

China Medical University Social Responsibility Report of Sustainability

Abstract

China Medical University's University Social Responsibility Report for 2019 is written according to the Global Reporting Initiative Reference (known as GRI Reference) proposed by its initiative. GRI Reference has defined a clear construction and format to reveal entrepreneurs' social responsibility and non-financial information. This document is an abstract of China Medical University's University Social Responsibility Report for 2019¹, hoping to briefly introduce the effort and contribution China Medical University (hereinafter referred to as CMU) had made in 2019. CMU has been trying to achieve the university's social responsibility and advocate the 2030 Sustainable Development Goals (known as SDGs) proposed by the UN. CMU had dedicated to managing different directions, including school businesses, environmental management, financial management, and social issues.

This document will be divided into four chapters, including Chapter 1 About CMU, Chapter 2 School Management and Stakeholders' Participation, Chapter 3 Four Directions of CMU's Sustainable Development in 2019, and Chapter 4 CMU's Vision of Sustainable Future. Chapter 1 About CMU will introduce CMU's history, campus, organizational structure, and financial situation. Chapter 2 School Management and Stakeholders' Participation talks about how the CMU Board of Directors and administration function. This chapter also explains CMU's sustainable operation and risk management that show our characteristic and vision for development. Chapter 3 Four Directions of CMU's Sustainable Development in 2019 thoroughly elaborates the managing situation in CMU. Furthermore, it also meticulously describes how we escalate the publicness of higher education, amplify working conditions, and

¹ China Medical University's University Social Responsibility Report For 2019, the original report of this abstract, is verified by SGS TAIWAN LTD.

promote issues such as campus safety, hygiene management and environmental sustainability management. Last but not least, Chapter 4 Vision of Sustainable Future concludes the core value CMU holds toward social responsibility and sustainable development, aligning with CMU's future development.

Further details will be illustrated in the following articles.

Chapter 1 About CMU

Currently, CMU retains 3 campus including Main campus in Shuinan, Taichung, Yingcai campus in downtown Taichung, and the branch at Beigang, Yunlin. Our academic and clinical teaching centers are allocated in Taichung, Beigang, Tainan, and Hsinchu. CMU contains 25.05 hectares of campus in total, containing 13.1 hectares of school buildings.

CMU divides its academic leaning subject into 9 colleges and 1 Center of General Education. The colleges include College of Medical, College of Chinese Medical, College of Dentistry, College of Pharmacy, College of Public Health, College of Healthcare, College of Life Sciences, College of Humanities and Sciences, and College of Biomedical Engineering. In the 2020 academic year, CMU holds 21 undergraduate programs, 36 postgraduate programs (3 international programs included), and 21 PhD program (8 doctoral programs included). In addition, CMU's research centers include Chinese Herbal Medical Center, Tumor Medical Science Center, Drug Development Center, and Aging Medical Center, not to mention the Brain Disease Center and Integrative Stem Cell Center, which are the two distinctive research centers among all.

As for the affiliated medical system, CMU owns 16 hospital branches including CMU Hospital (CMUH), CMU Beigang Hospital, Tainan Manicipal-An-NanHospital - CMU is

entrusted to build and operate, CMU Children's Hospital, and CMU Hsinchu Hospital etc. holding 4038 hospital beds in total. These hospitals are crucial resources for both training medical student and serving the public.

CMU employs 512 full-time teachers (project teachers included). Our teachers consist of 192 professors, 175 associate professors, 142 assistant professors, 2 instructors, 1 military nursing teacher and numerous visiting and chair professors. For now, CMU has 7212 students, including 6228 undergraduates, 581 graduates, and 390 PhD students. According to the data from the Ministry of Education on October 15th, 2019, CMU also has 13 two-year educational system students. The teacher-pupil ratio in CMU is 12.41.

CMU has been strictly following our medium-long-term school development plan. With our steady, solid and sustainable principles, CMU's budget committee has been auditing the fund allocation and examining how the budgets are used. Our financial support consists of tuition and fees from students, incomes from affiliated hospitals, incentives from the Ministry of Education, earnings from the industry-academic collaboration, and our fundraising. CMU has obtained incentives from the Ministry of Education through the Promoting Teaching Excellence Universities Project. CMU has been accredited for 12 years and received approximately 1 billion NTD in total. As the Promoting Teaching Excellence Universities Project transformed into the Higher Education SPROUT Project, the Ministry of Education has distributed 202 million NTD each year. In addition, from 2017-2019, CMU has gained around 100 million NTD per year from the funding of the Private University School Business Development Project held by the Ministry of Education. The earning from the industry-academic collaboration has grown steadily from 54.32 million in 2019 to 57.6 million in 2020. CMU has been earnestly promoting higher education and with our sustainably sufficient financial support and our active actions, our revenue keeps growing steadily.

Chapter 2 School Management and Stakeholders' Attendance

How CMU Board of Director and Governance Institution Function

Standing the consideration for CMU's medium-long-term school business development, we select our board of directors based on candidates' diversity, independence and the contribution to the society.

The CMU board of directors is constituted of 15 people. The chairperson of the board will be outvoted by the 15 members and he/she will represent CMU while facing the public. The chairperson will hold his/her four-year term of office and can run for re-election. Dr. Chang-Hai Tsai is the nineteenth chairman of CMU's board of directors at present.

As for the school business, the Office of the President is the highest administration in CMU. The Office of the President is composed of CMU's President, Vice President, and Chief Secretary. CMU president will also have full-time staff to assist his/her tasks. CMU's Vice President dominates the whole university's administration. With the President's instruction, the Vice President will assist all on and off campus administrations and lead the academic research to accomplish CMU's establishing purposes and our ideal education concept. The Office of President is the main administration in CMU and is responsible for planning school business, managing school finance, and determining crucial industry-academic collaboration. The Office is also in charge of general affairs such as the medium-long term development plan, the Advisory Committee of General School Business, the school committee discussion, campus design, school evaluation, and internal auditing. In addition, the Office unifies the collaborations between CMU academic colleges and school administrations to integrate various school business and amplify teaching and researching quality to cultivate students.

CMU's Characteristics, Development Visions and Goals

CMU is the largest university of integrating Chinese and Western Medicine in Taiwan. The university was founded with the main goal of 'Integrating Chinese and Western Medicine, nurturing medical talents, promoting medical services and improving social welfare'. Moreover, we consider ourselves as a prestigious medical university which 'not only focuses on humanities and professions but also integrates theoretical and clinical practices'. Besides, CMU has been passionately developing medical technology and formulating several innovative biotechnology models to achieve our ambitions. Following national policy toward education development and the demand from the society and industry, CMU integrates the teaching, research and social service network resources of our affiliated hospitals in order to solve the significant medical difficulties, nurture exceptional medical top talents, promote the wellbeing of the public, deepen academic research and industry cooperation and elevate CMU's international reputation. In the latest 2018-2022 medium-long-term school development plan, CMU targets at the vision of 'Connect with the international trends. Become a world-class university'. To achieve these visions, CMU collaborates with numerous domestic and international universities and institutions to build sister school relationships. Furthermore, CMU also collaborates with domestic and international research centers to conduct academic research.

The 2019-2022 school business development goals include:

Goal 1: Connect with international standards. Become a world-class university.

Goal 2: Lead the innovative teaching methods. Enhance teachers and student's ability.

Foster CMU's significant characteristic.

Goal 3: Promote dynamic developments and nurture outstanding talents.

Goal 4: Focus on research and solve significant medical problems.

Goal 5: Expand and establish smart campuses.

Goal 6: Create a world-class Chinese-Western Medicine integrated center.

Goal 7: Deepen the cooperation between industries and schools. Build a biomedical science park.

Goal 8: Escalate the publicness of higher education. Fulfill a university's social responsibilities.

CMU's Sustainable Management and Risk Management

CMU's management not only supports our teachers to keep conducting research but also offers our students high quality of higher education. CMU has planned the CMU Organizational Charter as the standard of school administration and school business management. CMU also revised the medium-long-term school development plan with Rolling Wave Planning tactics to determine the school business directions and adjust our human resource and financial support. Additionally, we also try to strengthen our financial management performance and its transparency. To make sure the strategies function effectively, CMU applies a supervision and evaluation system. We also cooperate with industries, governments, and schools to supervise our management and ensure that we achieve our school business development goals.

CMU strives for innovative teaching methods and high teaching qualities. We set up 5 strategies to cultivate professional medical talents. The strategies include nurturing students' ability of communication, collaboration, critical thinking, and creativity, elevating students' learning effect, strengthening students' professional practices, amplifying students' programming language knowledge, and setting up smart campuses to support CMU's teaching

and research. CMU has been earnestly employing exceptional professors to teach our students. We have employed more than 100 teachers in the past three years to meet the standard of our school development. We apply dynamic and flexible teaching methods to our courses. In 2019, CMU's rate of students passing the National Medical Licensing Examination is higher than the national average, and the satisfaction rate toward CMU students' performance from other hospitals is 90%. Moreover, the employer's intention to employ CMU's graduates is 99.5%, showing CMU's extraordinary school management.

To fulfill university's social responsibility and achieve environmental sustainability, CMU has set up a University Social Responsibility Office (known as USR Office). The USR Office chairperson will lead one project assistant professor and four project research assistants to design the social responsibility plan and sustainable development courses. Currently, CMU USR Office has designed numerous events such as Sustainability Development Week, interdisciplinary series of sustainable development courses (held 9 in the 2019 second semester and 14 in the 2020 first semester), 30 USR projects, 4 USR HUB initiatives and activities cultivating teachers' connection to sustainable development. With the efforts in encouraging students and teachers to connect the courses with local community's needs, CMU USR aspires to promote local health, occupational safety and health, and industrial development.

As for the risk management and reaction, CMU convenes meetings and announces school research periodically to improve the management of school business, student affairs, and risk incidents. CMU publishes IR data regularly and creates 4 Student Indicators, 4 Teacher Indicators, and 3 Interschool Indicators which CMU often compares with the 5 selected prestigious universities. The IR data is uploaded to the school business management visualized interacting query platform and can be accessed through a filtering system featuring several indexes such as academic year, college, department, and semesters. The latest data will be updated on October 15th every year.

CMU has prepared a complete contingency plan for risky incidents which might strike our sustainable management. The plan includes setting up a superior contingency team, a health monitor and track system, an immediate communication system, and emergency backup resources and practice. Take the Covid-19 pandemic for example, CMU announced the Epidemic Prevention Announcement on January 13th, 2020, and founded CMU 2019-nCoV Epidemic Prevention Team on January 22nd, 2020. The chairperson of the team is Dr. Mien-Chie Hung, who is also the president of CMU whereas the two vice presidents, Dr. Cheng-Chieh Lin and Dr. Hung-Che Chiang, are vice chairpersons. The team convenes pandemic prevention meeting every day and activates the control system according to the National Health Command Center's instruction. Moreover, the team also reacts actively toward epidemic prevention, expecting to keep our teachers and students safe and prevent the virus from invading and spreading.

CMU has been putting our social responsibility into practice for many years. We incorporate our resources with a favorable partnership and promote school teaching and research. In addition, we also offer public service to prosper and flourish with the society under our sustainable development management. In 2019, CMU participated in 14 advocacy organizations such as the Green University Union of Taiwan, and the International University Social Responsibility Cooperation Alliance. Furthermore, CMU not only values students and teachers' learning and research ability but also takes up the responsibility for society and industries. In 2019, CMU owns memberships in 37 different associations (professor's personal membership are not included) . For instance, CMU is a member of the Association of Private Universities and a member of Colleges and the Private Education Association. In some associations, CMU often plays the role of secretary-general, supervisor of director, or committee member.

Major Issues and How to Communicate with Stakeholders

This report aims at developing sustainable management for universities and is drafted by a working team. The team collaborates with the school administration and management offices to regularly discuss major issues with CMU's stakeholders through various approaches. Through the discussing process, the team applies the GRI references to analyze major issues and drafts responding strategies. CMU has identified 8 types of stakeholders, including the management level, students on campus, teachers, staff, researchers, student's parents, people in the community, and internship organizations. Through various approaches, discussions with stakeholders, and the questionnaires, the team has defined and listed 25 issues related to sustainable development goals. The team finally identified 12 major issues, including cultivating high-level talents, focusing on solving crucial medical difficulties, deepening the cooperation between industries and schools, elevating the publicness of higher education and USR (university social responsibility) fulfillment, amplifying working conditions and opportunities, campus safety and hygiene management, environmental sustainability management, academic theories, information security, employee benefits, gender equality education, and teaching quality and effectiveness. CMU has connected these major issues with the corresponding GRI references and SDGs to set the management policies, 2022 performance target, and 2030 long-term goal.

As for drafting strategies, CMU has made further effort to discuss and analyze major issues. For instance, we founded the Higher Education Sprout Project Office, Social Responsibility Office, USR HUB Office, and Creative Thinking Laboratory to determine some reformed management policies. We also combine our college teaching, research, and IT service together to advocate USR and sustainable development learning plans. Besides, we also put these learning plans into some practical actions through local cooperation. Moreover, we integrate the resource from teaching, research, and community service network to create a learning system benefiting the urban and rural and is expected to create an innovative inclusive social model which can be replicated by other medical universities. We also anticipate

becoming a reference example for other higher education organizations in Taiwan when they need to formulate educational strategies and enforce sustainable management.

Chapter 3 Four Directions of CMU's Sustainable Development in 2019

School Business Management

To ensure high teaching quality and effectiveness, CMU has launched diverse initiatives focusing on policies, infrastructure and IT facilities. For instance, CMU aims at improving student's ability to get professional licenses and increasing student's opportunities of getting employed. We have created a system to keep track of our alumnus' career and pay attention to employers' comment. In addition, CMU values active learning and tries to amplify the learning effect by encouraging students to attend various learning sessions such as seed teachers learning communities, or lessons designed by teaching assistants, honored students, and course designers. CMU is expected to motivate students to learn actively and adaptively and to cultivate professional talents with interdisciplinary abilities. Therefore, CMU is dedicated to making courses more flexible, upgrading teaching facilities, creating a flexible education system, encouraging students to do self-learning, valuing the spirit of innovation, experiment and practice in order to create an innovative learning model focusing on competency and students' self-learning. With the assistance from the innovative education team, CMU takes both Comprehensive Clinical Blending Learning Method and Benchmark Flipped Courses Classroom Method as references and combines online and face-to-face learning, creating a teacher community and dynamic minor credit courses. The courses are combined with information literacy lessons (Compulsory Basic Programming Courses) and narrative training (Classic Literature). CMU has put efforts in innovating our teaching, such as developing innovative teaching methods and materials, teaching research practices, teaching

interdisciplinary practice abilities, flipped teaching, mentorship system, problem-based learning (PBL)/team-based learning (TBL), professional teacher community, and class observation system. CMU also encourages the sharing of teaching resources among teachers and supports the research and developments in course designs and teaching. CMU promotes sustainable development education and creates related general education Minor-credit Courses which also merge interdisciplinary features. Moreover, CMU also holds Sustainable Development Week every year to shape global citizens that support sustainable development. CMU held 9 sustainable development courses in 2019 and 14 in 2020. According to students' feedback, all courses have high learning effects.

As for IT service and facilities, CMU has built complete teaching systems such as Moodle, Massive Open Online Courses (MOOCs) and an integrated digital online learning platform allowing teachers and students to interact. To achieve the best innovative teaching and self-learning effect, CMU has flipped the traditional teaching mode and learning environment. Students firstly need to understand the academic contents recorded by professors beforehand and then ask questions or discuss with professors face-to-face in class. Furthermore, CMU introduces intelligent infrastructures and provides digital online resources with innovative application services to create a complete library and information system and therefore foster a positive learning environment. CMU also creates a digital learning space and a school business development big data database. Not to mention the distance learning system also helps to achieve the teaching effect a step further.

With countless efforts and attempts, CMU ranked as the third best university and the best private university in Taiwan, according to the 2019 Times Higher Education Asian University Rankings. Furthermore, CMU ranked as the best university in Taiwan according to Times Higher Education Golden Age World Rankings. CMU has the largest number of passing the Ministry of Technology research projects, which are conducted by college students, and it ranked as the best among private universities while the second-best among all the universities

in Taiwan in 2019. Global Views magazine also ranked CMU as the second-best private university in Taiwan while Cheers magazine praised CMU's performance on the top 20 list.

CMU puts much effort into cultivating medical high-level talents, including talents in both industry and academia. CMU not only combines local industry with our university and hospital resources but also integrates the core advantage and biomedical material energy of the Biomedical Electronic Industry in Hsinchu and the Precision Machinery Industry in Taichung to conduct research and develop innovative high-level medical materials. Besides, CMU also creates a Niche Product University-industry Strategic Alliance across the area and develops an Interdisciplinary Industrial Village. CMU assists industrial transformation and amplifies market competitiveness by cultivating talents through PhD programs and by applying other various strategies. The main strategies are: deepening the cultivation toward postgraduate students, encouraging students to pursue PhD, cultivating outstanding students, doctors, scientists, and talents in technology research industry, enhancing student's international competitiveness, expanding international joint dual-degrees, and founding industry-academic collaboration programs. CMU held five PhD Programs in 2019, including PhD Program of Biotechnology Industry, PhD Program of Health Science and Industry, PhD Program of Medical Engineering and Rehabilitation, PhD Program of Biotechnology and Biomedical Industry, PhD Program of Biotech Pharmaceutical Industry and added two master programs including, Master Program of Technology Management and Master Program of Technology Law to cultivate medical technology managers.

CMU focuses on conducting research and solving significant medical problems. We keep recruiting world-class professors with our Chinese-Western medical integration advantage and innovating our teaching, research and medical systems. We want to cultivate our medical talents with the abilities of self-learning, independent research conducting, and problem solving. These abilities may enable them to conduct the research and potentially solve significant medical difficulties in the field of biotechnical pharmacy, medical assistive devices, and Chinese-Western medical integration. The practical strategies for achieving the goals are:

strengthening international talents cultivation, forming unique research teams, developing top-notch focused research, integrating university and medical resources, and increasing research capacities.

As for promoting academic integrity, with commissions from 39 universities in central Taiwan, CMU has founded the Central Taiwan Integrity Censor Committee and the Central Taiwan Research Ethic Center. CMU is in charge of conducting integrity censorship and intensifying the central Taiwan research censor system. We exchange opinions regularly with the research ethic committees from different universities in central Taiwan in order to enhance the quality of the censorship. Furthermore, we also hold training courses to improve professors' awareness of academic integrity and research ethic.

CMU pays serious attention to information security and keenly strives for the information safety certification from Information Security Management System (ISMS) and ISO27001 identifications. CMU has retained the ISO27001 identification for the second time since 2010 and applied it as the reference for the regulations and operating procedure of our Information Security Management System.

Flourish with the Society

'Elevate the publicness of higher education and fulfill University Social Responsibility' is the important goal set in 2018-2022 CMU development plan. This goal also aligns with the UN SDGs 4 'Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all'. Based on the purpose of elevating the publicness of higher education CMU has supported the students who are financially or culturally underprivileged. For instance, CMU has provided aboriginal students with academic guidance and advocated the 'Learning Instead of Part-time Working Plan', which has benefited 4242 students from 2018 to 2019. Moreover, CMU encourages life-long learning by holding activities and courses such as health care classes, Chinese medical features classes, meridian massage classes, and health-preservation classes for senior citizens. In addition, CMU also hosts medical knowledge camps

for high-school students to attend and opens our library and Chinese medical museum to the public. As for fulfilling USR goals, CMU has promoted 30 USR Projects, aiming at long-term care, safe guardianship, regional revitalization, and cultivating learning community. With the assistance from community medical team and medical caring network, CMU has put much effort into medical caring in rural area for over 20 years. By integrating innovative industries and academics and enforcing the national SPROUT Project, CMU looks forward to cultivating long-term caring talents. In addition, CMU has been hosting Sustainable Development Week and activities since 2018, allowing students to learn different aspects about sustainable development through dynamic methods.

As for the employee benefit, CMU has been accredited by the Health Promotion Administration, Ministry of Health Welfare, with the 'Healthy Workplace - Healthy Promotion Badge 'since 2019. CMU offers sports stadiums for our staff to stay healthy. CMU also holds sport classes, including basketball, table tennis, aerobic exercises, and VIP physical fitness classes. CMU also has rented an off-campus badminton courts and Ying Cai campus is located near the Taichung North District Exercise Center, providing a gym for our staff to do exercises. Besides promoting regular exercise, CMU agrees to provide physical examinations for every staff member according to the Labor Safety and Health Act. CMU takes one step further to allow staff who have worked over one year to have annual physical examination. We provide advanced examinations once every two or three years for older staff. Staffs over 55 years old are able to have an advanced physical examination every year. So far, 719 staff have obtained the examination regularly. The examination result will be managed by professional labor health service managers. According to the Labor Health Protection Regulations, 24 CMU staff are involved in special health hazard works and their special health examination rate is 100%. CMU has assisted to conduct the Staff Retirement Pension Plan. We contribute a certain portion of our employer's retirement pension according to the Incorporated Association with Private School Staff Retirement Pension and Resignation Act and the Labor Pension Act.

As for the gender equality and moral education, CMU has passed personnel regulations such as CMU Sexual Harassment Prevention, Appeal, and Punishment Regulations. With the regulation, CMU provides a safe workplace without sexual harassment, expected to protect the victims' privacy and human rights. We also aim at taking proper actions to prevent, correct, and punish the crimes. At the same time, CMU also founded the Gender Equality Education Committee to advocate gender equality. CMU staffs need to go on CMU's Moodle digital learning system to take a one-hour gender equality course and finish a quiz afterward. Moreover, CMU also hosts diverse lectures and training workshops related to gender equality (30 workshops were held and 3928 participants attended in 2019). On the other hand, CMU also focuses on strengthening moral education in the field of medicine. CMU has actively formed rural service teams and recruited volunteers from different academic departments. The teams combined service learning and professional courses to promote moral education in the medical field, deepen service learning and teach professional knowledge and skills in rural areas.

Economic Development

Firstly, CMU has deepened the collaboration between industries and schools. To accomplish our development goal, take our university's advantage and connect with the industry, we are planning to build a 16 hector Health Industry Park based in the Shuinan Smart Park. With the Technology and Research Interdisciplinary Platform Project, CMU's Industry-Academic Cooperation Office integrates three business, including breeding innovative ideas, technology transfer, and industry-academic cooperation together. Furthermore, the office merges those three businesses with our financial support, know-how technique, and market information to conceive a suitable environment for start-ups to survive and thrive. The measures enable the start-ups to reduce the cost and risk from commercializing patent products, increase the opportunities for the start-ups to succeed, and assist other associated industries to

forge a Biotechnology Medical Industry Community. The financial support from CMU's cooperation with other entrepreneurs has grown from 54.32 million in 2019 to 57.6 million in 2020. 11 entrepreneurs and start-ups have kept thriving with our help since 2019.

CMU has optimized students' working opportunities by developing industry-academic cooperation. CMU had taken advantage of the innovative medical technologies and proposed the 2020 University and College Innovation Start-up Education Plan which introduces dynamic teaching values and models. Additionally, we also took practical actions such as selecting the most outstanding coaches from the field of innovative technology development, forming a professional industry consulting team, designing lectures and courses, gaining mentorship from start-ups and arranging internship opportunities. We also outsource professionals to conduct Proof of Concept (PoC) or Proof of Value. The purpose of this plan is to strengthen the connection between students' research and the associated industries and cultivate talents with creativity, innovative spirit, and the ability to start a business. CMU anticipates making use of our resources to equip students with the abilities required in building a research team for new medicine and medical equipment and paint a promising vision for Taiwan's medical researchers. The highlights of our employment promotion initiatives are establishing a high-tech biomedical park, supporting star-ups and holding a plan that recharges biomedical and medical material talents.

Environment Management

As for the school safety and hygiene management, CMU builds the Shuinan campus under the concept of 'Creating A Green, Sustainable, and Smart Campus'. We combine our school administration, environment, teaching, and students' lives on campus altogether and create a campus that serves as the base for our sustainable development. CMU Shuinan campus takes smart green building as its main characteristic, and it is the only university campus that is

awarded with the smart building, green building and low-carbon building certification at the same time. CMU designed the campus according to 18 main indicators and 31 vice indicators under the 3 aspects of Green University Evaluation, including environmental system, environmental management, and environmental education.

CMU is the incorporator and permanent member of Green University Union of Taiwan and we pay much attention to environmental sustainability management, including green and low-carbon purchase. CMU also encourages carbon reduction actions such as controlling elevator usage, advocating digitization of official documents, and reducing paper usage in offices in order to react to climate change. Moreover, CMU also keeps track of the usage of electronic power and the greenhouse gas emissions. The number of both have decreased through the years. CMU's electric power usage has declined from 15,426,454 KWh in 2018 to 15,382,204 KWh in 2019 whereas the greenhouse gas emission has declined from 9811 MT in 2018 to 9782 MT in 2019. CMU also founded the Environmental Safety Office and Environment Safety Committee to secure the laboratory hygiene and manage the polluted toxic chemical wastes. The Environmental Safety and Hygiene Team, Radiation Protection Management Team and Biology Safety Team, which are under the Environmental Safety Office, are responsible for inspecting the laboratory safety and hygiene.

CMU also put much effort into promoting renewable energy and creating a zero-carbon-emission campus. We have installed solar power equipment on the rooftop of three buildings on Shuinan campus and the capacity is 120.44 KW. To cooperate with Taichung City Government's Green Low-Carbon Policy, CMU also built 868 electric vehicle chargers, 218 for automobiles and 650 for motorcycles. After the CMU administration moved into Shuinan campus, we have transplanted 200 trees and planted 300 new trees in 2020 to create a green campus.

Abiding by the Government Procurement Act, Organizations Primary Purchase of Environmental Protection Products Regulations, and several measures from Environmental

Protection Administration, Executive Yuan, CMU's purchasing prioritizes products that have less environmental impact. Moreover, we also promote the production and usage of green products and encourage green consumption in order to sustainably use the resources and protect the environment. CMU's Annual Green Consumption Numbers over the past years are over 5 million NTD, which meet the Taichung Government's complement standard. CMU's Green Consumption in 2019 is 7,470,451.

Chapter 4 CMU's Vision of Sustainable Future

CMU's latest 2018-2022 medium-long-term school business development plan has identified not only the significant developing targets for CMU but the directions of cultivating students. *'Better Life, Better World'* is the core value of CMU's social responsibility and sustainable development. CMU's president, Dr. Mien-Chie Hung, holds the same beliefs on managing the school and conducting research. He believes that strengthening teacher and students' abilities, cultivating high-level talents, and solving crucial medical difficulties will lead both CMU and CMUH into a superior future. With his guidance, CMU will keep striving and working together as a unit, connecting our most outstanding research centers and teams, world-class research institutions, medical industries, and the biomedical technology campus, which will be constructed in different stages. Besides, we also hope to create an innovative system based on our outstanding research. We look forward to amplifying our innovative research ability and knowledge with the help from the system. Furthermore, we will cooperate with the government to advocate the '5+2 Industrial Transformation Plan' by combining our resources in university and hospital to make progress in various fields such as biomedical, high-tech medicine, minimally invasive medical materials, smart assistive devices, and artificial intelligence. With these plans, teaching methods, and research, we expect to lead CMU into

the next advanced era and keep moving onward toward CMU's future vision of being a world-class university with a smart sustainable campus.