



SUSTAINABILITY REPORT  
TAMKANG UNIVERSITY

2020



TAMKANG UNIVERSITY

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## FOREWORD

Tamkang University was founded in 1950 and has been in existence for 70 years while always attaching great importance to campus sustainability. From 2011 to 2013, it won Taiwan's Enterprise Environmental Protection Award for three consecutive years, and was awarded the "Honorary Enterprise Environmental Protection Award." In 2012, Tamkang was a permanent member of the Taiwan Green University Alliance, linking the power of various universities to jointly promote the work of green universities.

Times Higher Education (THE) in the United Kingdom conducts a ranking of university influence and measures the contribution of universities based on the 17 sustainable development goals announced by the United Nations. According to the niche and conditions to participate in this ranking, the university selected 7 sustainable development goals as evaluation items, including the 4th sustainable development goal of the "Quality of Education," the 6th goal of "Water Purification and Sanitation," the 7th goal of "Affordable Clean Energy," the 8th goal of "Employment and Economic Growth," the 11th goal of "Sustainable City," the 12th goal of "Responsible Consumption and Production," and the 17th goal of "Global Partnership."

Based on these 7 sustainable development goals, the report summarizes the university's four aspects of research, teaching, service, and campus governance. It further elaborates on the university's commitment to social responsibility and the efforts to promote the sustainable development of humanity. Under the joint efforts of all faculties and students, Tamkang looks forward to the implementation of the goal of sustainable development within the community.

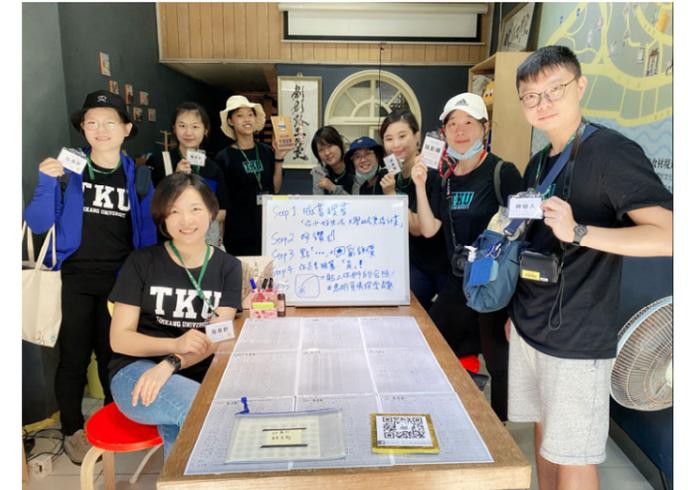
*Dr. Huan-Chao Keh*  
President, Tamkang University





# QUALITY EDUCATION

Tamkang University attaches importance to the social responsibility of universities, bears the responsibility of nurturing national youth and academic research, and aims to serve lifelong education and sustainable management. Not only does it offer many physical or online courses for the public to participate in for free or paid, but also offers Lohas courses especially for the elderly to fulfill the social responsibilities of the university. In addition, TKU makes good use of the energy of faculties and students to organize return home service teams to take care of young people in remote areas and organize community activities to serve local youth.



- ◆ Open Course Views: exceed **339,000** times
- ◆ Extramural Library Cardholders : **2,394** people
- ◆ Campus/ Community Service Participants : **4,892** people
- ◆ Sports Volunteer Service : **1,070** hours
- ◆ Gender Equity-Related Courses : **89** courses
- ◆ Participants in Club Activities : **97,619** people



In terms of handling various activities, the department offers professional knowledge service-learning courses and student clubs to serve communities or elementary schools and high schools; teaching faculties of the Office of Physical Education participated in various neighborhoods and communities in Tamsui District to promote diversified sports courses for the elderly; "University Social Responsibility Practice Project" is committed to promoting social responsibility and SDGs. It has organized various activities, such as picture book sharing, company field river protection activities, and organized a workshop to lead Taichung Zhongming High School to Tamsui to learn about Tamsui's history and culture.



In terms of book resources, free use of library books, audio-visual materials, and electronic resources are provided, and visitors outside of campus may enter the library with a pass.

In terms of paid courses, Lohas courses are offered for elders to learn, such as beginner Japanese, advanced Japanese, basic Japanese reading classes, Japanese singing, music health classes, Mandarin and Taiwanese singing classes, and music video clips, advanced class of form poster design, light travel in Taiwan, mobile phone applications for pandemic and health, photo, music, and video implementation applications, etc.; a variety of licensing courses was established, such as public engineering quality management personnel training class, public engineering quality management training class, construction industry site director training class, waste disposal professional technical personnel training class, environmental medicine professional technical personnel training class, etc.; open physical and online Chinese language courses; second specialty classes for middle school teachers, such as tutors, tutoring expertise in the field of comprehensive activities, Chinese

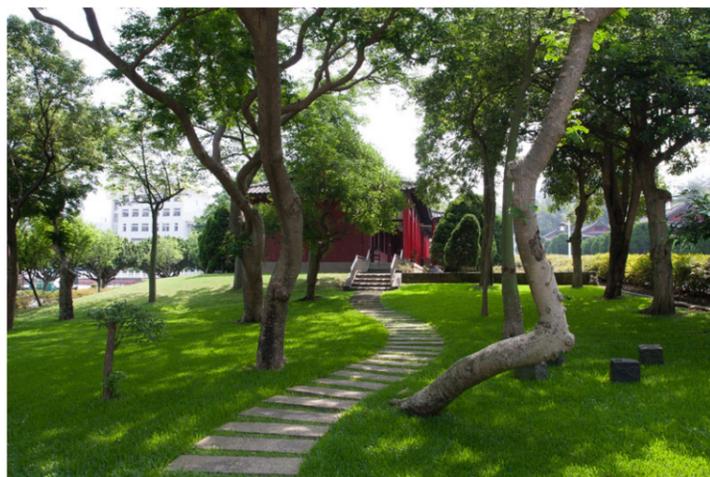


language expertise in the field of Chinese, mathematics in the field of mathematics, civic and social expertise in the social field, etc.; the master's credit class and the bachelor's credit class are attached to the class Reading and other courses are provided for the general public to continue their education and lifelong learning.



## CLEAN WATER AND SANITATION

In terms of water safety, TKU uses tap water that meets the country's drinking water quality standards. Through the inspection management, maintenance, and cleaning of water storage towers, pipelines, and drinking water equipment, and water quality testing, water quality is safe and ensured. For drinking water, according to the country's continuous drinking water supply fixed equipment use and maintenance management method, the sampling operation of 1/8 of the total number of drinking fountains is implemented every quarter, which meets the drinking water quality standards. In addition, the per capita water consumption in 2020 is about 58.08 liters per day. It is better than the average water consumption per capita of domestic colleges and universities of 110 liters per person.



- ◆ Water Consumption Per Capita: **57.83** l/day (average 110 l/day in general universities)
- ◆ Drinking Fountains Provided: **303** sets (second-highest rank nationwide in terms of density)
- ◆ Non-Flushing Technology Urinal: **231** sets (saving 5.06 million liters of water per year)



In terms of water conservation, the Tamsui campus has a green coverage rate of about 58%, and the Lanyang campus has a green coverage rate of more than 80%. The new buildings on the campus conform to the concept of green buildings, emphasizing the water retention function of the base, and effectively retaining rainwater. In terms of reducing the waste of water resources, planting native plants and drought-tolerant plants are used to reduce the water used for sprinkler irrigation; in addition, water-saving marked equipment is used to reduce the water usage in baths and toilets.

In terms of wastewater treatment, campus domestic sewage is taken over to the public sewage treatment plant through the sewer, and discharged after it meets the standards; the waste liquid generated in the laboratory is temporarily stored and collected in the university and is regularly commissioned by the qualified manufacturers of the Environmental Protection Department every semester for transporting.

In terms of community water usage, in addition to continuing to update the use of water-saving labels and other equipment, the water-saving campaign on campus is also committed to water conservation education and publicity through reminder posters in toilets and multimedia publicity (Cyber Channel, The TKU Times) to carry out educational promotion. In terms of water-saving cooperation outside the campus, through the opportunity of the student clubs to go to the countryside during the winter and summer vacations to be rooted in future students; teachers, through the implementation of the plan, combined with the power of the public sector or enterprises, to guide the community to care for the water resources in the village. The environment is part of the university's support for the sustainable use of water resources.

In terms of water resources research, the university's water resources research center, Information Center for Water Environment, and Center for Ocean and Underwater Technology Research continue to cooperate with governmental water resources related departments, such as the Environmental Protection Agency, the Water Resources Department, or the river bureaus in each region. The unit maintains close cooperation to support the practice of water management with the research energy of the academic community and provides opportunities for teachers and students of relevant departments to develop their strengths.





## AFFORDABLE AND CLEAN ENERGY

Since the implementation of the ISO14001 environmental management standard in 2003, TKU has gradually implemented various energy-saving measures. An energy-saving monitoring system was established in 2006, verified campus greenhouse gas emissions based on ISO14064-1 standards in 2013, passed ISO50001 energy management standards in 2015 and achieved the goal of at least 1% annual energy saving rate in freshwater campuses for the past 6 years. From the highest peak of NT \$91.26 million per year, the electricity fee is decreased to NT\$66.28 million in 2020. TKU has also established an "Environmental Sustainability Promotion Committee" to supervise and review the implementation benefits of various energy-saving plans.



- ◆ GHG Emissions : **14,754.63 tCO<sub>2</sub>-e** (6.5% less than in 2019)
- ◆ Energy Use Intensity (EUI) on Tamsui Campus in 2020 : **32.78** (6.18% lower than in 2019)
- ◆ Number of Faculties, Staff, and Students Participating in Environmental Protection-Related Courses or Activities : **26,874 people**





From 2011 to 2013, TKU was awarded the "Corporate Environmental Award" of Taiwan for three consecutive years. In 2017, TKU won the "Energy-Saving Benchmark Award" of the Ministry of Economic Affairs. In 2019, the Hsu Shou-Chlien International Conference Center located in the Tamsui campus won the Green Building Silver Award.

TKU responded to and signed the "Talloires Declaration," and in 2013, cooperated with many colleges and universities to form the "Taiwan Green University Alliance." Since 2019, the President of TKU has served as the supervisor of the alliance. Teaching faculties from the Department of Architecture, Department of Chemical and Materials Engineering, Department of Water Resources and Environmental Engineering, Depart-

ment of Computer Science and Information Engineering, and the Department of Economics cooperated and exert influence in various energy fields.

TKU serves as a role model of "Globalization," leading primary and secondary schools in Tamsui, Lanyang, and even the North Coast area. At the end of 2019, in conjunction with seven elementary schools, local NGOs in Tamsui, and the Tamsui District Office, the "Ecological Sustainable Freshwater Declaration" was issued to jointly demonstrate the determination of ecological conservation and environmental protection, and support low-carbon economy or technology start-ups to implement university social responsibilities.





## DECENT WORK AND ECONOMIC GROWTH

The UN Sustainable Development Goal SDG8 is to promote inclusive and sustainable economic growth and achieve comprehensive and productive employment so that everyone owns a good job. Its main content includes the meaning of performance improvement, inclusive promotion, employment respect, rights protection, and fair treatment. Thus, facing the competition of the

world university rankings and the decrease of birth rate, the quality of faculty and staff is the winning factor for the university's ability to continuously improve its competitiveness. To this end, the university's faculty and staff are recruited openly and fairly. Teaching faculties must be reviewed and approved by the department,

college, and the university, a three-level review committee. After the open recruitment of reserved staff, employees will be recruited according to the best candidates when there are vacancies. At the same time, TKU handles staff promotion examinations according to the "Staff Selection and Promotion Measures," and handles employee performance assessment according to the "Employee Assessment Measures" to ensure the fairness of the promotion examination and performance assessment.



- ◆ Labor-Management Meetings Held from 2017 to 2020 : **14 times**
- ◆ Labor-Related Issues Resolved by the Labor-Management Conference from 2017 to 2020 : **20 cases**
- ◆ Basic Salary Ratio for Men and Women in the Same Position : **1:1**



TKU has established the "Policy of Salary Assessment for Faculty and Staff" and the "Standard Table for Calculation of Faculty and Staff Salary," which clarifies the salaries and promotions of all faculty and staff. The salary of TKU is based on the regulations of national universities, and there are various research and teaching incentives so that the actual salary of teachers is higher than that of most national universities. The average salary of the university's faculty and staff is also within 50% of the national labor salary ranking, to ensure that the faculty and staff can contribute accordingly. At the same time, the full-time faculty and staff are appointed as contracts of indefinite duration, which means that they are guaranteed to work until the legal retirement age; except for those who are unfit according to the law, which then may only be repatriated. The male to female ratio of full-time teaching faculty is 3:2,

the male to female ratio of staff is 3:7, and the ratio of female staff as part-time supervisors is more than 70%. This fully shows that the university attaches importance to gender equality in workplace development opportunities and guarantees gender equality in salary. In addition, the Office of Student Affairs has an Indigenous Student Resource Center, which shows that the university attaches great importance to the employment and well-being of the Indigenous group. This ensures that the university employs faculty and staff based solely on professional competence and experience, and never discriminates the differentiation on race, ideology, religion, party, place of origin, place of birth, gender, sexual orientation, marriage, appearance, or disability.

TKU employs an adequate amount of full-time and part-time teaching faculties according to the provisions of the Student-Teacher Ratio of the Ministry of Education to ensure continuous improvement of teaching quality; in addition, a reasonable job-to-life ratio is set to ensure continuous improvement of service quality. At the same time, to protect the rights and interests of employees, strengthen the communication of opinions, and enhance campus harmony, labor-management meetings are held quarterly; there is also a "TKU Faculty Appeals and Appraisal Committee" and a "TKU Staff Appeals and Appraisal Committee," and according to the relevant regulations, handles the evaluation of teacher complaints and employee complaints to ensure the well-being of teachers and staff. TKU continuously improves the personnel system and policies that meet the needs of the

times, and establish a professional, caring, innovative, trusting, and respectful high-quality work environment so the faculty and staff of this university are given the full play to their talents and wisdom.

TKU continues to strengthen the sustainable development of faculty and staff and the training and learning related to AI innovation and knowledge, hoping to make the university's various developments interlinked and self-sufficient. This further optimizes the human quality of the university, creating a first-class service quality, establishing a professional and caring personnel management system, improving the morale of faculty and staff service and work performance, and formulating the university into a world-class university.



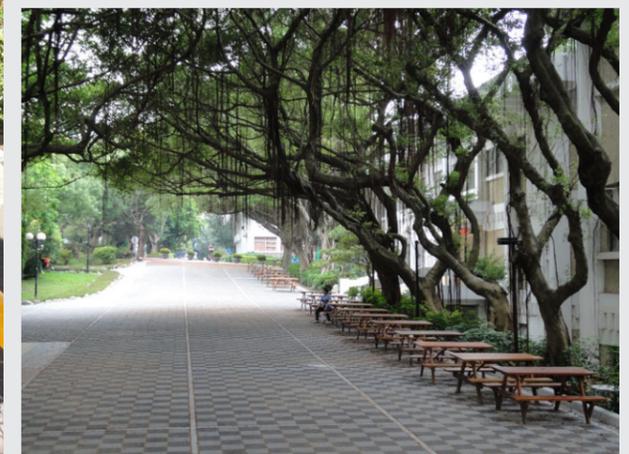


## SUSTAINABLE CITIES AND COMMUNITIES

**K**nown as the "Campus Without Boundaries," the Tamsui campus faces the sunset over Guanyin Mountain and the estuary, with a wide view. The characteristic architecture Chinese Palace-Style Classrooms was built in 1954, with blue tiles and red walls, classical and beautiful, is the starting point for the construction of a permanent school building on the Tamsui campus. The Chinese Palace-Style Avenue is named "HongGang Scenic View" and is listed as one of the most famous, top eight scenic spots in Tamsui. There are 35 monuments and historical buildings in the Tamsui area. The teaching faculties and students of TKU actively participate in the process of designating these cultural assets and protecting the area.



- ◆ Visits of Off-Campus Library Cardholders : **32,444 people**
- ◆ Participants in Art-Related Activities : **14,148 people**
- ◆ Number of Campus Shuttle Bus Rides: **976,178 people**
- ◆ Number of Beds Available in Dormitories : **3,824 beds**





TKU is committed to the creation of an ecological and environmentally friendly campus, and actively promotes "low carbon and environmental protection," "energy-saving measures," "environmental bus," transfer system, etc., and has been awarded "Enterprise Sustainable Development" awards by the country. The campus resides with diversified plant ecology, as the Maritime Museum displays worldwide ship models, the Art Center hosts various events free of charge, and the Library that provides a treasure house of human knowledge are all open to the public. In addition, actively through the designation of environmental education fields, the campus has been constructed as an environmental education base for visiting and learning by primary and secondary schools in the North Coast Area.

Cultural heritage is a gift given from the past and passed on to the next generation in the future. Tamsui, which has a 400-year history of development, is listed as one of the "Taiwan World Heritage Potential Spots" and is also the only street-type potential spot. The university's first local study of "Tamsui Studies" continuously record the events that occurred in Tamsui and the way Tamsui residents gets along with the land to make sure

that the local culture continues to be valued, affirmed, and emotionally connected through the model of personages, documentaries, publications, and topic website construction. The "Tamsui Wiki Museum" established by TKU's teaching faculties combined digital technology and humanistic care, integrates historical research, community management, electronic publishing, video narration, etc., through online/offline co-learning and co-creation which tells the story of the Tamsui region. In recent years, in response to the promotion of the USR project by the Ministry of Education, TKU actively participated in the preservation of cultural assets in the Tamsui area and opened courses and workshops for historical fields. Teaching faculties and students stationed together, conducted observations and interviews, and invited residents to participate, put forward thematic urban preservation action plans, and moved towards the historical field of "living and traveling."

In terms of "providing a safe, affordable, and easy-to-use sustainable transportation system," TKU advocates "bus on campus" to provide a perfect and convenient barrier-free bus service which connects surrounding communities and MRT stations; handle marketing activities such as "ride the

bus and draw prizes" with the passenger transportation company to encourage teachers and students to use public transportation. Gradually promote "Micro-mobility," to achieve the "last mile" through low-carbon ways such as walking, bicycles, and electric vehicles - there is an exclusive pedestrian trail between the light rail TKU Station and the campus; shared public bicycles, buses, and MRT around the campus form a complete and convenient public transportation network; cooperating with electric locomotive manufacturers to introduce battery exchange stations in dedicated locomotive parking lots to serve teachers, students, and the community.

The renovation and redistribution of campus roads and parking spaces are continuously carried out, and the concept of "roads are not only designed for vehicles but should meet the needs of pedestrians" are implemented. The campus central axis road reduces the lane width and limits the speed, providing continuous and spacious permeable pavement sidewalks, and marking sidewalks to ensure the safety of pedestrian movement and space. In addition, pedestrians and recreational spaces are redesigned in areas where faculties and students are intensive in campus activities to create a "people-oriented" campus environment.

TKU provides adequate student dormitories in terms of implementing sustainable housing; the university also provides shuttle bus services for academies off-campus; there is a dedicated unit for housing consultation that provides students with off-campus accommodation options with most of the students walking to the campus. The newly-built Hsu Shou-Chlien International Conference Center of TKU has obtained the silver medal for green buildings, and historical buildings such as Chinese Palace-Styled Classrooms have been renovated in a way of revitalization and reuse. In 2020, the 60-year-old "Ying Yuan" will be reused as the university's "Gallery of TKU History & the Founder Dr. Clement C. P. Chang's Memorial Hall." Through free visits and public displays, the origin, development, and changes of the university are presented, and the founder's contribution to Taiwan's higher education and social progress is demonstrated.



# RESPONSIBLE CONSUMPTION AND PRODUCTION

**TKU** is committed to implementing responsible consumption and production, and formulating policies for "reduction at source," "green procurement," "resource recovery," and "hazard prevention." The food supplied by catering manufacturers are required to comply with relevant safety and sanitation laws and regulations, and local food providers are given priority, and genetically modified foods are strictly forbidden; various campus purchases of products with the first environmental protection mark have been awarded the New Taipei City Government's "Excellent Unit Award for Green Purchasing" for five consecutive years from 2015 to 2019.



- ◆ New Taipei City Outstanding Green Procurement Organization Award Winner for **5** Consecutive Years (2015 — 2019)
- ◆ Amount of Green Procurement : **NT\$3,971,940**
- ◆ Number of Low-Carbon Lunch Boxes purchased : **15,000**
- ◆ Garbage Reused Through the Recycling System in 2020 : about **50,104 kg**



TKU has set up an Environmental Protection, Safety, and Health Center (referred to as the Environmental Safety Center) to strictly manage and properly dispose of hazardous waste produced by teaching experiments according to the regulations by combining with ISO45001 of the occupational safety and health standards to ensure personnel health and environmental safety. The entire university implements the classification of waste, and the restaurants strictly implements the classification and recycling of food waste, and no waste is transported to the landfill. The store does not provide plastic bags and disposable straws, the restaurant uses high-temperature cleaning of reusable tableware, promotes low-carbon lunch boxes, and bringing environmentally friendly eating utensils are highly recommended since individuals are offered discounts; decommissioned equipment used is publicly available for transfer and renewal. Or-



ders made by catering manufacturers must log in to the campus food log-in platform for inspection; policies are extended to supplier outsourcing services and supply chains.

After deducting the amount of garbage generated by the entire university for the sales and feedback of employees, the actual discharge is about 666 metric tons, of which about 100 metric tons of resources are recycled, and the recovery rate is 15%.

The Environmental Safety Center of TKU has implemented the ISO14001 environmental management system for 20 years. Winning the Taiwan Enterprise Environmental Protection Award for three consecutive years from 2011 to 2013, TKU is the first university in the country to receive the "Honorary Enterprise Environmental Protection Award." The center continued to publish information related to sustainable development on the center's website.





## PARTNERSHIPS FOR THE GOALS

**TKU** has 235 international partnered institutions throughout 38 countries around the world. In addition to cooperating with partnered institutions to promote SDGs, it also assists governmental organizations and other non-governmental organizations in implementing sustainable work. TKU has 101 teaching faculties working part-time in governmental units, and 74 teaching faculties working in non-governmental organizations, participating in the formulation of sustainable development goals policies. In 2020, a total of 303 projects related to the government's sustainable development goals was undertaken. Among them, the teaching faculty of the Department of Water Resources and Environmental Engineering of the College of Engineering was employed as an independent director of Taiwan Water Supply Company under the Ministry of Economic Affairs, and a member of the Taipei City Government's



"Taipei Disaster Prevention Expert Advisory Committee" as well as a member of the "Deji Water Reservoir Management Committee" of the Ministry of Economic Affairs to jointly promote the implementation of sustainable development goals; teaching faculties from the Department of Civil Engineering, Water Resources and Environmental Engineering, and Transportation Management assists the Executive Yuan ministries and local governments to review project development and disaster prevention plans. The teaching faculty from the Department of Chinese and the College of Education assist the government in formulating and reviewing education policies and work results for primary and secondary schools; faculties from the Graduate Institute of European Studies serve as the governmental advisory on EU issues and advisory members of the Institute of Labor Relations; the Department of

Economics assists the Cambodian NGO ECC School with the sustainable development goals of the economy and tried to establish a cycle farming system; teaching faculties of the Department of Chemistry assist the government in developing new anti-kidney cancer drugs and biochemical treatment technologies.



- ◆ Governmental contracted SDGs-Related Projects in 2020 : **303 cases**
- ◆ International Academic Seminars : **12 sessions**
- ◆ Cooperation with NPG or NGO for Professional Knowledge Service-Learning Courses in 2020 : **over 20 sessions**
- ◆ Number of Children Served by the Cambodia and Thailand Volunteering Team in 2019 : **500**



Although facing the impact of the COVID-19 pandemic, TKU still managed to host a total of 12 international academic seminars related to sustainable development goals. The Graduate Institute of Futures Studies was invited to participate in the "UNESCO Futures Literacy Summit 2020" video conference hosted by UNESCO in 2020. TKU President, Dr. Huan-Chao Keh delivered a speech at Future Studies Journals Booth, providing a clear introduction of TKU's contribution to the future and proposing the futuristic vision.

In terms of sharing data with foreign allies, the university cooperated with international scholars and published at least 105 journal papers in 2020, and received 13 MAGIC programs subsidized by the Ministry of Science and Technology. According to the SCOPUS database, TKU has research results in different SDG fields, with SDG3,

SDG4, SDG6, SDG7, SDG8, SDG9, SDG11, and various projects being more prominent. Since 2019, TKU's overall sustainability report has been released annually and targeted at SDG4 (Quality Education), SDG6 (Clean water and sanitation), SDG7 (Affordable and clean energy), SDG8 (Decent Work and Economic Growth), SDG11 (Sustainable Cities and Communities), SDG12 (Responsible Consumption and production), SDG17 (Partnerships for the Goals); in 2020, independent reports on the 7 sustainable development goals are issued. Published in 2020, TKU Social Responsibility and Sustainability Report (86 pages), revealed the school's sustainable practices on-campus environment, social practice participation, and school governance for the public's reference.

TKU continues to promote environmental sustainability and offers courses that meet the educational philosophy of sustainable development goals as follows: (1) The general courses of the TKU include "Life Care and Service Experience," "Forest Ecology and Tree Protection," "Ecological Community Construction," and the "Underprivileged Groups and Social Welfare" courses. (2) Humanities courses include "Environmental Ethics" and "Art and Life-Dialogue with Masters" courses, which explore the concept of environmental sustainability from a reflective perspective and convey and practice sustainable values through art; leading students to connect with local culture and expanding the society to participate in and promote sustainable urban and rural area development. (3) In the social field, there are courses in "Happiness Economics," "Human Rights and Social Justice," "Cultural Globalization," "Economic Future," and "Social Future-Urban Future." Students may understand the concept and development of facing globalization, the impact of globalization on national sovereignty, political economy, cultural society, NGOs to individual influences, as well as enabling students to understand the characteristics and content of the current international situation and expand their international horizons. In addition, based on

the spirit of sustainable development, issues within each region may be explored and the current and future challenges that may be faced and understood. (4) In the field of science, there are courses of "Technology Sustainability" and "Marine Technology," which enable students to understand the past achievements of human civilization, current difficulties, and future challenges, and to provide students with the most forward-looking scientific concepts and literacy. The future is to think about the development of emerging technologies, how to respond to social needs and the sustainable development of civilization, and find the best solution.





開放式課程觀看次數：逾 339,000 次  
 校外人士持有圖書館借書證人數：2,394 人  
 2020 年校園與社區服務課程參與人數：4,892 人  
 2020 年體育志願者服務：1,070 小時(因疫情影響服務時數減少)  
 2020 年度性別平等相關課程數量：89 門  
 2020 年參加社團活動人次：97,619 人次

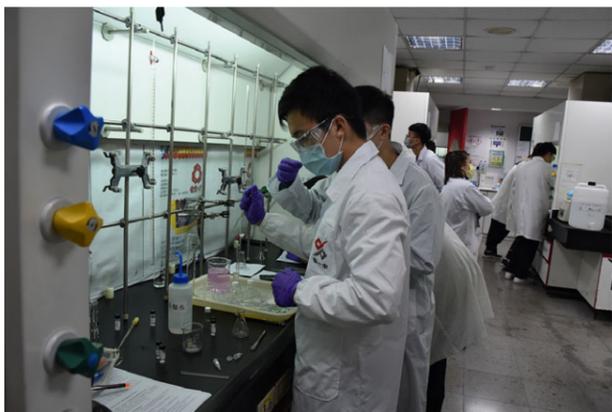
## SDG4：優質教育

本校致力推廣終身學習機會，提供線上學習課程，以「開放式課程 Youtube 頻道」免費開放一般課程與講座課程，為大眾提供高等教育資源。

在辦理各類活動方面，系所開設專業知能服務學習課程及學生社團，至社區或國小、高中服務；體育處教師至淡水區各鄰里及社區進行銀髮族長者多元化運動課程推廣；「大學社會責任實踐計畫」致力推動社會責任及 SDGs，舉辦多項活動，如：繪本分享、公司田溪護溪活動，另舉辦「覓情工作坊」，帶領台中忠明高中至淡水瞭解淡水歷史及文化等。

在圖書資源方面，提供免費使用館藏圖書、視聽資料及電子資源，校外人士憑證入圖書館。

在付費課程方面，開設樂活課程，鼓勵銀髮人士活到老，學到老，包括初級日語、進階日語、日語讀本基礎班、唱歌學日語、音樂養生班、國台語歌唱班、樂學影片剪輯及表格海報設計進階班、「輕遊台灣揪一下」、疫情與健康的手機應用、照片音樂影片實作應用等；開設多種證照課程如公共工程品質管理人員回訓班、公共工程品質管理訓練班、營造業工地主任訓練班、廢棄物清理專業技術人員訓練班、環境用藥專業技術人員訓練班等；開設實體與線上華語課程；開設中等教師第二專長班，如輔導教師、綜合活動領域輔導專長、語文領域國語文專長、數學領域數學專長、社會領域公民與社會專長等；碩士學分班以及學士學分班隨班附讀等課程，供社會大眾持續進修、終身學習。



人均用水量(公升/日)：57.83(遠低於一般大學之 110 公升)  
 全校提供免費飲水機數量：303 台(飲水機密度，全國第二高)  
 全校男廁科技免沖水小便斗：231 座(每年節省 506 萬公升用水)

## SDG6：潔淨水與衛生

本校在用水安全方面，使用符合我國飲用水質標準之自來水，並透過蓄水塔、管線及飲水設備的巡檢管理、保養清洗及水質檢測，確保用水安全無虞。飲用水部分，依據我國飲用水連續供水固定設備使用及維護管理辦法，每季實施飲水機台總數 1/8 的抽測作業，皆符合飲用水水質標準。2020 年人均用水量約為 58.08 公升/日，優於國內一般大專院校每人 110 公升之人均用水量。

在水源保育方面和水源涵養方面：淡水校園綠覆率約 58%，蘭陽校園綠覆率高達 8 成以上；校園新建建築符合綠建築概念，強調基地保水功能，有效留住雨水不讓其成為逕流。減少水資源浪費方面：透過種植原生植物及耐旱植物，減少噴灌用水；另使用節水標章設備，降低浴廁用水。

在廢水處理方面：校園生活污水透過污水下水道接管至公共污水處理場，經處理後符合排放標準才進行放流；實驗室產生之廢液由校內暫存收集，每學期定期委由環保署合格廠商清運處理。

在社區用水方面：校園內節水行動除了持續更新使用節水標章等設備外，更致力於節約用水的教育及宣導，透過廁所內提醒海報，以及多媒體宣導(賽博頻道、淡江時報)進行教育宣導；校園外節水合作方面，透過學生社團寒、暑假服務隊下鄉到中小學的機會，紮根於未來學子；教師則透過計畫的執行，結合公部門或企業力量，引導社區民眾愛護鄉里的水資源環境，都是本校支持水資源永續利用的一環。

在水資源研究方面，本校水資源研究中心、水環境資訊研究中心和海洋及水下科技研究中心等機構，皆持續和政府水資源相關部會，如環保署、水利署或各地區河川局等單位保持密切合作，以學界研究能量支援水域管理實務，並提供相關科系師生發揮所長之機會。

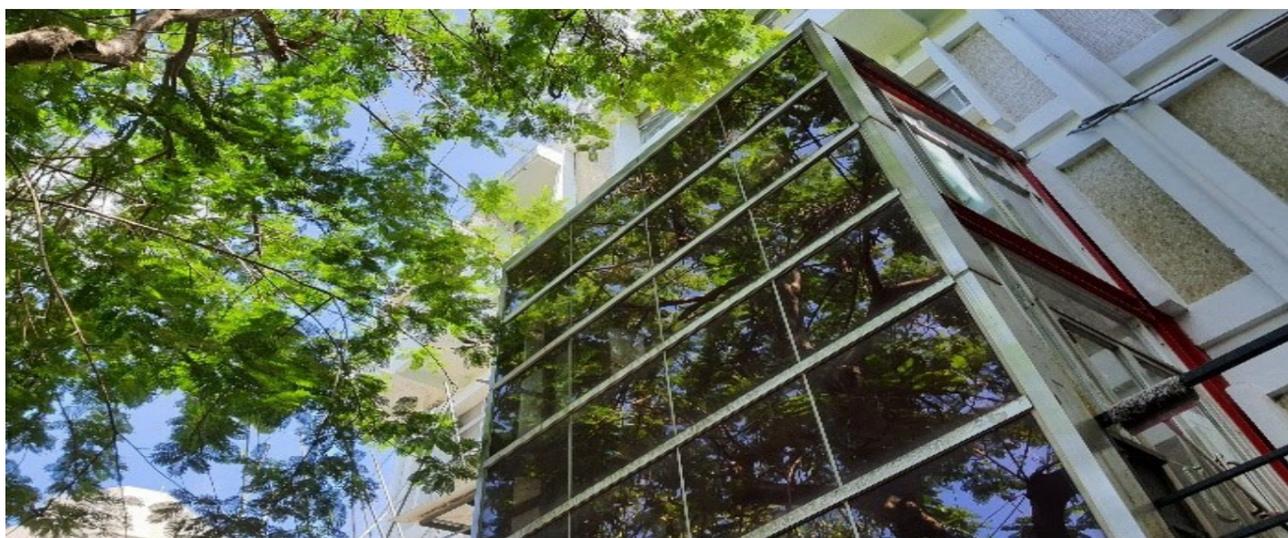


2020 年溫室氣體排放量：14,754.63 tCO<sub>2</sub>-e (較 2019 年減少 6.5%)  
 2020 年淡水校園耗能密度 (Energy Use Intensity, EUI)：32.78 (較 2019 年降低 6.18%)  
 2020 年環保相關課程或活動之教職員工生參與人次：26,874 人次。

## SDG7：可負擔的潔淨能源

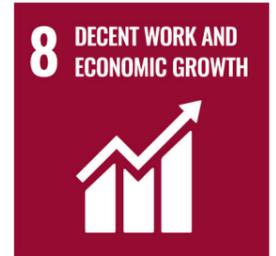
本校自 2003 年實施 ISO14001 環境管理標準以來，逐步落實各項節能措施。於 2006 年建置節能監控系統，2013 年依據 ISO14064-1 標準辦理校園溫室氣體排放量查證，2015 年通過 ISO50001 能源管理標準迄今，達成近 6 年來淡水校園節電率每年至少 1% 的目標，電費也自最高峰新台幣 9,126 萬元/年，於 2020 年降至新台幣 6,628 萬元/年。校內亦成立「環境永續推動委員會」，督導、審查及檢討各項節能計畫之執行效益。

2011 至 2013 年連續三年獲頒中華民國「企業環保獎」，2017 年本校獲得行政院經濟部「節能標竿獎」銀獎，2019 年淡水校園新落成之守謙國際會議中心獲得綠建築銀級標章。



本校響應並簽署「塔樂禮宣言」(The Talloires Declaration)，於 2013 年與多所院校共同催生「臺灣綠色大學聯盟」。自 2019 年起，由本校校長擔任聯盟監事，包含建築系、化材系、水環系、資工系及經濟等系所教師亦投入各項能源領域，透過擔任評審委員、執行研究計畫或負責機關培訓等不同身分，持續與產官學界合作，發揮影響力。

本校擔任「全球在地化」之示範角色，帶領淡水、蘭陽乃至北海岸地區中、小學校共同成長。2019 年底結合七所小學、淡水在地 NGO 團體及淡水區公所，發表了「生態永續淡水宣言」，共同展現對於生態保育與環境保護的決心，並支持低碳經濟或技術的新創企業，落實大學社會責任。



2017 至 2020 年召開勞資會議次數：14 次  
 2017 至 2020 年勞資會議議決勞工相關議題案數：20 案  
 男女相同職務者之基本薪資比例為 1:1

## SDG8：尊嚴就業與經濟成長

聯合國永續發展目標 SDG8 為促進包容且永續的經濟成長，達到全面且具有生產力的就業，讓每一個人都有一份好工作，其主要內容包括績效提升、包容促進、就業尊重、權益保障、公平對待等含意。因此，面對世界大學排名競爭及少子女化壓力，教職員工素質良窳是本校能否不斷地提高競爭力之致勝因素。為此，本校教職員工皆採公開且公正方式進行招聘，教師須經系、院及校三級評審委員會審議通過，職員工則以公開招募儲備人員後，再遇有缺額時，面試後擇優聘任。同時，本校依「職員遴用及升遷辦法」辦理職員升遷考試、依「職工考核辦法」辦理職工成績考核，以確保升遷考試及成績考核之公平性。

本校訂有「教職員工敘薪辦法」及「教職員工薪津計算標準表」，俾利全體教職員工薪資及晉薪明確化。同時，本校薪資皆比照國立大學之規定，另訂有各項研究及教學獎勵措施，使教師實際薪資高於大多數國立大學。本校教職員工平均薪資亦在全國勞工薪資排名 50% 之內，藉此確保教職員工皆能安心地貢獻心力。同時，本校專任教職員工聘任為不定期限契約，即保障其得工作至法定退休年齡；除非依法規定屬於不適任者，方予以資遣。專任教師男女比例為 3：2、職員工男女比例則為 3：7，女性職員工兼任主管比例為 70% 以上，充分顯示本校重視性別平等之職場發展機會，及保障性別薪酬之平等。

另學生事務處設有原住民族學生資源中心，顯示本校重視原住民族之就業福祉，確保本校在僱用教職員工時完全以專業能力及經驗為依據，從未以種族、思想、宗教、黨派、籍貫、出生地、性別、性傾向、婚姻、容貌或身心障礙為由，予以不同考量。

本校依教育部生師比之規定，聘任充足之專兼任教師，確保教學品質不斷地提升；另訂有合理生職比，確保服務品質能不斷精進。同時，為保障職工權益，加強意見溝通，增進校園和諧，每季定期召開勞資會議；另設有「淡江大學教師申訴評議委員會」及「淡江大學職工申訴評議委員會」，並依相關辦法規定辦理教師申訴及職工申訴案件之評議，確保教職員工應有之福祉。期望不斷地精進符合時代需求之人事制度與政策，建立專業、關懷、創新、信任、尊重之優質工作環境，讓本校教職員工皆能充分發揮其才能和智慧。

綜述本校持續加強教職員工之永續發展與 AI 創新知能相關訓練與學習，期使本校各項發展皆能環環相扣、自給自足。進而優化本校人力素質，打造第一流的服務品質，建立專業關懷之人事管理制度，提升教職員工服務士氣及工作績效，打造本校成為國際一流學府。

2020 年校外人士使用圖書館人數：32,444 人  
 2020 年參與藝術相關活動人次：14,148  
 2020 年入校接駁公車載客人次：97 萬 6,178 人次（較 2019 年減少 10.36%）  
 2020 年安裝有 MS Teams 的多媒體教室數量：270 個教室  
 2020 年度學校宿舍可提供床位數量：3,824 個

## SDG11：永續城市與社區

本校淡水校園以「無圍牆的校園」著稱，正對觀音山與河口落日，視野開闊。特色建築宮燈教室興建於 1954 年間，碧瓦紅牆，古典唯美，是目前淡水校園興建永久校舍的起點。宮燈大道以「巒岡遠眺」為名，列為淡水八景之一，也是淡水的重要觀光景點。

擁有四百年發展脈絡的淡水，名列「臺灣世界遺產潛力點」之一，也是唯一的市街型潛力點。本校首創「淡水學」地方研究，透過人物誌、紀錄片、刊物發行與議題網站建構等模式，持續記錄淡水發生的事，以及淡水人與土地的相處方式，讓在地文化持續地被重視、被肯定、產生情感的聯結，成為地方的驕傲。本校教師創立〈淡水維基館〉，結合數位科技與人文關懷，整合歷史調研、社群經營、電子出版、影像敘事等，透過線上／線下共學共創，訴說大淡水地區的故事。近幾年響應教育部推動 USR 計畫，積極參與淡水地區文化資產保存，針對歷史場域開設課程及工作坊，師生一起進駐在地，進行觀察與訪談，邀請居民參與，提出主題式城市保存行動方案，朝向「可居可遊」的歷史場域前進。

本校致力於生態、環保校園營造，積極推動「低碳環保」、「節能節電措施」、「環保公車」、轉乘系統等，獲得國家頒發「企業永續發展」獎勵。具有多樣化植物生態的校園、

展示古今中外各國船隻模型的海事博物館、舉辦美學饗宴的藝術中心、提供人類知識寶庫的圖書館等，均開放社區民眾進入。本校新建守謙國際會議中心取得綠建築銀級標章，宮燈教室等歷史建物以活化再利用方式進行整建，並積極透過環境教育場域的指定，建構校園成為北海岸地區中小學參訪學習的環境教育基地。

為「提供安全、可負擔、易於利用的永續交通運輸系統」，本校倡導「公車進校園」，以無障礙公車服務，連結周邊社區與捷運站；並與客運公司辦理「搭公車，抽大獎」等行銷活動，鼓勵師生利用大眾運輸，推動「微型交通」（Micromobility），倡議步行、腳踏車、電動機車等低碳交通工具。輕軌淡江大學站至校園路段設有行人專屬步道；校園周邊共享公共自行車與公車、捷運形成完整便捷的公共運輸網路；與電動機車廠商合作，於機車專用停車場引入電池交換站，服務師生與社區民眾。

本校持續進行校園道路及停車空間改造與重新分配，校園中軸線道路縮減車道寬並限速，提供連續且寬敞之透水鋪面人行道與標線型人行道，確保行人動線與空間之安全性。另於校園師生活動密集區域改設行人徒步區與休憩空間，塑造「以人為本」的校園環境。

2015 至 2019 年連續 5 年獲得新北市頒發綠色採購績優單位獎座  
 2020 年綠色採購金額：397 萬 1,940 元  
 2020 年採用低碳便當數量：15,000  
 2020 年透過回收系統再利用垃圾量：約 50,104 公斤

## SDG12：負責任的消費與生產

本校致力於落實負責任的消費及生產，訂定「源頭減量」、「綠色採購」、「資源回收」及「危害預防」之政策。要求餐飲廠商供應之食品均符合安全衛生相關法規，以在地食材優先，禁止基改食材；校園各類採購首重環保標章之產品，2015-2019 年連續 5 年獲得新北市政府「綠色採購績優單位獎」。

本校設置環境保護及安全衛生中心（簡稱環安中心），依規定嚴格管理並妥善處理教學實驗產出之有害廢棄物，結合 ISO45001 職業安全衛生標準，確保人員健康與環境安全。全校執行垃圾細分類，餐廳嚴格執行廚餘分類回收，垃圾均無運往垃圾填埋場。商店不提供塑膠袋及一次性吸管，餐廳採用高溫清洗重複使用之餐具，推廣低碳便當，自備環保餐具享優惠；堪用之報廢設備公開提供移轉續用。餐飲廠商之訂購，均需登錄於校園食材登錄平台，以備查驗；政策均擴展到供應商外包服務及供應鏈。

全校產生垃圾量扣除回饋員工自行販售量後，實際排出約 666 公噸，其中資源回收量約 100 公噸，回收率 15%。

本校環安中心執行 ISO14001 環境管理系統已 20 年。2011-2013 年連續 3 年榮獲中華民國企業環保獎，為全國第一所獲頒「榮譽企業環保獎」的大學，持續於中心網頁發布永續發展相關之資訊。





2020年承接政府單位且主題與永續發展目標相關之計畫案：303件  
 2020年舉辦國際學術研討會場次：12場  
 2020年專業知能服務學習課程與NPG或NGO合作數：逾20個  
 2019學年度柬埔寨志願服務隊服務當地兒童人數：150名；泰國志願服務隊服務當地兒童人數：350名  
 2020年「化學遊樂趣」舉辦68場活動，服務人次達7388名。

## SDG17：夥伴關係

本校有235所姊妹校，遍布全球38個國家，除與姊妹校合作進行SDGs議題的推動外，也協助政府組織和其他非政府組織執行永續工作。本校有101位教師在政府單位兼職，另有74位教師在非政府組織任職，參與制定永續發展目標政策。2020年承接政府永續發展目標相關計畫案共303件，其中水環系教師擔任經濟部所屬台灣自來水(股)公司獨立董事、臺北市政府「臺北市災害防救專家諮詢委員會」委員，以及經濟部「德基水庫集水區管理委員會」委員，推動政府推動水資源相關永續發展目標；土木、水環、運管等系教師協助行政院部會機關暨地方政府審查工程開發以及防災計畫；中文系和教育學院教師協助政府制訂並檢討中小學教育政策與工作成果；歐洲所

教師擔任政府歐盟議題諮議並任勞資關係研究所諮詢委員；經濟系協助柬埔寨NGO組織ECC School建置魚菜共生系統；化學系教師協助政府開發新型抗腎癌藥劑以及生化處理技術。受Covid19疫情影響，2020年本校舉辦與永續發展目標相關之國際學術研討會共計12場，未來所受邀參加聯合國教科文組織UNESCO主辦的「UNESCO Futures Literacy Summit 2020」視訊會議，另本校葛校長在Futures Studies Journals Booth發表演講，介紹本校未來化貢獻並提出願景。和國外盟友共同分享數據方面，本校2020年與國際學者合作發表期刊論文至少105篇，另獲科技部補助自由型國際合作加值(MAGIC)方案13件。根據SCOPUS資料庫，本校在不同SDG領

域均有研究成果，但以SDG3、SDG4、SDG6、SDG7、SDG8、SDG9、SDG11等項目較為突出。自2019年開始每年發布學校整體永續發展報告，並於2020年始針對SDG4(Quality Education)、SDG6(Clean water and sanitation)、SDG7(Affordable and clean energy)、SDG8(Decent Work and Economic Growth)、SDG11(Sustainable Cities and Communities)、SDG12(Responsible Consumption and production)、SDG17(Partnerships for the Goals)等7項永續發展目標發布獨立報告。出版2020年Tamkang University Social Responsibility and Sustainability Report(86頁)，揭露本校關於校園環境、社會實踐參與以及學校治理等永續作為，供社會大眾參考。本校持續推展環境永續教育，符合永續發展目標教育相關課程說明如下：(1)校共通課程「生命關懷與服務體驗」、「森林生態與樹木保護」、「生態社區建構」、「弱勢團體

與社會福利」課程；(2)人文領域課程「環境倫理」、「藝術與人生—與大師對話」課程，以反思的角度探討環境永續概念，並藉由藝術傳遞與實踐永續價值；引領學生與地區文化連結，擴大社會參與並促進永續城鄉的發展；(3)社會領域「幸福經濟學」、「人權與社會正義」、「文化全球化」、「經濟未來」、「社會未來—城市未來」課程，讓學生瞭解全球化概念與發展，探討全球化進程對國家主權、政治經濟、文化社會、NGO乃至於個人影響，擴大其國際視野，並基於永續發展精神，進而探討各區域問題，理解目前以及未來所可能面臨的挑戰；(4)科學領域「科技永續」、「海洋科技」課程，讓學生能明瞭人類文明過往成就、目前困境及未來挑戰，提供學生具前瞻性之科學概念與素養，以培養其思考新興科技，並在回應社會需求及文明永續發展方面，找尋最佳解方案。

