Shida campuses. Besides lowering buildings' electricity loads, they also help keep rooftops cooler and improve overall energy efficiency, moving the campus steadily toward low-carbon operations.



The President signs the "National Changhua University of Education Environmental, Safety and Health Policy"

Resource circulation efforts have also deepened: donations to the library's second-hand book platform grew from 627 volumes in AY2023 (ROC 112) and 827 in AY2024 (ROC 113) to 839 in AY2025 (ROC 114). The abandoned bicycle adoption program, held every two years, matched 21 second-hand bicycles with new owners in 2025, giving idle resources new users and carrying circular sustainability from infrastructure to everyday life.



Library Second-hand Book Donation Platform: Volumes over the Past Three Academic Years

Conclusion: Expanding the Impact of Sustainable Consumption through Upstream Governance

National Changhua University of Education will continue to make upstream governance and resource circulation its core strategies for advancing responsible consumption and production, deepening concrete actions in green procurement, food traceability, supply-chain plastic reduction, and recycling. Going forward, the university will further expand its solar PV installations, strengthen its second-hand reuse platforms and waste tracking mechanisms, and bring the idea of sustainable consumption into the daily lives of all faculty, staff, and students, realizing the sustainable production and consumption patterns emphasized by SDG 12 and working steadily toward a low-carbon, circular campus. NCUE will also continue to strengthen supply-chain management, requiring outsourced cleaning, catering, and security contractors to follow plastic and waste reduction rules, and will regularly review procurement and waste data to ensure steady progress on all sustainability indicators. Looking ahead, building on student and staff participation and cross-unit collaboration, the university will gradually broaden the reach of its green consumption culture and work with government, suppliers, and community partners to achieve the Sustainable Development Goals, creating a more resilient and responsible model campus for the next generation.

SDG 13

Climate Action



National Changhua University of Education

2026 NCUE Sustainable Development Annual Report

SDG 13 Climate Action

Climate Action | SDG 13

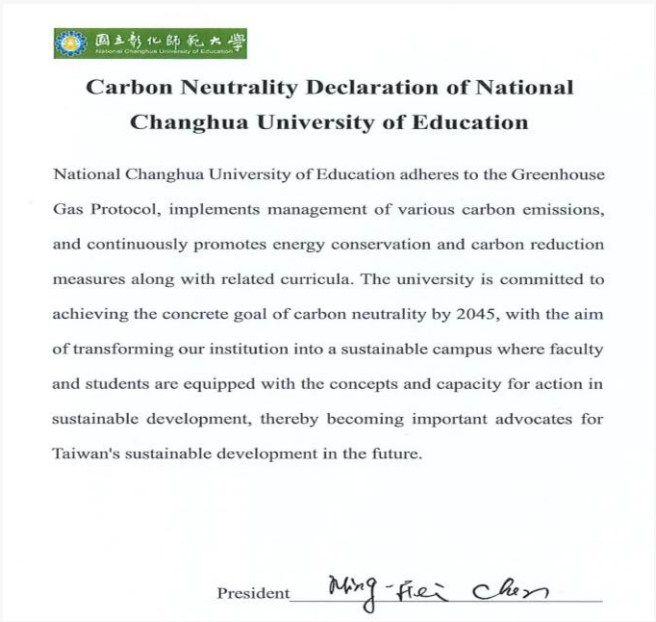
From Campus Decarbonization to Local Adaptation, Carbon Neutral by 2045

NCUE manages its emissions under the GHG Protocol and has signed a Carbon Neutrality Declaration committing the whole campus to carbon neutrality by 2045. In 2025 low-carbon energy reached 31.85% of total energy use, all from on-campus solar PV, with capacity set to reach 4,097.875 kWp by 2030. Beyond campus, NCUE supports local adaptation through climate research, hazard monitoring, and environmental education. In 2025, NCUE ran 5 climate education projects and 7 climate action research projects and, through 5 collaborative projects with NGOs, held horticultural therapy workshops with 966 participant visits; the Resilient Changhua Coast project held environmental education activities with about 800 participants. NCUE also provides scientific data and monitoring information to central and local governments to inform their decisions.

Key Figures

2045	966	4,097.875 kWp
Target year for campus-wide carbon neutrality	**Participant visits in horticultural therapy workshops**	**Planned solar PV capacity by 2030**

Highlights at a Glance



國立彰化師範大學
National Changhua University of Education

Carbon Neutrality Declaration of National Changhua University of Education

National Changhua University of Education adheres to the Greenhouse Gas Protocol, implements management of various carbon emissions, and continuously promotes energy conservation and carbon reduction measures along with related curricula. The university is committed to achieving the concrete goal of carbon neutrality by 2045, with the aim of transforming our institution into a sustainable campus where faculty and students are equipped with the concepts and capacity for action in sustainable development, thereby becoming important advocates for Taiwan's sustainable development in the future.

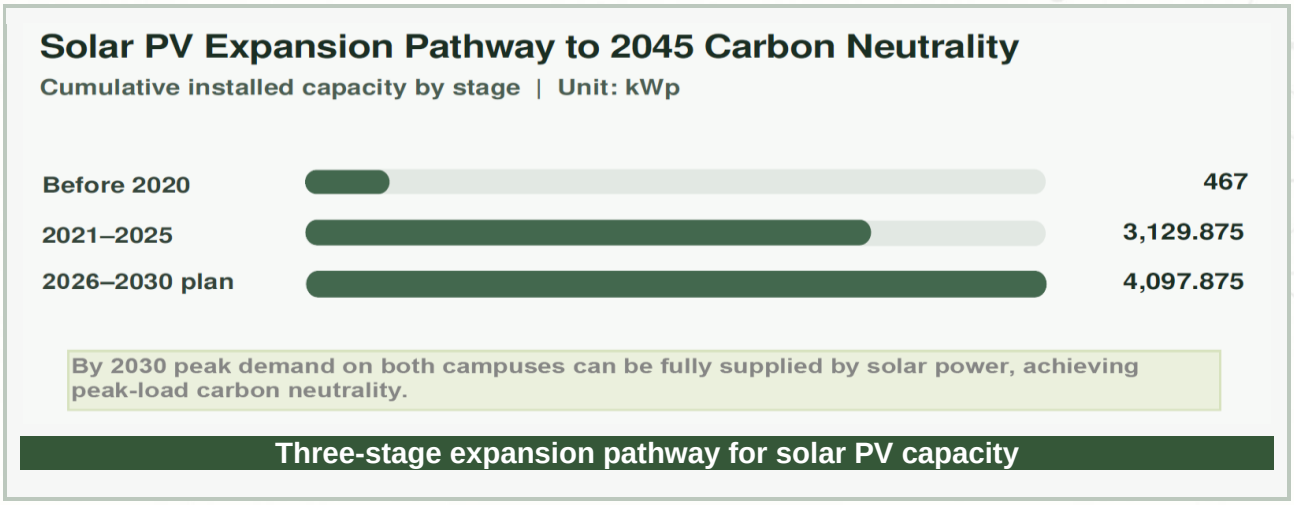
President Ming-Fei Chen

NCUE Carbon Neutrality Declaration

A Decarbonization Pathway to 2045 Carbon Neutrality

NCUE manages carbon emissions under the GHG Protocol and has signed a Carbon Neutrality Declaration setting 2045 for campus-wide carbon neutrality. The pathway advances on four fronts: energy saving, renewables, storage and industry–academia collaboration. NCUE invests more than NT$5 million a year to replace energy-intensive equipment, targeting a 1% gain in energy efficiency each year and a reduction of at least 1.3 million kWh in the annual electricity use of existing equipment by 2029 compared with 2022.

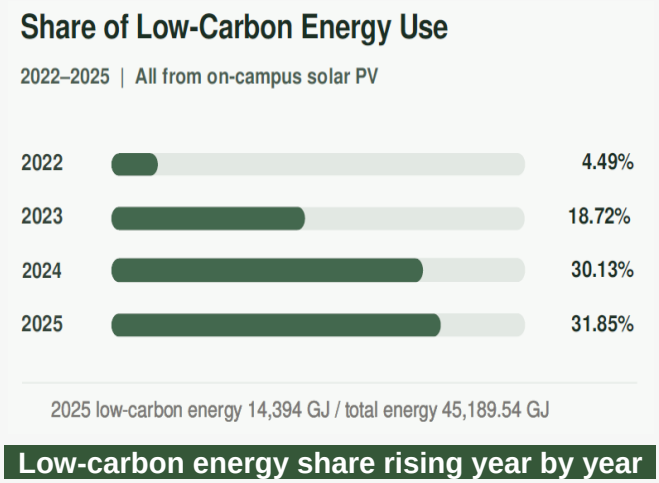
Decarbonization Foundations: Solar Expansion, Storage Dispatch and Energy Governance



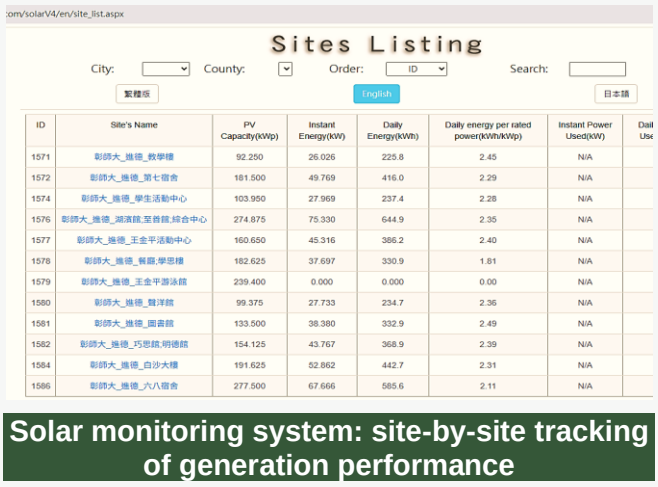
Three-stage expansion pathway for solar PV capacity

NCUE's solar PV capacity has grown from 467 kWp before 2020 to 3,129.875 kWp, and is planned to reach 4,097.875 kWp before 2030, generating over 5.12 million kWh a year. Solar power will then be able to meet peak demand on both the Jinde and Shida campuses in full, achieving carbon neutrality at peak load — a core element of NCUE's pathway to campus-wide carbon neutrality in 2045.

Energy storage and energy-saving measures are being implemented in tandem: a 1 MW/1.26 MWh energy storage system and two 100 kW/50 kWh energy storage units have been installed and are currently in operation at the university campus. By storing energy during off-peak hours and discharging it during peak periods, the campus has reduced its peak electricity load and lowered its contracted capacity from 835 kW to 785 kW. Under NCUE's Energy Conservation and Carbon Reduction Implementation Guidelines, NCUE invests at least NT$5 million a year to replace energy-intensive equipment. Electricity use has fallen by nearly 18% over the past 15 years, and NCUE aims to cut the annual electricity use of existing equipment by a further 1.3 million kWh by 2029 compared with 2022, supporting the 2045 carbon neutrality target.

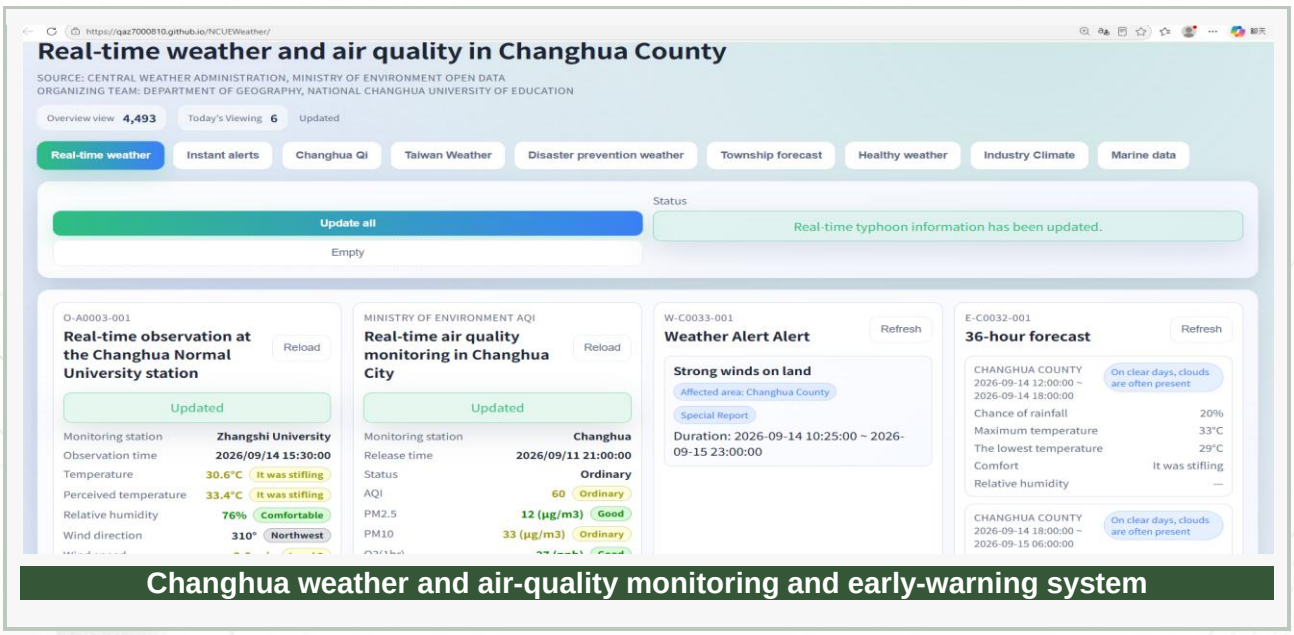


Low-carbon energy share rising year by year



Solar monitoring system: site-by-site tracking of generation performance

Climate Research and Monitoring for Government Decisions



Changhua weather and air-quality monitoring and early-warning system

NCUE faculty deliver climate research, environmental surveys, long-term monitoring, and remote-sensing analysis to central and local governments, supporting the identification, early warning, and adaptation planning of climate hazard risks. Studies span precipitation and water vapor change in the Asian monsoon region under global warming, coastal landforms and aquaculture environments in Changhua, spatial information and risk assessment for sediment disasters, landscape conservation on Bagua Mountain, and socio-ecological observation of Changhua's coast and foothills. NCUE also built Changhua County's real-time weather, disaster prevention, and air quality monitoring system, which integrates meteorological and environmental information for local government and residents.

Planning for red imported fire ant and yellow crazy ant control, together with AI-assisted citizen science surveys of urban disease vectors, further helps agencies reduce risks from invasive species and disease vectors. Through interdisciplinary research, collaboration with government, and local participation, NCUE strengthens local capacity to respond and adapt to climate change and extreme events.

Climate Education and NGO Partnerships: Growing Adaptation Capacity Locally



Hard clam habitat survey at Xinbao Wetland, Fangyuan



Offshore wind field study on the Fangyuan coast, Changhua

In 2025 NCUE ran 5 climate education projects funded by the Ministry of Education, the National Science and Technology Council, and USR programs, covering curriculum design, field participation, community engagement, and local action: “From Theory to Practice — Climate Change and Sustainability”; “Climate Resilient Development and Adaptive Governance: Framing Just Transition into a Participatory Policymaking Approach”; “Resilient Changhua Coast: Climate Change and the Sustainability of Changhua’s Coastal Environment and Industries”; “Ecological Healing and Green Sustainability: Changhua Ecological Art Project”; and the “Blue Ocean Changhua Offshore Wind Power Project.” The Resilient Changhua Coast project draws on biology, ecology, aquaculture, geography, and environmental education. It offers 18 interdisciplinary courses and 24-, 33-, and 100-hour certification courses in climate change environmental education and carbon inventory, and has trained 91 intertidal citizen scientists; in 2025 it held 29 environmental education activities with about 800 participants. NCUE also offers the courses “Environmental Change and Human Civilization,” “Earth Science I,” “Climate Change and Environmental Sustainability,” “Climatology,” and “Hydrology.”

Field-based education combines site visits, guest lectures and hands-on practice. The Department of Biology team held spring and summer hard clam habitat surveys and the “Hard

Clam Detective Squad" activity at Xinbao Wetland in Fangyuan Township, Changhua County, and trained citizen scientists to take part in wetland monitoring. The Department of Geography team took students to the Taichung District Agricultural Research and Extension Station to learn about low-carbon rice production and invited experts to guide students through greenhouse gas inventory and product carbon footprint calculations. A field survey of offshore wind power on the Fangyuan coast let students observe wind farm operations on site and examine the trade-offs among renewable energy development, local communities, and ecosystems, deepening their understanding of climate risk and the energy transition and their capacity to act.





Horticultural therapy workshops and community ecological capacity-building tours

On the NGO front, NCUE ran 5 collaborative projects with NGOs in 2025, covering ecological art, fisheries and wetland sustainability, climate resilience governance, and invasive species control. The Department of Fine Arts USR project "Ecological Healing and Green Sustainability: Changhua Ecological Art Project" (2025–2027) links the "Art and Alternative Therapies" course with Changhua Christian Hospital, Zhongzhang Veterans Home, and the Changhua Active Aging Learning Center to deliver 26 horticultural therapy workshops with 966 participant visits. A joint exhibition with Providence University, "A Travel Guide for Grey-faced Buzzards: Encounters in Four Seasons," drew about 292 visits. These activities bring climate and ecological issues into the daily lives of different generations and extend adaptation education from the campus into local communities.

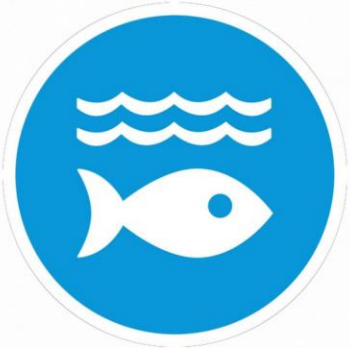
Conclusion: Making Decarbonization Verifiable in Daily Practice

NCUE will keep working toward carbon neutrality by 2045 through energy saving, renewables, storage, and industry–academia collaboration. On campus, NCUE will expand solar PV capacity and deepen energy and contracted-capacity monitoring so that every

kilowatt-hour saved is measured and tracked. Beyond campus, NCUE will sustain climate research, hazard monitoring, and environmental education, turning scientific data into decision-ready information for government, and will work through USR projects and NGO partnerships so that climate adaptation takes root in Changhua’s communities, industries, and campuses.

SDG 14

Life Below Water



National Changhua University of Education

2026 NCUE Sustainable Development Annual Report

SDG 14 Life Below Water

Life Below Water | SDG 14

Cross-Disciplinary Collaboration, Local Engagement, Sustainable Co-Prosperity

National Changhua University of Education (NCUE), guided by its core spirit of cross-disciplinary collaboration, local engagement, and sustainable co-prosperity, integrates the research strength of its Environmental Education Center, Department of Geography, and Department of Biology to connect government agencies, local industries, and primary and secondary school partners, translating cutting-edge science into concrete freshwater and marine conservation actions. In 2025, NCUE actively advanced the “Resilient Changhua Coast” USR project and the “Coastal Clam Habitat Survey” project, achieving outstanding results in the Hanbao and Xinbao wetlands, substantially raising clam farming success rates and doubling habitat biodiversity. At the same time, the University enforces extremely strict on-campus wastewater monitoring and 100% compliant drinking-water management, while promoting public marine education off campus — comprehensively advancing UN SDG 14 and creating new opportunities for coastal ecosystems and local communities to thrive together.

Key Figures

Over 70%	37 Species	91
Clam Farming Success Rate	**Benthic Biodiversity Restored**	**Intertidal Citizen Scientists Trained**

Highlights at a Glance



Using Waste Shells to Build Bioreefs and Improve the Hanbao Wetland Environment

This year's three major qualitative highlights cover “Resilient Fisheries and Habitat Restoration,” “Hand-in-Hand Science Education,” and “Smart Coastal Monitoring and Green Campus Governance.” Through academic expertise and diverse social networks, the University extends from campus into wetlands, driving local economic development, safeguarding ecological diversity, and cultivating future talent for marine sustainability.

Resilient Fisheries: Ecological Restoration of the Hanbao Wetland and Upgrading of the Clam Industry



Guiding Caohu Junior High School Students to Become Young Citizen Scientists and Restore Blue Carbon Wetlands

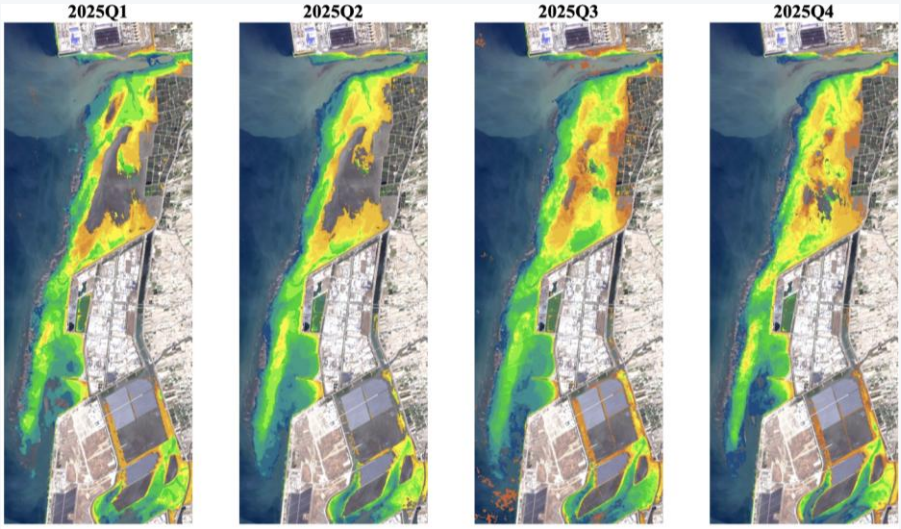
The University's Environmental Education Center is actively carrying out the Ministry of Education's Fourth-Phase University Social Responsibility (USR) project, “Resilient Changhua Coast: Sustainability of Changhua's Coastal Environment and Industries under Climate Change.” The project innovatively combines academic theory with field practice, offering distinctive courses such as “Coastal Biological Resources” and “Sustainable Development and Practice of Coastal Biological Resources.” To combat climate change, the project has formed a professional water-quality monitoring team that regularly assists Changhua's coastal aquaculture farmers with scientific water- and sediment-quality testing and management, successfully guiding clam farming and raising the clam farming success rate to over 70%, building technological resilience for the local aquaculture industry. At the same time, the project promotes “recycling of discarded shells” for coastal ecological conservation, using waste oyster and clam shells to build ecological restoration reefs. This has effectively improved the grain-size distribution and subsurface oxygen permeability of the intertidal wetland substrate. Monitoring results show that the number of benthic species in the Hanbao wetland has significantly increased from 14 to 37, with biological carbon sequestration reaching 3.86 times that of an unimproved control site — demonstrating remarkable biodiversity and blue-carbon sequestration benefits. In addition, the Environmental Education Center cultivates lotus flowers at the campus's Baisha Lake, regularly harvesting lotus seeds and making lotus tea, demonstrating to the campus community the sustainable harvesting and recycling of resources from the aquatic ecosystem's food web.

Rooting Science and Education: The “Hand-in-Hand” Young Ocean Citizen Scientist Initiative

To help sustainability take root in schools, the Department of Biology has combined the USR project with coastal schools — Caohu Junior High School, Hanbao Elementary School, Fangyuan Elementary School, and Houliao Elementary School — to run a “Hand-in-Hand” marine education model. University faculty train Caohu students as “young citizen-scientist seeds,” who then guide younger students into the intertidal zone for ecological surveys and clam identification, linking the university, schools, communities, and industry. Caohu Junior High, long committed to marine education, won the Ministry of Education's “Marine Education Promoter Award” with distinction in 2021 and 2025. In 2025 alone, the project completed four clam-habitat surveys, 50 volunteer and seed-teacher participations and seed teachers, ran five “Young Ocean Citizen Scientist” camps reaching 146 participants, and held three outdoor field sessions reaching 73 participants. Covering water quality, sediment analysis, benthic surveys, blue carbon, and eco-friendly aquaculture, the program has trained 91 intertidal citizen scientists, boosting local and youth interest in marine conservation and ecotourism.

Smart Monitoring: Coastal Topography Retrieval and Campus Water Governance

In terms of cutting-edge off-campus scientific monitoring, the Department of Geography conducts a research project on the long-term impacts of natural forces such as typhoons and the northeast monsoon, as well as large-scale human development such as offshore wind power and floating solar farms, on the topography of Changhua's intertidal zone. The team integrates multi-temporal satellite imagery from Sentinel-1, Sentinel-2, SPOT, and Landsat, and innovatively combines it with U-Net deep-learning classification to develop the “LogiTide2DEM” intertidal topography retrieval method. This has successfully produced quarterly digital elevation models of the Changhua tidal flats from 2017 to 2025, providing large-scale trends in substrate grain size and sediment change that offer crucial scientific data to support the sustainable governance of coastal wetlands.

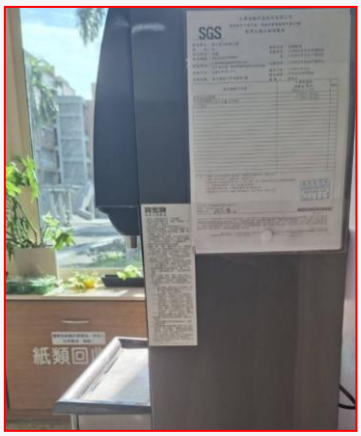


Quarterly Intertidal Topography of Changhua's Hanbao Tidal Flat in 2025

In terms of standardized on-campus water resource governance, the University enforces strict water-quality and discharge standards. Wastewater from both the Jinde and Shida campuses is fully piped and treated uniformly at the University's own wastewater treatment plant, with annual calibration of effluent flow meters and sludge removal every two years. For campus drinking-water safety, the University maintains 249 water dispensers and commissions an externally accredited testing agency each quarter to randomly inspect 60 of them; the coliform bacteria pass rate reaches 100% (all below the national standard of 6 CFU per 100 mL), with complete test reports posted beside every dispenser for staff and students to review — ensuring transparent and safe management of water and daily campus life.



Sludge Removal and Treatment Operations



Test Reports Posted Beside Water Dispensers for User Review

Conclusion: Cross-Disciplinary Blue Ocean Sustainability Collaboration

National Changhua University of Education's substantial achievements in SDG 14, Life Below Water, demonstrate the seamless integration of academic research, talent cultivation, and social responsibility. Going forward, the University will continue to realize the shared prosperity of “environment–industry–community” and deepen cross-disciplinary blue sustainability collaboration.

On one hand, we will continue introducing cutting-edge AI and remote-sensing technologies to expand smart monitoring of coastal wetlands and fragile ecosystems. On the other hand, the campus will further implement green, low-carbon governance — including comprehensive plastic reduction (phasing out disposable tableware, single-use plastic straws, and packaged bottled water at the source), promoting a zero-waste campus, and offering general education courses such as “Introduction to Marine Life Science” and “Water Resources and Human Civilization” through the General Education Center to deepen faculty and student sustainability literacy. NCUE will continue to serve as a bridge for local and international sustainability partnerships, jointly safeguarding a beautiful, abundant, and sustainable aquatic ecosystem.

SDG 15

Life on Land



National Changhua University of Education

2026 NCUE Sustainable Development Annual Report

15 Sustainable Development Goals

SDG 15 Life on Land

Life on Land | SDG 15

Local Care, Cross-Sector Governance, Shared Habitat Stewardship

Guided by local care, cross-sector governance, and shared habitat stewardship, NCUE connects government, industry, communities, and NGOs to turn academic research into concrete ecological conservation. In 2025, the Department of Geography surveyed ten potential landscape sites in southern Baguashan, while the Department of Fine Arts promoted ecological healing through a USR project. The Department of Biology has been controlling the invasive yellow crazy ant at the Gaomei Wetlands and Kenting National Park, while promoting clam habitat restoration and marine citizen-scientist education along the Changhua coast. On campus, the University safeguards biodiversity through separate water and sewage systems, biennial sludge removal, safe lab-waste disposal, and a sustainable campus farm.

Key Figures

10 sites	35,249 ants	28,189.7 kg
Landscape Conservation and Documentation	**Invasive Species Control and Biodiversity**	**Campus Plastic Reduction Results Over the Past Three Years**

Highlights at a Glance



Xiangshan Community Guide Volunteers on the Xiangshan Trail in Dongfang Park

Conducting Ecological Interpretation Tours

Our Ecology, Our Home

The impact of what happens on land is not limited to any one place — environmental cycles eventually return it to affect us all. Only shared governance and cooperation can make our home sustainable.

Landscape and Ecological Art: Baguashan Conservation and Community Outreach

The Department of Geography is carrying out the “Changhua County Landscape Conservation Promotion Project,” completing an inventory of ten potential natural landscape sites in southern Baguashan (Shetou, Tianzhong, and Ershui), and holding public science events and a “Mineral and Rock Soap Workshop” at Shengyang Hall, guiding participants through field observation and geological cross-section simulation. Meanwhile, the Department of Fine Arts advances the “Ecological Healing, Green Sustainability” USR project, engaging the Xiangshan community through field studies, guide-volunteer training, climate lectures, and green healing workshops, with hundreds of residents participating. Combining “geological science” with “ecological art,” the project embeds landscape conservation into community daily life.

Cross-Sector Protection: Monitoring, Control, and Community Governance of Invasive Species

Facing invasive species threats, the Department of Biology undertakes ecological control projects commissioned by central and local governments. At the land-crab habitats of the Gaomei Wetlands, the team monitors and controls the invasive yellow crazy ant, which threatens crab survival, applying liquid bait monthly from April to September alongside manual bait-trap removal. This year the team captured 35,249 worker ants, 579 queens, and 117 queen pupae, significantly reducing population density and damage. The team also assessed six yellow crazy ant super-colonies at Kenting National Park, and helped establish a real-time “Technomyrmex (Odorous) Ant Prevention LINE Community” for residents facing flying-ant damage in Kaohsiung's mountains, promoting lighting changes and non-toxic control. On campus, regular inspections control biting midges, the Brown-legged Ant, and Mikania micrantha, and surveys confirm no IUCN Red List species are present — safeguarding biodiversity through multiple measures.



Placement of yellow crazy ant Bait Traps (a); Staff Removing and Collecting Captured Ants (b, c)

Habitat Co-Prosperity: Coastal Wetland Restoration and Young Ocean Citizen Scientists

The Environmental Education Center and Department of Biology, with the “Resilient Changhua Coast” USR project, have partnered with the Changhua County Ocean Food Research Production Cooperative and coastal schools (Caohu Junior High, Hanbao, Fangyuan, and Houliao Elementary) to conduct clam habitat surveys, substrate improvement, and citizen-scientist training at the Xinbao Wetland. The project's “Hand-in-Hand” model has Caohu Junior High students — winners of the Ministry of Education's “Marine Education Promoter Award” — lead elementary students through water-quality testing, sediment analysis, species identification, and shell-based substrate trials. This year, the project completed four habitat surveys, trained 50 volunteers, and held five “Young Ocean Citizen Scientist” events with 146 participants. The Center also offered 24-, 33-, and 100-hour environmental education certification courses, cultivating local and national green talent.



Winter Clam Habitat Survey and Volunteer Training



Leading Children Through Hands-On Observation

Low-Carbon Green Campus: Maintenance and Safe, Sustainable Resource Governance

The University embeds sustainable management into daily governance at both campuses. Water and sewage pipelines are separately routed, with sewage pipes below water pipes to prevent cross-contamination, and sludge is removed campus-wide every two years. Laboratory waste is cleared every six months per the “Laboratory Waste Disposal Guidelines” and safely transported to National Cheng Kung University's Environmental Resource Center. The campus prohibits free plastic bags and single-use straws, recycling 28,189.7 kg of plastic over three years. It also emphasizes green landscaping around the Wang Jin-pyng Activity Center, and the Department of Biology's campus farm sustainably grows papaya, guava, mango, and other crops — building a micro-habitat that promotes urban biodiversity.

Conclusion: A Resilient, Green, and Sustainable Home

NCUE has demonstrated the deep integration of academic research and community practice in SDG 15, Life on Land. Going forward, the University will deepen partnerships with the Changhua County Government, the National Park Service, local industries, and coastal schools, introducing GIS surveys and species DNA technology to bring scientific rigor to invasive species control and landscape conservation. We will also keep expanding “marine citizen scientist” education, embedding conservation awareness and a plastic-reduction circular economy into higher education and community empowerment — safeguarding Baguashan and the Changhua coast to create a green, resilient, and harmonious sustainable home.

SDG 16

Peace, Justice and Strong Institutions



National Changhua University of Education

2026 NCUE Sustainable Development Annual Report

16 Sustainable Development Goals

SDG 16 Peace, Justice and Strong Institutions

Peace, Justice and Strong Institutions | SDG 16

Democratic Shared Governance and Transparency for an Inclusive, Just, and Sustainable Campus

Guided by the principle of "diverse participation and democratic shared governance," NCUE protects the rights of all parties through institutionalized elections of representatives and democratic decision-making. The Information Disclosure Section on the NCUE homepage publishes information on university affairs, evaluations and reports (including Institutional Accreditation and Teacher Education Evaluation), research procurement, internal control, and information security and personal data protection. Local stakeholders can review this information online and use it to offer NCUE diverse advice, guidance, and oversight. To implement its integrity policy, NCUE runs an Integrity Promotion Zone that raises awareness of small-value procurement, conflict-of-interest recusal, property declaration, and integrity and ethics rules for civil servants. NCUE has also adopted guidelines on handling workplace bullying complaints and on preventing sexual harassment and gender discrimination, working with its community to build an outstanding campus that is corruption-free, supportive, and mutually respectful.

Key Figures

38 Courses

Law, Public Governance and Law Enforcement

32 Events

Platforms for Discussing Diverse Issues

Highlights at a Glance



NCUE University Information Disclosure Section

Open Information, Stronger Campus Governance

NCUE's University Information Disclosure Section publishes information on university affairs, finances, tuition and fees, student financial aid, and the implementation of internal control and internal audit. Stakeholders can consult it to review and monitor NCUE's operations, which reinforces transparency and accountability.

Building Campus Excellence Together: A Multi-Stakeholder Governance System

At NCUE, faculty, students, staff, alumni, and other community members take part in meetings and committees that discuss and review all aspects of university operations. Institutionalized representative elections and democratic decision-making protect the rights of all parties and advance NCUE's sustainable development and excellence, reflecting its commitment to "diverse participation and democratic shared governance." The key bodies are as follows:

1. University Council: Its members include the President, Vice Presidents, heads of first-level administrative units, college deans, representatives of department chairpersons and graduate institute directors, and representatives of faculty, research staff, administrative staff, and students, forming a complete governance structure. Faculty representatives hold at least half of the seats and student representatives at least one-tenth, so the Council fully hears faculty and student voices.

2. Labor-Management Meeting: Labor and management each have six representatives, who meet regularly to discuss working conditions, plan labor welfare, and coordinate labor-management relations, protecting employees' rights and fostering cooperation between the two sides.

3. Multi-Stakeholder Committees: NCUE also has 11 other meetings and committees with elected representatives, including the Teacher Appeal Review Committee, Student Grievances Committee, Gender Equity Education Committee, and University Affairs Development Committee. Covering faculty and student rights, university development, gender equality, and teaching evaluation, these bodies make campus governance comprehensive.

Supporting Student Self-Governance: Encouraging Youth Participation in Public Affairs

With NCUE's active support and guidance, students founded the NCUE Student Association (the students' union), which is now in its 29th term. Guided by democratic values and a commitment to campus harmony and student well-being, NCUE actively encourages students to take part in student affairs. All undergraduate students elect the Association's president and vice president. As both a student self-governing body and a self-governing

student club, the Association serves mainly as a communication bridge between students and NCUE. It voices students' opinions and needs and selects representatives for major meetings, including the University Council, Administrative Meeting, Academic Affairs Meeting, Curriculum Meeting, and Student Affairs Meeting, where they share their views and engage in constructive dialogue with NCUE. It also convenes university-wide club meetings to share information and connect with other types of student clubs, and it uses online platforms to relay student opinions and advocate for student rights, ensuring that student voices inform NCUE's governance and decision-making.



Group Photo at the 2026 National Student Association Achievement Exhibition

An Ethical, Supportive Campus: Zero Tolerance for Corruption, Bullying, and Harassment

To implement its integrity policy and actively support government policy outreach, NCUE has set up an Integrity Promotion Zone on its website. The zone covers four themes (small-value procurement, conflict-of-interest recusal, property declaration, and the Integrity and Ethics Directions for Civil Servants) and presents government regulations, FAQs, and real cases. NCUE also guides public servants who must declare their property in filing accurate annual declarations, fully implementing the property declaration system and affirming their integrity. These efforts pursue a clean and competent government (and

campus) built on integrity, openness, efficiency, and quality. NCUE's information disclosure and administrative transparency measures also give the public a channel to monitor government performance, demonstrating civil servants' integrity and improving administrative efficiency.

To build a healthy and supportive workplace, NCUE implements Article 19 of the Civil Service Protection Act, Article 3 of the Regulations on Safety and Health Protection for Civil Servants in the Performance of Duties, and the Gender Equality in Employment Act. Like other government agencies, institutions, and schools, NCUE has also set up its own mechanisms for preventing and handling workplace bullying and sexual harassment. These include three sets of rules: the Key Points for the Handling of Complaints by NCUE's Faculty and Staff regarding Workplace Bullying; the Guidelines for Prevention and Handling of Sexual Harassment and Gender Discrimination in the Workplace at National Changhua University of Education; and the Guidelines for Prevention and Handling of Sexual Harassment at National Changhua University of Education. When handling cases, NCUE strictly follows standard operating procedures, plans timelines carefully, and monitors deadlines. It also asks all units to look out for their colleagues and to value harmony and mutual respect on campus, preventing workplace bullying and sexual harassment.



Faculty and Staff Training: Integrity and Ethics Seminar



Gender Equality Law and Practice Dialogue: Case Officers' Experience-Sharing Workshop

Conclusion: Toward a Democratic, Transparent, and Supportive Model of Sustainable Governance

National Changhua University of Education (NCUE) places “diverse participation and democratic shared governance” at the core of its governance. Through the University Council, the Labor-Management Meeting, and 11 other bodies with elected representatives, NCUE gives faculty, students, staff, alumni, and other groups a voice in university development. Its Information Disclosure Section and Integrity Promotion Zone publish information on university affairs, evaluations, finances, procurement, and internal control, so that stakeholders can review it, offer suggestions, and exercise oversight. NCUE has also established mechanisms to prevent workplace bullying, sexual harassment, and gender discrimination, safeguarding the dignity and safety of every student, faculty member, and staff member. Looking ahead, NCUE will further deepen institutionalized participation and strengthen transparency, integrity, and accountability in the spirit of SDG 16: Peace, Justice and Strong Institutions, working with its community to build an outstanding campus that is inclusive, just, and trustworthy.

17 Sustainable Development Goals

SDG 17

Partnerships for the Goals



National Changhua University of Education

2026 NCUE Sustainable Development Annual Report

17 Sustainable Development Goals

SDG 17 Partnerships for the Goals

Partnerships for the Goals | SDG 17

Connecting government, industry, NGOs and international partners to widen sustainable impact

NCUE partners along four strands: cross-sector governance, international exchange, educational outreach and local collaboration. Working with government, industry, NGOs, overseas universities and community organisations, it turns research, talent development and public service into durable joint results. In 2025 NCUE recorded 52 representative policy, research and advisory collaborations, aligning with the 17 SDGs on 177 occasions, and ran or joined 15 cross-sector forums with government and NGOs, 10 international conferences, 17 transnational collaborations and 14 NGO partnerships. In 2024–25 it offered 1,721 SDG-related courses with 49,771 enrolments, carrying partnership from governance into the classroom and the community.

Key Figures

52	56	49,771
Representative collaborations	**Forums, exchanges and NGO partnerships**	**Enrolments in SDG courses**

Highlights at a Glance



Partner university exchange in Indonesia: advancing academic collaboration

Working with global partners to extend sustainable action

Joint research, institutional visits, overseas internships and international courses give students cross-cultural experience in real settings. NCUE ran 17 transnational collaborations, agreed to develop a dual-degree programme with Universitas Gadjah Mada (UGM), Indonesia, deepened cooperation with KMUTT (Thailand), signed a memorandum with IIT Gandhinagar (India), and hosted the ICALT 2025 conference.

Partnership in Governance: From Institutional Governance to Low-Carbon Industrial Transition



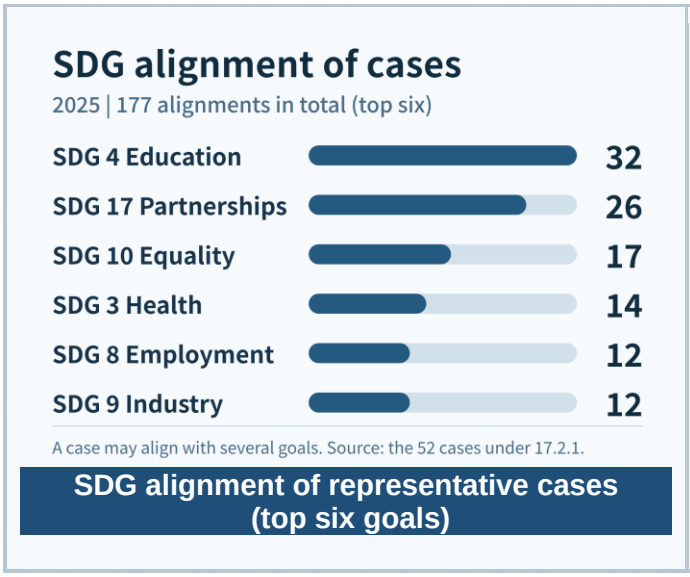


Site visits to Siliconware Precision Industries and industrial-park manufacturers: matching research capacity to industry needs

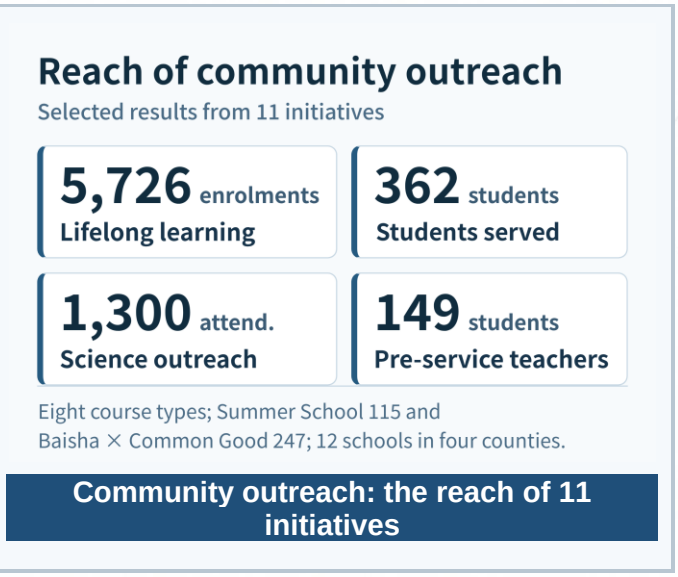
NCUE advances partnerships with sustainable impact through administrative governance, academic research and professional advice. In 2025 it recorded 52 representative collaborations: 20 government policy and institutional governance programmes, 16 faculty research projects aligned with the SDGs, and 16 advisory appointments on government or non-governmental bodies. Together this work aligns with the 17 SDGs on 177 occasions. The topics span educational equity, smart manufacturing, energy management, climate action and low-carbon industrial transition, and NCUE advances SDG policy goals through site visits and diagnosis, policy advice and talent development.

Under an industry–academia training programme, NCUE and Siliconware Precision Industries run a semiconductor practitioner class: the company provides 30 positions a year and assigns 14 experienced instructors, and the curriculum combines process technology, equipment operation and quality management to narrow the gap between study and work. President Ming-Fei Chen serves as co-principal investigator of the NSTC Central Taiwan Cross-Campus Research Commercialisation Platform, leading 11 faculty from different disciplines within a ten-university alliance that focuses on smart manufacturing, machine networking and cloud data, smart materials and green energy. The platform established under that project matched NCUE faculty with a rubber manufacturer to develop a green bicycle tyre prototype using silica (white carbon black) and recycled carbon black, with soybean oil replacing petroleum-based processing oil; it received Changhua County SBIR funding in two consecutive years and was exhibited at the Taipei International Cycle Show in 2025. NCUE also runs programmes in smart technology for industrial parks, cross-regional

low-carbon transition and local industry innovation, visiting and diagnosing local manufacturers and introducing equipment networking, AI image recognition, energy monitoring and carbon inventory. On campus, a Ministry of Education energy-efficiency programme installed smart meters on 812 circuits and an integrated energy-management system at 37 locations across the two campuses, and a memorandum with Taiwan Power Company covers the planned Shida Campus microgrid, whose 1,200 kW/1,806 kWh containerised storage system is designed to supply critical loads for more than four hours during an outage.



SDG alignment of representative cases (top six goals)



Community outreach: the reach of 11 initiatives

Transnational Co-Creation: Connecting Global Partners through Research and Exchange



International academic exchange bringing research partners together

Through international conferences, joint research, institutional visits and memoranda of understanding, NCUE has built knowledge and talent networks with partners in Indonesia, Malaysia, Japan, Thailand, India, Europe and North America. It ran 17 transnational

collaborations: a delegation held talks with more than ten Indonesian universities and research institutes and agreed to develop a dual-degree programme with Universitas Gadjah Mada (UGM); NCUE signed a memorandum with Yamato Juken Co., Ltd. (Japan) and sent three students there on internships; it deepened cooperation with KMUTT (Thailand) and signed a memorandum with IIT Gandhinagar (India); and it signed an arts exchange agreement with the British non-profit Something Useful Project (SUP) and hosted ICALT 2025. For student mobility, the Ministry of Education Study Abroad and New Southbound Study Abroad programmes sent 28 students to Canada, Japan, the United States, Malaysia and Indonesia for study and exchange. NCUE also implemented the TEEP project, drawing 187 overseas students from nine countries over the two most recent academic years.





Reciprocal visits with international partners and international academic conferences: building long-term collaboration networks through dialogue and exchange

Education at the Roots: From Sustainability Curricula to Community Well-Being

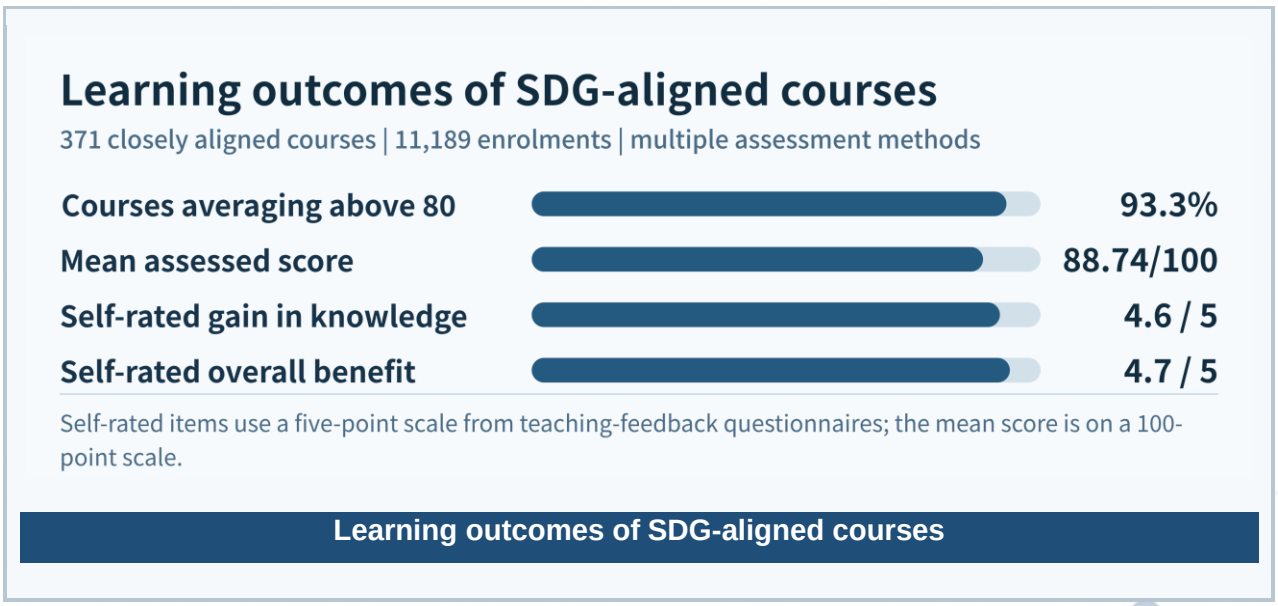


A dedicated health-care class cultivating Indigenous professionals and responding to the needs of an ageing society



“NCUE x Common Good” rural education service – English activities

NCUE is Taiwan's second-largest teacher-education university and embeds the SDGs systematically in curriculum design and assessment. In the 2024–25 academic year, 1,721 courses carried SDG-related objectives, amounting to 4,241 credits and 49,771 enrolments across human rights, Indigenous peoples, gender equality, environment and energy, the rule of law and international education, and the Center for General Education ran about 17 lectures, attracting about 1,545 attendances. Beyond the total number of courses offered, NCUE also examined learning outcomes: an analysis of 371 closely aligned courses covering 11,189 enrolments found an average of 7.57 SDG literacy areas per course, 93.3% of courses with a mean score above 80, and an overall student mean of 88.74. Students rated these courses 4.6 for improving their knowledge and professional skills and 4.7 for overall benefit, on a five-point scale. Those judgements rest on a deliberately varied mix of assessment methods — class participation (66%), written reports (41%), final examinations (39%), practical exercises and project presentations — so that understanding is tested in more than one way.



Learning outcomes of SDG-aligned courses

NCUE also extends educational outreach into the community and the rural districts of central Taiwan. Science FUN Day 2025 invited more than ten partner schools and drew over 500 participants, with hands-on booths and themed science zones open to local residents on the day. At Baisha Summer School, which NCUE has run since 2011, 55 pre-service teachers took on administrative and teaching roles in three Changhua secondary schools and helped 115 new students settle into school life. The Schweitzer education service sent a further 25 pre-service teachers to Xianxi Junior High School, where game-based and cooperative learning supported academic progress and character education. The NCUE x Common Good project, running since 2020, worked with eight schools in Changhua, Yunlin, Taichung and Tainan, where 69 student volunteers supported 247 students in their schooling.

The Resilient Changhua Coast project addresses the shellfish-farming losses caused by extreme heat, intense rainfall and water pollution along the Changhua coast, offering innovative courses that develop local talent to strengthen the environmental sustainability and social resilience of coastal settlements. A long-term care training scheme with Changhua Christian Hospital prepares Indigenous students for long-term care work, addressing the uneven supply of care in tribal communities. Faculty members take part in a range of NGO collaborations, serving as Vice President of the Taiwan Association for Human Rights, as the first Committee Member from Asia of the Kandersteg International Scout Centre (KISC); and the College of Extension Education ran eight categories of lifelong learning course — among them Mandarin, the senior citizens' university and in-service upskilling — with 5,726 participants in 2025.

Conclusion: Making Partnership the Infrastructure of Sustainability

National Changhua University of Education will keep sustainable action at the core of its work, deepening collaboration with government, industry, NGOs, international partners and local communities. Beyond expanding transnational research, dual-degree programmes and talent exchange, it will strengthen its curriculum, learning outcomes and social impact. Through policy engagement, joint research, talent development and educational outreach, NCUE will continue to carry its expertise beyond the campus, ensuring that every collaboration responds to a clear need and remaining a trusted partner in local and international networks.

AFTERWORD

Afterword

From Baisha, Continuing the Journey

The United Nations' 17 Sustainable Development Goals cover a wide range of issues closely tied to everyday life. As a national university, NCUE actively fulfills its social responsibility, starting with care for those around us and working toward a fairer society and a better environment. Over the past year, NCUE has put sustainability into daily practice in four areas: whole-person care, educational outreach, industry and employment, and the environment and communities.

First is whole-person care. In 2025, NCUE provided about NT$34.39 million in financial aid to economically disadvantaged students and offered free campus meal vouchers to ease study costs. It also worked with the Council of Indigenous Peoples and the Changhua County Public Health Bureau to establish the Ying-Yu NCUE Cultural Health Station, the first at a national university in Taiwan, caring for the health of urban Indigenous elders nearby. On campus, student and staff health services reached 9,843 visits, meeting daily needs.

Second is educational outreach. From rural classrooms to senior learning classes, NCUE extends teacher education beyond campus. Its pre-service teachers support hundreds of secondary-school students in rural areas as they learn and grow, and its Senior University runs 28 classes for learners of all ages. Under a Ministry of Education project, NCUE provided teaching induction training for 3,399 beginning teachers nationwide, and, commissioned by the Ministry, it established the Central Taiwan Regional Centre for Gender Equity Education, turning campus resources into regional capacity.

Third is industry and employment. NCUE supports industrial development through research and talent cultivation. In 2025, it carried out 117 industry–academia collaboration projects with funding of NT$81.36 million, and 387 projects of all types with total funding of NT$510 million. NCUE also promotes the TSMC × NUST Semiconductor Talent Development Program, offering a dedicated semiconductor program, and runs an Industry Academy class with Siliconware Precision Industries (SPIL) to cultivate talent for local high-tech industries and connect learning more closely with practice.

Fourth is the environment and communities. Solar PV capacity on both campuses reached 3,129.875 kWp, and low-carbon energy reached 31.85% of energy use, cutting an estimated 1,867 metric tons of carbon a year. Daily water use averaged 129 liters per person. Off campus, discarded shells helped restore the Hanbao Wetland, increasing benthic species from 14 to 37, and NCUE supported Baguashan landscape conservation and invasive-species control. NCUE also won a NT$100 million Taipower grant to expand its smart microgrid. From campus energy to coastal ecology, these actions help people and nature coexist sustainably.

These achievements reflect the combined efforts of our students, faculty, staff, and partners. In THE Impact Rankings 2026, NCUE ranked first nationally in three goals, and also ranked first among medium-sized public universities in the CommonWealth University Citizen Award. These honors belong to all who have walked alongside us and remind us to keep moving forward.

Looking ahead, NCUE will continue to integrate the United Nations' 17 Sustainable Development Goals into teaching and research, cultivating graduates with both professional competence and sustainability literacy. This report records our everyday practice, and we look forward to working with all sectors in a spirit of the common good to realize a sustainable future for our environment.

National Changhua University of Education

Educating for a Sustainable Future

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