



# CARBON NEUTRALITY

"KU Goes Green and Carbon Neutrality" policy. This initiative is in alignment with the country's goals to tackle the climate crisis and achieve the Sustainable Development Goals (SDGs). Building on its reputation as a Green University, Kasetsart aims for complete carbon neutrality by 2035, coinciding with the 80th anniversary of its establishment.



# DAMRONG SRIPRARAM, PH.D.

Acting President



# PRESIDENT'S STATEMENT

**Sustainable development goals:** SDGs of the United Nations. They are integrated and indivisible and balance the three dimensions of sustainable development: the economic, social and environmental. A plan of action for 5Ps people, prosperity, planer, planet, peace, and partnership. This is a framework for setting sustainable development policies around the world including Thailand.

Kasetsart University is a university with good foundation regarding sustainable development since the established university of 3 founders of Kasetsart University who pioneered and established the foundation of agriculture and agricultural education in Thailand. To nourish and promote agriculture and agriculturists of the country to have academic principles that stable and equal to other civilized countries. This can be seen from the large number of centers and research stations in every region in Thailand to help the community. At the same time, Kasetsart University has continuously developed the concept of sustainable development in all 17 sustainable development goals (SDGs) and joined the Sustainable University Network (SUN) to become a leader to the community, society, and nation, and international.

Dr. Jongrak Watcharinrat, the President of Kasetsart University, announced at the 61st academic conference, " KASETSART for All: Expanding Knowledge of the Land towards Sustainable Well-being, " the institution's endorsement of the "KU Goes Green and Carbon Neutrality" policy. This initiative is in alignment with the country's goals to tackle the climate crisis and achieve the Sustainable Development Goals (SDGs). Building on its reputation as a Green University, Kasetsart aims for complete carbon neutrality by 2035, coinciding with the 80th anniversary of its establishment Kasetsart University has laid out its policy and objectives to achieve carbon neutrality by 2035. This includes a strategic plan focusing on Energy Dimension : Enhancing energy efficiency in buildings, adopting renewable energy sources such as solar roofs and wind farms, and promoting the use of electric vehicles on campus to minimize greenhouse gas emissions

# PRESIDENT'S STATEMENT

Forest and Green Space Dimension: Evaluating the carbon sequestration potential of the forests and green spaces across its 5 campuses and 26 research stations, spanning roughly 13,000 acres. The goal is to enhance the region's capability to absorb carbon dioxide.

Agricultural Dimension: Encouraging precision agriculture, efficient fertilizer application, abandoning crop burning, promoting alternate wetting and drying rice cultivation techniques, sustainable farming practices, repurposing agricultural waste, and developing low-carbon agricultural products.

Waste and Wastewater Management Dimension: Reducing waste generation, separating waste for recycling in line with the circular economy concept, decreasing wastewater generation, and improving wastewater treatment technologies. This initiative seeks to position Kasetsart University as a pioneer in carbon neutrality, serving as a model for societal learning. Previously, the university organized the "Carbon Neutral Kaset Fair" to measure the carbon emissions from the agriculture fair activities. This was overseen by the Faculty of Environmental Science at Kasetsart University in collaboration with 75 student volunteers. Subsequently, they compensated for the carbon emissions by purchasing carbon credits registered with TGO.



**Damrong Sripraram, Ph.D.**  
**Acting President**

# TABLE OF CONTENTS



**01**

About Kasetsart University

**04**

University Administrators

**5 - 7**

Universities Responsibilities : Philosophy, Vision, Mission, Core Value

**8 - 9**

Policy KU SDGs

**10 - 67**

Programs implementation 1 - 17



The background of the page features a photograph of the Kasetsart University main building, a large white structure with many windows, partially obscured by lush green trees with pink blossoms. In the foreground, a large, ornate golden statue of a deity stands on a tiered base, surrounded by a fountain with water spraying upwards. The scene is framed by several large, vibrant green leaves scattered across the image. The university's name is prominently displayed in the center: 'KASETSART' in large, bold, white capital letters, and 'UNIVERSITY' in large, bold, dark green capital letters below it.

# KASETSART UNIVERSITY

Kasetsart University is the first higher education institution in Thailand to offer agricultural programs. It has grown and developed into a university recognized as the “Knowledge of the Lands”, demonstrating continuous and sustainable strength. The university integrates agricultural sciences, its foundational discipline, with the King’s philosophy, community knowledge, and global sciences to foster academic innovation. This approach positions Kasetsart University as a leading institution contributing to sustainable national development and earning international recognition.

Kasetsart University was established in 1943 as a small College of Agriculture and Forestry, dedicated to developing human resources to serve as a key driving force in the nation’s agricultural sector. Over the past more than 80 years, the university has expanded its knowledge base and scope of education, evolving into a comprehensive university and research institution today.

Kasetsart University offers undergraduate, master’s, and doctoral programs across a wide range of disciplines, including Agriculture, Agro-Industry, Architecture, Business Administration, Education, Economics, Engineering, Environmental Studies, Fisheries, Forestry, Humanities, Physical Sciences, Social Sciences, Veterinary Medicine, Medicine, and Nursing. Over the years, Kasetsart University has become a national institution dedicated to producing highly qualified human resources in these fields.

The Kasetsart University Council has set operating policies under the KU ++ Super Plus system management and has stepped up to be 6U according to the policy of the Kasetsart University Council and towards the goal of sustainable development by setting a policy that demonstrates being a leading university create value to society outside the university both nationally and globally. Consisting of Green University, Digital University, Research University, World Class University,

---

Social Responsibility University and Happiness University, including applying the principles of sustainable development by the vision that "A world-class university of learning, research, and innovation for sustainable development based on the science of the land. " Whereby the Kasetsart University Act (BE 2558) under Section 7 and will be the main cog in building personnel and students to be aware of and responsible to the community, society and the environment according to the United Nations Sustainable Development Goals in all dimensions.

# About Kasetsart University



## Kasetsart University, Bang Khen

has an area of 848 rai or 1.3568 square kilometers, consisting of fifteen faculties, two colleges, one office, four offices center, four institutes, and one center.



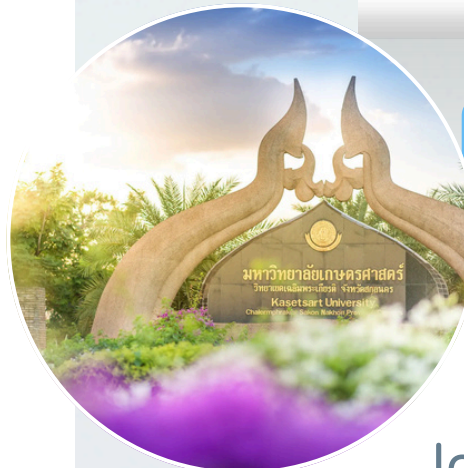
## Kasetsart University, Kamphaeng Saen Campus

has an area of 7,951 rai or 12.7216 square kilometers, consisting of five faculties, one office, two offices center, and one center. In addition, it is also the location of vital departments of the university, such as the center for Agricultural Biotechnology, Science Center and Rice Gene Discovery Unit, National Agricultural Extension and Training Center, National Agricultural Machinery Center, Kamphaeng Saen Fisheries Research Station, Kasetsart University Veterinary Teaching Hospital which covers the operations of Nong Pho Veterinary Hospital, Ratchaburi Province.



## Kasetsart University, Sriracha Campus

provides teaching and learning in majors supported by economic expansion and develops the human resources in the East Coast region. Kasetsart University Sriracha Campus provides teaching and learning in majors supported by economic expansion and develops the human resources in the East Coast region thereof increases educational opportunities in the eastern region. Consisting of five faculties and one office. It is located in Sriracha District, Chonburi Province, with an area of 199 rai or 0.3184 square kilometers.



## Kasetsart University, Chaloem Phrakiat Sakon Nakhon Province Campus

located in Mueang District, Sakon Nakhon Province, with an area of 4,488 rai or 7.1808 square kilometers. To honor his majesty the king on the occasion of the 50th anniversary of his majesty 's accession to the throne and to spread educational opportunities and develop Sakon Nakhon province as the education center of the upper northeast region 4,488 rai. Besides, it provides academic support to projects under the Royal Initiative Projects, it also is a center for progressive agricultural development. Consists of four faculties and one office consisting of four faculties and one office



## Suphan Buri Province

Establishment Project Suphan Buri Province, located at Bang Pla Ma District Suphan Buri Province, with a total area of 761 rai 1 ngan 74.5 square wah or 1.2183 square kilometers. Kasetsart University Council approved to support the implementation of the project under the cabinet resolution. The principles for the expansion of regional public university campuses were approved on October 8, 1996. Education started in 1999 to produce graduates with standards for academic leadership in the lower central region.

# UNIVERSITY ADMINISTRATORS



**Damrong Sripraram, Ph.D.**  
**Acting President**



**Asst.Prof. Nuchanata Mungkung, Ph.D.**  
**Vice President for Finance and Asset Management**



**Asst.Prof. Tanin Kongsila, Ph.D.**  
**Vice President for Human Resources and Strategies**



**Asst.Prof. Khongsak Thiangtum, Ph.D.**  
**Vice President for Academic Affairs and Lifelong Learning**



**Assoc. Prof. Somwang Khantayanuwong, Ph.D.**  
**Vice President for Health Sciences Development and Suphan Buri Areas**



**Prof. Dokrak Marod, Ph.d.**  
**Vice President for Research and Internationalization**



**Asst.Prof. Ratchot Chompunich**  
**Vice President for Student Affairs and Sustainable Development**



**Assoc.Prof. Anan Phonphoem, Ph.D.**  
**Vice President for Digital Technology and Artificial Intelligence**



**Asst.Prof. Krit Won-in, Ph.D.**  
**Vice President for Innovations and Social Missions**



**Assoc.Prof. Anuchai Pinyopummin, DVM, Ph.D.**  
**Vice President for Kamphaeng Saen Campus**



**Assoc.Prof. Sathaporn Chuepeng, Ph.d.**  
**Vice President for Sriracha Campus**



**Assoc.Prof. Sathaporn Chuepeng, Ph.d.**  
**Vice President for Sriracha Campus**



**Asst.Prof. Watcharapong Intrawong, Ph.D.**  
**Vice President for Chalermphrakiat Sakon Nakhon Campus**

# UNIVERSITIES RESPONSIBILITIES

## PHILOSOPHY

Kasetsart University is an institution dedicated to the pursuit, accumulation, and development of knowledge, fostering intellectual growth enriched with academic excellence, ethics, and morality. It also serves as a guide to uphold and transmit the positive intentions of society, contributing to the sustainability, prosperity, and civilization of the nation.

## VISION

A world-class university for learning, research, and innovation, promoting sustainable development based on the Knowledge of the Lands.

## MISSION

1. Generate knowledge through research, innovation, and technology transfer to promote development and enhance the country's competitiveness.
2. Develop human resource competencies to adapt to national and global changes across all age groups.
3. Establish a model learning society to improve the quality of life, society, and communities.

## COREVALUE

**Efficiency, Unity, and Morality.**




# UNIVERSITIES RESPONSIBILITIES : GOALS, STRATEGIES

A yellow lightbulb icon with a black base and a yellow glow, surrounded by small yellow dots, positioned to the left of the first text block.

To continuously pursue high quality research, creative works, and innovation which receive international recognition, and support initiatives that will improve the development of targeted industries in Thailand, such as agriculture, food, forestry, fisheries, and veterinary science

A yellow lightbulb icon with a black base and a yellow glow, surrounded by small yellow dots, positioned to the left of the second text block.

To provide academic programs and produce graduate who meet rigorous international standards, and to build a wide base of citizen participation in sustainable national development

A yellow lightbulb icon with a black base and a yellow glow, surrounded by small yellow dots, positioned to the left of the third text block.

To contribute meaningfully to a multicultural, knowledgebased society and to promote the philosophy of sufficiency economy by giving people access to educational opportunities leading to the acquisition of knowledge in a variety of forms.



1

## STRATEGY 1

To promote and expand Knowledge of the Land that encourages national sustainable development in all sectors of society.

2

## STRATEGY 2

To continuously develop and improve on academic programs that are recognized internationally for educational and research excellence.

3

## STRATEGY 3

To ensure high quality, operational efficiencies that will achieve of the universities' mission and goals.

4

## STRATEGY 4

Building community capacity through education, training, and awareness-raising initiatives enhances adaptive capacity and strengthens community resilience.

5

## STRATEGY 5

To continuously improve the universities' administrative skills and competencies, and to ensure effective management by embracing technological changes

# Policy KU SDGs

Kasetsart University is the first higher education institution in Thailand. It Grows up and develops into a university is "Knowledge of the Land." which is integrity and sustainable, thereby linking with agriculture, which is a basic science of the university, besides, induce the King's science, community science, and international science, which integrated to create academic lead to being a leading university to develop the country sustainably and has an internationally recognized reputation.

Kasetsart University acknowledged the pressing issue of the climate crisis. On March 2, 2023, Dr. Jongrak Watcharinrat, the President of Kasetsart University, announced at the 61st academic conference, " KASETSART for All: Expanding Knowledge of the Land towards Sustainable Wellbeing, " the institution's endorsement of the "KU Goes Green and Carbon Neutrality" policy.

This initiative is in alignment with the country's goals to tackle the climate crisis and achieve the Sustainable Development Goals (SDGs). Building on its reputation as a Green University, Kasetsart aims for complete carbon neutrality by 2035, coinciding with the 80th anniversary of its establishment. Kasetsart University has laid out its policy and objectives to achieve carbon neutrality by 2035.

This includes a strategic plan focusing on: Energy Dimension : Enhancing energy efficiency in buildings, adopting renewable energy sources such as solar roofs and wind farms, and promoting the use of electric vehicles on campus to minimize greenhouse gas emissions. Forest and Green Space Dimension: Evaluating the carbon sequestration potential of the forests and green spaces across its 5 campuses and 26 research stations, spanning roughly 13,000 acres. The goal is to enhance the region's capability to absorb carbon dioxide.

Agricultural Dimension: Encouraging precision agriculture, efficient fertilizer application, abandoning crop burning, promoting alternate wetting and drying rice cultivation techniques, sustainable farming practices, repurposing agricultural waste, and developing low-carbon agricultural products.

Waste and Wastewater Management Dimension: Reducing waste generation, separating waste for recycling in line with the circular economy concept, decreasing wastewater generation, and improving wastewater treatment technologies This initiative seeks to position Kasetsart University as a pioneer in carbon neutrality, serving as a model for societal learning.

Previously, the university organized the "Carbon Neutral Kaset Fair" to measure the carbon emissions from the agriculture fair activities. This was overseen by the Faculty of Environmental Science at Kasetsart University in collaboration with 75 student volunteers. Subsequently, they compensated for the carbon emissions by purchasing carbon credits registered with TGO.

# Objectives

## **Environmental development policy objectives for sustainability Kasetart University are as follows:**

Building cooperation between personnel and students in the university to promote learning and create a sustainable, environmentally friendly working environment. Raise awareness about environmental issues affecting communities and work with communities to fix these problems through teaching activities, research, and academic services. Encourage students to participate in sustainable development projects to create knowledge by effort as part of learning.

Participation of local communities in the care of natural resources and using local resources, therefore the purpose of infrastructure construction.

Commitment to sustainable land management through agroforestry by demonstrating the prototype to the community and society. Protection, monitoring, and conservation of campus flora and fauna and conservation of natural habitats with identifying the invasive species, therefore reducing the impact on local flora and fauna. Clean and affordable energy management to reduce global warming. Promote persistence in biodiversity by maintaining the natural environment by conserving, restoring, and solving soil and water resources in universities and communities. Management of waste generated on campus through proper disposal and treatment. Marine pollution management conserves and sustainably utilizes the oceans, seas, and marine resources for sustainable development from the personnel's knowledge. Planning of structures and architectures that take into account the environment and biodiversity



# PROGRAMS IMPLEMENTATION





**1 NO  
POVERTY**



**END POVERTY IN ALL ITS  
FORMS EVERYWHERE.**

---

**THIS GOAL AIMS TO ERADICATE ALL FORMS OF POVERTY EVERYWHERE, FOCUSING ON REDUCING SEVERE POVERTY, DIMINISHING DISPARITIES, AND FOSTERING EQUAL ECONOMIC OPPORTUNITIES. KASETSART UNIVERSITY HAS VARIOUS RESEARCH PROGRAMS ALIGNED WITH THE VISION AND THE FIRST STRATEGY: "CREATING KNOWLEDGE FOR SUSTAINABLE NATIONAL DEVELOPMENT." THESE STRATEGIES ARE IN LINE WITH THE FIRST GOAL OF THE SUSTAINABLE DEVELOPMENT GOALS (SDGS).**

### “Training and Promotion of Occupations for People in the Laem Chabang Municipality Area.”



Personnel and students from the Faculty of Economics, Kasetsart University, Sriracha Campus, jointly organized a Training and Career Promotion Program for the People in the Laem Chabang Municipality Area\*\*, Sriracha District, Chonburi Province, on January 31, 2025.

The program included income-generating vocational training activities, such as making “Krong Krang Krob” (crispy Thai dessert) and “Processing Agricultural Products” including crispy bananas, sweet potatoes, taro, and pumpkins.

The objective of this project was to provide local residents in the Laem Chabang Municipality particularly those facing unemployment or seeking additional sources of income with opportunities to learn and gain hands-on experience in vocational skills suited to their interests. Participants could then apply the knowledge and skills acquired to establish either a primary or supplementary occupation, thereby increasing their income and improving their family’s financial stability.

Moreover, this initiative aimed to reduce household expenses, promote self-reliance within the community, and ultimately enhance the quality of life of local residents in a sustainable manner.

## **Workshop on “Online Marketing for Communities” Phase II: Enhancing Community Potential toward Sustainability**



The Subcommittee on Community Capacity Development for Climate Change Adaptation (Community Climate Action Team), together with students from the Faculty of Science, Kasetsart University, Sriracha Campus, organized a Workshop on “Online Marketing for Communities” Phase II: Enhancing Community Potential toward Sustainability on June 27, 2025.

The workshop aimed to improve the quality of life of people in communities across the Eastern region, with participation from 32 residents representing four local communities—Ban Chak Yai Chin, Ban Laem Thong, Ban Laem Chabang, and Ban Chak Krapok.

This training program was designed to enhance participants’ knowledge, understanding, and skills in online marketing, enabling them to apply digital technologies to strengthen their personal capacity, household economy, and the broader grassroots economy in a stable and sustainable manner.

Moreover, the project aligns with the Sustainable Development Goals (SDGs) and the 13th National Economic and Social Development Plan, which emphasize inclusive economic growth, decent employment, and active citizen participation, particularly within the Eastern Economic Corridor (EEC) development area.

## **BLACK SOLDIER FLY**

At present, the problem of the amount of waste is increasing and unable to immediately eliminate, often causing the accumulation of waste and environmental problems. More than 50 percent of the waste is scraps of vegetables, fruits, and weeds.

Therefore, the organic waste is composted into fertilizer so that changing the burden to be valued add. As well as helping to reduce problems occurring in the waste-management system and the cost of waste management operations. Also reducing the amount of waste that needs to be disposed, resulting in less landfill.

Currently, Kasetsart University has research related to bring nature to take part in organic waste treatment. The University has brought the Black Soldier Fly Larvae (BSF) to eliminate organic waste. It is also found that the Black Soldier Fly Larvae plays an important role in decomposing food waste, wet waste, and animal dung, including rotten wood chips. In this regard, more than 70% of organic waste will be efficient removed by Black Soldier Fly Larvae. The University has transferred this knowledge to the community, so that the communities nearby to the university can apply method for waste disposal.



## PROGRAMS IMPLEMENTATION GOAL 1 NO POVERTY

Prototype for Food Production from Black Soldier Fly Products Kasetsart University is implementing a project titled “Developing the BCG Economy in the Bang Kachao Community, Phra Pradaeng District, Samut Prakan Province, by Integrating Food Production from Black Soldier Fly Products into Agriculture and Community Tourism.”

The project includes activities and visits to four learning stations: 1. Black Soldier Fly Larvae Production Station 2. Egg-Laying Chicken Farming Station using larvae, pupal casings, and adult remains of the black soldier fly 3. Catfish Farming Station using larvae, pupal casings, and adult remains of the black soldier fly 4. Vegetable Cultivation Station using compost from larvae, pupal casings, and chicken manure

Project: “BCG Economy Development in Bang Kachao Community, Phra Pradaeng District, Samut Prakan Province, Integrating Food Production from Black Soldier Fly Products into Agriculture and Community Tourism” Kasetsart University has been conducting follow-up activities for this project, which aims to develop the BCG (Bio-Circular-Green) economy in the local community. The university has shared comprehensive knowledge on raising black soldier flies throughout their entire life cycle with local schools and communities. As a result of continued participation in workshops and training sessions throughout 2023, the university has introduced a localized curriculum on “Raising and Utilizing Black Soldier Flies.”

Additionally, they have established full-cycle black soldier fly learning centers and have applied for petty patent rights for two key innovations: Patent Application No. 2303000600, filed on March 2, 2023, for an Adult Black Soldier Fly Rearing Facility. Patent Application No. 2302001049, filed on March 14, 2023, for an Egg Storage and Pupae Incubation Cabinet. The project promotes visits and training on the complete life cycle of black soldier flies, attracting many visitors, including government officials, students, and private entities. The primary goal of the project is to minimize organic waste from various activities to achieve near-zero waste, following the Zero Waste concept. The project reuses food waste from schools and agricultural waste to feed black soldier fly larvae, fish, and commercial egg-laying chickens (which are known for high egg production), as well as Kasetsart’s Nilen black chickens, which are valued for their high nutritional content in both meat and eggs. Additionally, larvae, pupal casings, and adult remains of black soldier flies are used to feed chickens and fish. The waste from larvae and chicken manure is then used as organic fertilizer to grow vegetables, which can be used for school lunches and by the community.

**2** ZERO HUNGER



**END HUNGER, ACHIEVE FOOD SECURITY AND IMPROVED NUTRITION AND PROMOTE SUSTAINABLE AGRICULTURE.**

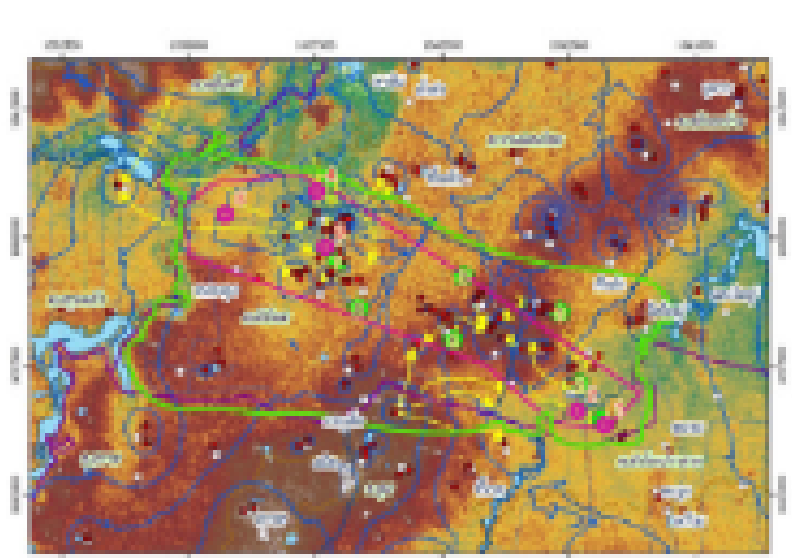
**THIS GOAL EMPHASIZES ENDING HUNGER, ACHIEVING FOOD SECURITY, IMPROVING NUTRITION, AND PROMOTING SUSTAINABLE AGRICULTURE. THE FOCUS IS ON INCREASING AGRICULTURAL PRODUCTION, IMPROVING ACCESS TO FOOD, AND ENSURING FOOD SECURITY. KASSETSART UNIVERSITY HAS VARIOUS RESEARCH PROJECTS ALIGNED WITH THIS VISION, ESPECIALLY UNDER THE FIRST STRATEGY: "CREATING KNOWLEDGE FOR SUSTAINABLE NATIONAL DEVELOPMENT." THIS IS IN LINE WITH THE SUSTAINABLE DEVELOPMENT GOALS (SDGS) GOAL 2.**

# Project on Developing Rice Farmers toward International Organic Certification (EU/NOP) through Water Management for Organic Farming

The project has a four-year implementation period, with the operational area located at the Community Enterprise Group for the Promotion and Production of Community Rice Seeds, Phak Mai Subdistrict, Huai Thap Than District, Sisaket Province.

The project's goal is for 100 rice farmers, cultivating a total area of at least 1,500 rai, to achieve EU/NOP organic certification within four years. The project includes water management through eight shallow groundwater recharge ponds and consists of two main activities:

1. Developing farmers toward international organic farming systems, and
2. Developing shallow groundwater recharge ponds.



## Impact on Carbon Neutrality:

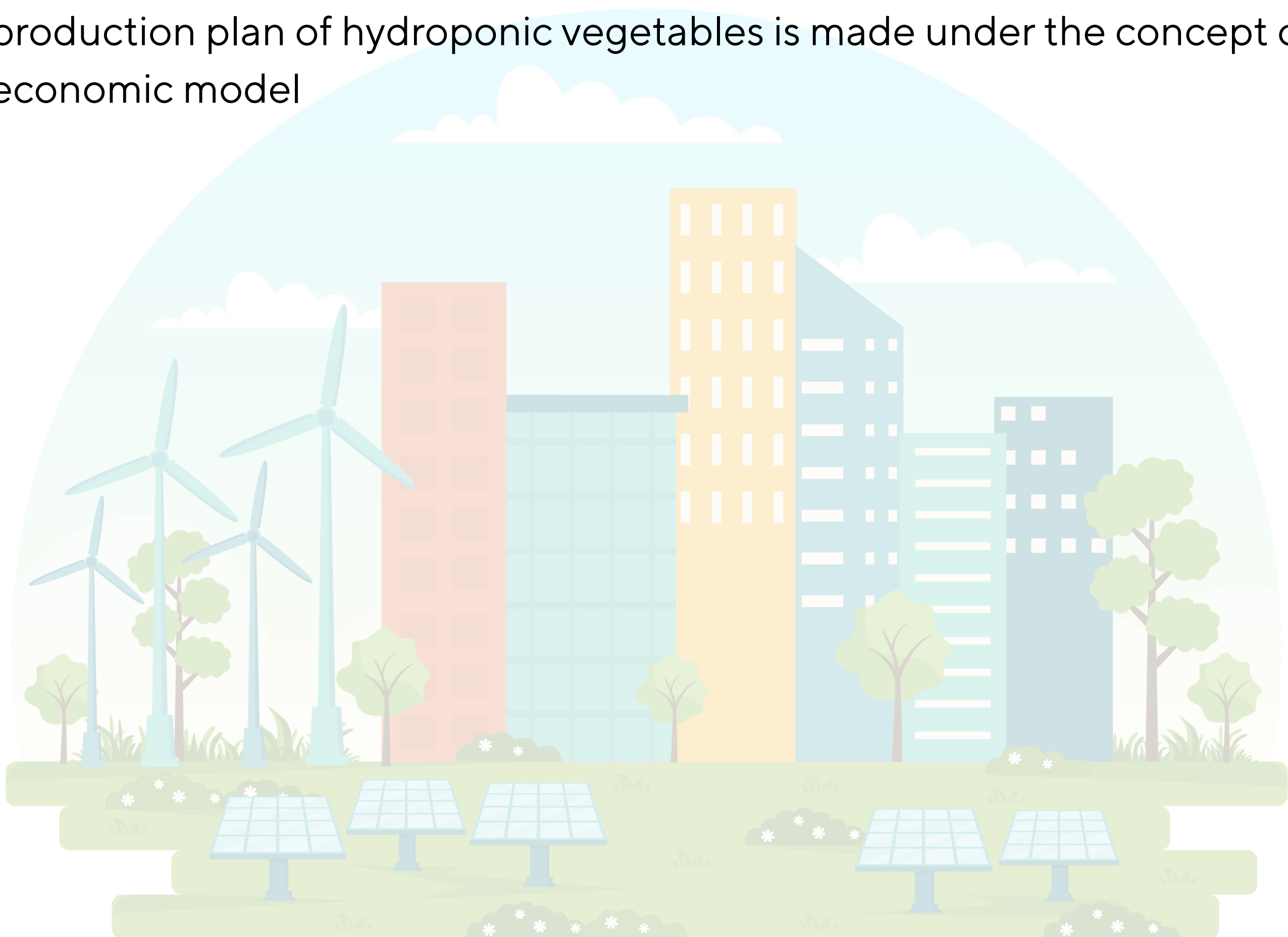
Organic farming helps reduce greenhouse gas emissions and increase carbon sequestration in the soil through the accumulation of organic matter and soil microorganisms—2 to 5 times more than conventional rice farming. Moreover, organic agriculture serves as an adaptive approach to climate change, promoting environmental sustainability and resilience in agricultural practices.



## **FOA SMARTGREENHOUSE**

Faculty of Agriculture, Kasetsart University, created FOA Smart Greenhouse as an all-in-one greenhouse prototype for growing plants without soil. The objectives are to make a technology prototype and develop a course to support a training program, and to be a center for transferring appropriate agricultural technology and innovation for urban people and those who are interested, to provide academic information and practical skills in a greenhouse.

FOA Smart Greenhouse is opened for persons interested so that they can apply the technologies and innovation to their own system for achieving the maximum benefits, in response to the government policies and elevating agricultural products to meet good quality, safety, and value addition. The production plan of hydroponic vegetables is made under the concept of BCG economic model





**3**

**GOOD HEALTH  
AND WELL-BEING**



**ENSURE HEALTHY LIVES AND  
PROMOTE WELL-BEING FOR ALL AT  
ALL AGES.**

---

**THIS GOAL UNDERScores ENSURING  
GOOD HEALTH AND PROMOTING  
WELLBEING FOR EVERYONE ACROSS ALL  
AGE GROUPS. THE EMPHASIS IS ON  
REDUCING PREMATURE MORTALITY  
RATES, ENHANCING MATERNAL AND  
CHILD HEALTH, AND PROVIDING ACCESS  
TO HEALTH SERVICES. KASETSART  
UNIVERSITY HAS RESEARCH PROJECTS  
THAT FOLLOW THIS VISION, ESPECIALLY  
UNDER THE FIRST STRATEGY: "CREATING  
KNOWLEDGE FOR SUSTAINABLE  
NATIONAL DEVELOPMENT" AND THE  
FOURTH STRATEGY: "INTEGRATING  
HEALTH SCIENCES AND  
MEDICAL INNOVATION FOR THE  
WELLBEING OF PEOPLE AND SOCIETY." THIS  
ALIGNS WITH THE SDG GOAL 3.**

## **Academic Service and Public Awareness Activity on Disease Prevention in Communities Surrounding the University.**

Due to the outbreaks of cholera, gastrointestinal and waterborne diseases, and influenza in Thailand, a lecturer in Epidemiology led students from the Bachelor of Public Health program, Faculty of Public Health, Kasetsart University, who were enrolled in the course, to conduct a disease prevention awareness campaign in the communities surrounding the university on January 4, 2025.

Approximately 180 students participated in providing academic service and public health education activities, together with about 38 village health volunteers (VHVs), and around 300 local residents who received knowledge and took part in the campaign.

In addition, the students had the opportunity to develop skills in communication, media production, and academic practice, contributing to both their learning experience and community well-being.



## PROGRAMS IMPLEMENTATION GOAL 3 GOOD HEALTH AND WELL-BEING

SDG 3 is the goal of Good Health and Well-being, which is one of the 17 Sustainable Development Goals of the United Nations. The main goal is "To ensure healthy lives and promote well-being for everyone at every age. Kasetart University is involved in the Sustainable Development Goals, especially SDG 3 on health and well-being. Through conducting research and activities such as gathering knowledge related to the SDGs as a knowledge repository, cooperating with international and government agencies in research and development. It also plays a role in other related SDGs. such as SDG 2 (food security), SDG 12 (sustainable production and consumption) and building partnerships to achieve various goals. Through research projects and academic activities.



## **Conference on “Collaboration for Developing and Promoting Healthy Organizations for Sustainable Development”**

Kasetsart University participated in the conference titled “Collaboration for Developing and Promoting Healthy Organizations for Sustainable Development,” organized under the University of Happiness and Sustainable Health Promotion Academic Center Project. The conference had the following objectives:

- To disseminate efforts on improving quality of life, happiness, health behaviors, and other factors associated with promoting “happy organizations” to the public.
- To share knowledge and innovations from the “University of Happiness to Sustainable Healthy Organizations” initiative with the public.
- To draft guidelines and proposals for “University of Happiness to Healthy Organizations for Sustainable Development” to be submitted for policy consideration by the Office of the Permanent Secretary of the Ministry of Higher Education, Science, Research, and Innovation.

4

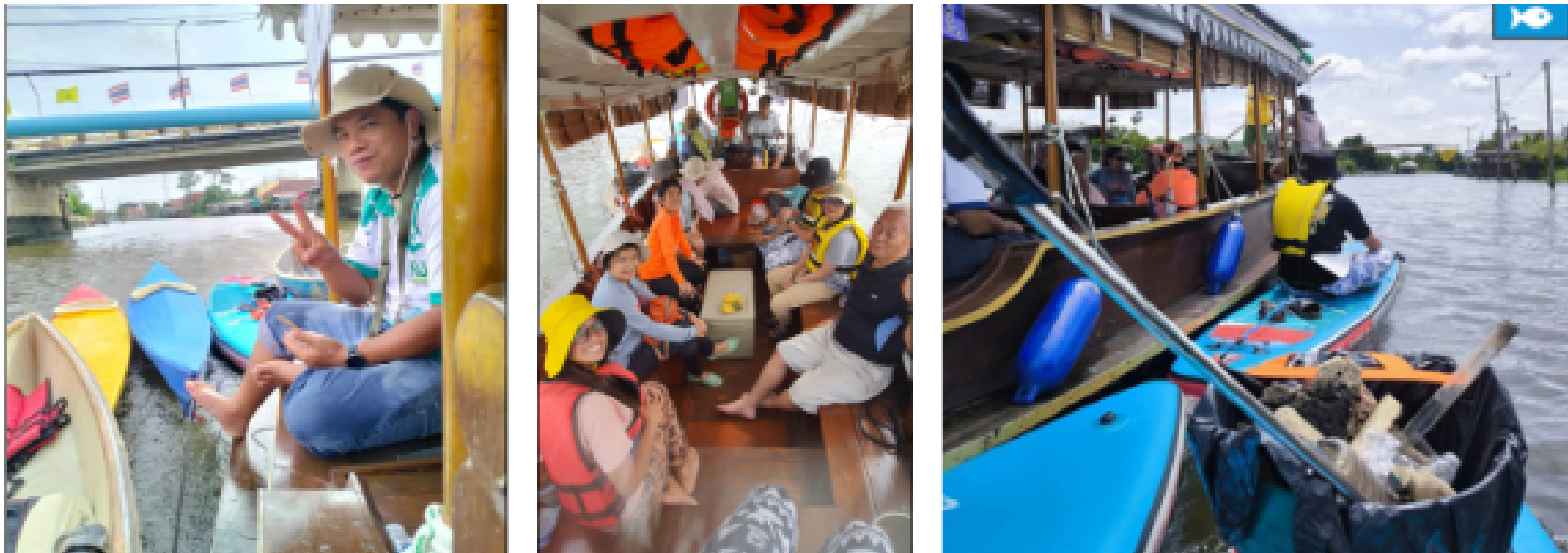
QUALITY  
EDUCATION



**ENSURE INCLUSIVE AND  
EQUITABLE QUALITY EDUCATION  
AND PROMOTE LIFELONG  
LEARNING OPPORTUNITIES FOR  
ALL.**

**THIS GOAL FOCUSES ON PROVIDING  
ACCESS TO QUALITY EDUCATION FOR  
EVERYONE, EMPHASIZING THE  
EXPANSION OF EDUCATIONAL  
OPPORTUNITIES, IMPROVING THE  
QUALITY OF EDUCATION, AND  
PROMOTING LIFELONG LEARNING.  
KASETSART UNIVERSITY HAS VARIOUS  
RESEARCH PROJECTS IN LINE WITH ITS  
VISION AND STRATEGY, PARTICULARLY  
GOAL 2: ADVANCING TO ACADEMIC  
EXCELLENCE AT THE GLOBAL LEVEL,  
AIMING TO ENHANCE THE QUALITY AND  
STANDARDS OF EDUCATION. THIS  
ALIGNS WITH THE SUSTAINABLE  
DEVELOPMENT GOALS  
(SDGS),SPECIFICALLYGOAL4.**

## **Waste Collection and Cultural Waterscape Learning Activity: Integrating Architectural Heritage Knowledge with Sustainable Water Resource Conservation**



The Department of Architecture, Kasetsart University, organized a field-based learning activity under the course 0124952 Theory of Architectural and Urban Heritage Conservation on September 6, 2024, at Khlong Om Non, Nonthaburi Province. The aim was to promote experiential learning that connects cultural heritage preservation with natural resource conservation.

The activity involved kayaking to collect waste in the canal and studying the cultural waterscape alongside the local community. It was conducted in collaboration with multiple partners from the public, private, and civil society sectors, including Kayak and Community Thailand, Nonthaburi Kayak Club, S. Thongprasert solar-powered boats, and the Puey Learning Park (Thammasat University).

The initiative aimed to raise environmental awareness among youth, encourage civic engagement, and support the United Nations Sustainable Development Goals (SDGs)—particularly SDG 14: Life Below Water, SDG 11: Sustainable Cities and Communities, and SDG 4: Quality Education. The outcomes demonstrated that students were able to connect architectural heritage knowledge with contemporary environmental issues. They developed a deeper understanding of their roles as future designers and active citizens, while directly contributing to the conservation of local water resources.

## **Library Handover for Community and Society at Wat Nong Krathum School, Kamphaeng Saen District, Nakhon Pathom Province**

Kasetsart University held a project to hand over a renovated and modernized library to Wat Nong Krathum School in Kamphaeng Saen District. The project included educating students on waste separation, promoting learning activities, energy conservation awareness, organizing slogan contests, upcycling competitions, and a walk rally. Scholarships, school supplies, and sports equipment were also donated to the school. This activity aligns with the SDGs



5

GENDER  
EQUALITY



**ACHIEVE GENDER EQUALITY AND EMPOWER ALL WOMEN AND GIRLS.**

---

**THIS GOAL FOCUSES ON CREATING A WORLD OF GENDER EQUALITY BY ELIMINATING DISCRIMINATION AGAINST WOMEN AND GIRLS AND PROMOTING GENDER EQUALITY IN ALL ASPECTS. KASETSART UNIVERSITY HAS VARIOUS RESEARCH PROJECTS ALIGNED WITH ITS VISION AND STRATEGY, PARTICULARLY GOAL 3, WHICH AIMS TO ENHANCE THE QUALITY AND EFFICIENCY OF OPERATIONS BASED ON ETHICAL PRINCIPLES, DEVELOP UNIVERSITY MANAGEMENT AND ADMINISTRATION SYSTEMS TO BE EFFICIENT AND TRANSPARENT, AND PROMOTE GENDER EQUALITY IN ALL AREAS, ALIGNING WITH SDG GOAL 5.**

## PROGRAMS IMPLEMENTATION GOAL 5 GENDER EQUALITY

Kasetsart University's university management and student organizations are actively involved in promoting equal marriage rights, freedom, and gender equality. The goal is to bring about changes in the legal framework for equal marriage rights, emphasizing that regardless of gender, race, religion, or skin color, everyone has the right to choose their marital status equally. Students have the freedom to dress according to their gender identity, whether it is for learning, exams, or graduation. This can be done without the need for a medical certificate or the submission of a request for attire based on gender identity.

Announcement of the cancellation of the use of gender prefixes and the cancellation of the enforcement of Thai numbers in documents within student organizations, student clubs, and activity organizations. The announcement of the discontinuation of the use of prefixes shall serve as a guideline within the documents of the student organization, including the Student Union, associations, and activity groups.

The objective is to signify our commitment to gender equality and non-discrimination in any gender-related practices. The cancellation of the requirement to use Thai numerals and the adoption of Arabic numerals within the organizational documents of the Student Union and its associations aim to enhance efficiency and modernization in line with international contexts. In official documents, any pushback from the Student Union will influence future implementation throughout the university. In the proclamation, the cancellation serves as a means to grant freedom to all organizations, including student organizations, associations, clubs, and groups, to adapt to various contexts. This cancellation of obligations aims to promote freedom of choice, such as in sports data, physical activity records, and gender-based performance metrics, all subject to the individual organization's discretion.



6

CLEAN WATER  
AND SANITATION



**ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL.**

**THIS GOAL FOCUSES ON ACCESS TO CLEAN WATER AND HEALTHCARE FOR EVERYONE, WITH AN EMPHASIS ON INCREASING ACCESS TO CLEAN AND SAFE DRINKING WATER, IMPROVING HEALTHCARE, AND SUSTAINABLE WATER MANAGEMENT. KASETSART UNIVERSITY HAS VARIOUS RESEARCH PROJECTS IN LINE WITH ITS VISION AND STRATEGY 1: "CREATING INDIGENOUS WISDOM FOR SUSTAINABLE DEVELOPMENT" AND STRATEGY 5: "ENHANCING CAPACITY IN RESOURCE MANAGEMENT FOR SUSTAINABILITY UNDER CHANGING CONDITIONS," WHICH ALIGN WITH SDG GOAL 6.**

# PROGRAMS IMPLEMENTATION GOAL 6 CLEAN WATER AND SANITATION

## Kasetsart University survey and planning for the establishment of an educational area in Bo Thong District, Chonburi Province.



Kasetsart University has conducted a survey and plans to establish a study area in Bo Thong District, Chonburi Province. The main objectives are to serve as a field training center for Kasetsart University students and to promote the “Smart Farmer” project, aiming to create a model farm in the community that integrates agriculture and efficient water resource management.

The goals include research and establishing an important knowledge center for community infrastructure development, leading to sustainability in various aspects in the future. Recently, Kasetsart University collaborated with the Water Resources Office 6 to survey the topography and design the project area for the Sustainable Agricultural Innovation Center in the Eastern Region.

This collaboration aims to identify water sources and manage water resources effectively to support research and development at Kasetsart University, while also providing academic services to the surrounding community, focusing on enhancing the sustainable quality of life for residents.



# PROGRAMS IMPLEMENTATION GOAL 6 CLEAN WATER AND SANITATION

## KU has installed rain gauge devices on the rooftops of buildings.

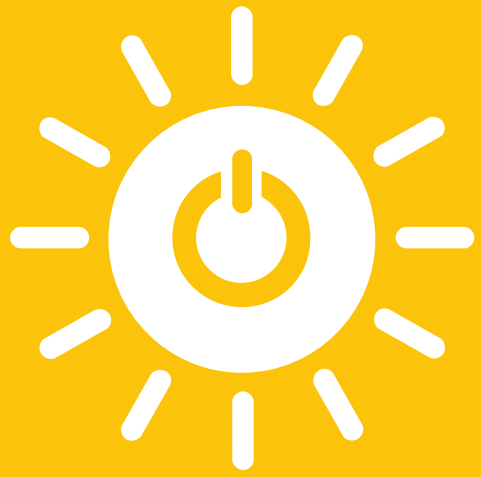
Kasetsart University has installed rain gauge devices on the rooftops of its buildings. These devices can measure rainfall amounts in nearby areas and continuously record data. This data supports both research and community service activities in various ways.

The rain gauges on KU's building rooftops provide real-time data through a website, with a team of experts analyzing and reporting. This information aids in forecasting rainfall amounts for agricultural areas and for activities requiring rainfall and atmospheric humidity data.



**7**

**AFFORDABLE AND  
CLEAN ENERGY**



**ENSURE ACCESS TO AFFORDABLE,  
RELIABLE, SUSTAINABLE AND  
MODERN ENERGY FOR ALL.**

---

**THIS GOAL EMPHASIZES ACCESS TO  
CLEAN AND AFFORDABLE ENERGY FOR  
EVERYONE, WITH A FOCUS ON  
INCREASING ACCESS TO CLEAN AND SAFE  
ENERGY AND PROMOTING EFFICIENT  
ENERGY USE. KASETSART UNIVERSITY  
CONDUCTS VARIOUS RESEARCH  
PROJECTS IN LINE WITH ITS VISION AND  
STRATEGY 1: "CREATING INDIGENOUS  
WISDOM FOR SUSTAINABLE  
DEVELOPMENT" AND STRATEGY 7:  
"DEVELOPING KNOWLEDGE AND  
INNOVATION TO MEET SOCIETAL AND  
NATIONAL NEEDS. "  
ADDITIONALLY, THESE EFFORTS ALIGN  
WITH SDG GOAL 7.**

## PROGRAMS IMPLEMENTATION GOAL 7 AFFORDABLE AND CLEAN ENERGY

### DEVELOPMENT OF CLEAN ENERGY BOATS



Associate Professor Dr. Yodchai Tia-phen from the Department of Marine Engineering at the International Maritime Business Faculty, Kasetsart University, Sriracha Campus, and his research team have collaborated to study, design, and develop clean energy boats powered by electricity. These boats are intended to serve as passenger transport in the Saen Saeb Canal, replacing the current gasoline-powered boats in use.

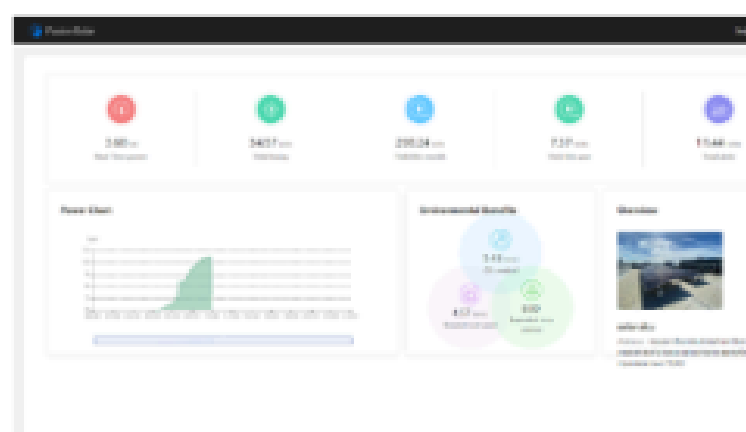
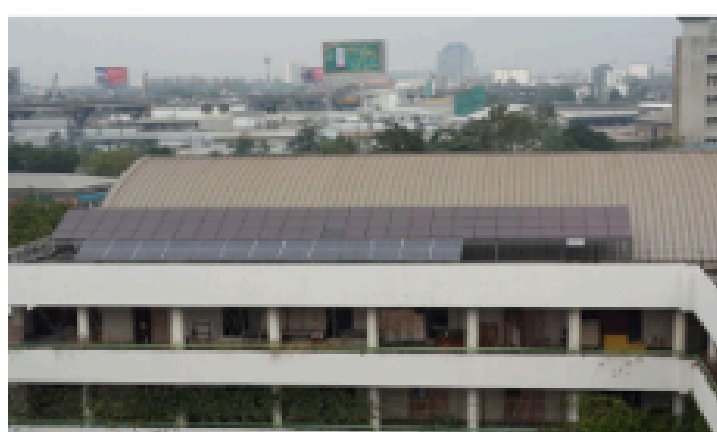
Computational Fluid Dynamics (CFD) simulation can be utilized to design energy-efficient boats and optimize the propulsion system (propeller) for electric boats, ensuring high efficiency that aligns with the size and speed of the electric motor. The use of CFD simulation has become increasingly popular in modern boat design, as it helps reduce costs and significantly shortens the design timeline. The development of electric boats for passenger transport also requires studying various conditions and constraints to be considered alongside engineering design. This way, electric boats can fully replace traditional gasoline-powered boats in the near future.

## PROGRAMS IMPLEMENTATION GOAL 7 AFFORDABLE AND CLEAN ENERGY

On December 19, 2023, Dr. Chongrak Wachrinrat, President of Kasetsart University, signed a service contract with Mr. Wilas Chaloyasat, Governor of the Metropolitan Electricity Authority (MEA), for the installation and maintenance of energy-saving equipment. This agreement is part of the renewable energy production system or alternative energy project between the MEA and Kasetsart University. The ceremony took place at the Kamphon Adulwit Room, 50th Anniversary Information Building at Kasetsart University.

The Governor of the MEA revealed that, as a state enterprise responsible for managing electricity distribution in Bangkok, Nonthaburi, and Samut Prakan, the MEA is driving the government's renewable energy policies and is pleased to collaborate with Kasetsart University. The installation of a 10.14 MWp Solar Rooftop system will reduce fossil energy consumption by approximately 12,967.96 MWh per year, resulting in a reduction of approximately 6,185.71 tons of CO<sub>2</sub> per year, equivalent to planting 351,461 teak trees. This project aligns with Thailand's Carbon Neutrality goal by 2050 and aims for Net Zero Emissions by 2065 as part of the national energy development plan.

The President of Kasetsart University stated that this project provides a valuable opportunity for the university to participate in sustainable and efficient energy usage. Kasetsart University supports global sustainable development policies, reducing reliance on imported fossil fuels and contributing to state conservation policies. Additionally, it aligns with the goal of Carbon Neutrality by 2050 and Net Zero Emissions by 2065. This initiative reflects the social and environmental responsibilities of both organizations, focusing on reducing the country's greenhouse gas emissions, and aligns with the BCG (Bio-Circular-Green) Economy Model, particularly its focus on Green Economy—promoting low-impact environmental activities, reducing global warming, and achieving sustainable development for the benefit of the university, society, and the planet.





**8**

**DECENT WORK AND  
ECONOMIC GROWTH**



**PROMOTE SUSTAINED, INCLUSIVE  
AND SUSTAINABLE ECONOMIC  
GROWTH, FULL AND PRODUCTIVE  
EMPLOYMENT AND DECENT WORK  
FOR ALL.**

---

**THIS GOAL EMPHASIZES THE CREATION  
OF JOBS AND SUSTAINABLE ECONOMIC  
GROWTH, WITH A FOCUS ON  
INCREASING EMPLOYMENT RATES,  
PROMOTING SUSTAINABLE ECONOMIC  
DEVELOPMENT, AND ENHANCING  
WORKFORCE SKILLS. KASETSART  
UNIVERSITY CARRIES OUT VARIOUS  
RESEARCH PROJECTS IN LINE WITH ITS  
VISION AND STRATEGY,  
INCLUDING GOAL 2: DEVELOPING  
ACADEMIC EXCELLENCE AT THE GLOBAL  
LEVEL, ALIGNING WITH  
THE SDGS, SPECIFICALLY GOAL 8.**

# PROGRAMS IMPLEMENTATION GOAL 8 DECENT WORK AND ECONOMIC GROWTH

## KASET FAIR 2025

The Kaset Fair is an annual event organized by Kasetsart University to help vendors and farmers to provide distribution channels, resulting in a large amount of waste. Since the past few years, the university has set up waste sorting kiosks, but students have advised visitors to the Kaset Fair a waste sorting point manually.



## PROGRAMS IMPLEMENTATION GOAL 8 DECENT WORK AND ECONOMIC GROWTH

Kasetsart University organizes the KU Job Fair & Education 2024 by using the ATTRA CARD system, a modern registration system of Attra Intergroup Co., Ltd., an entrepreneurial student under the incubation program of Kasetsart University. At the event, there will be booths of leading entrepreneurs and companies from all over the country that are recruiting for jobs, both in the form of full-time jobs, part-time jobs, and internships. Participants will also get to know the companies up close. If graduates are ready, the companies are ready to interview immediately.

There will also be booths for further education guidance by alumni who are government scholarship recipients and have studied abroad to provide advice, as well as booths to provide advice on preparing CVs and resumes by HR representatives from leading companies to introduce participants. These activities will not only help students prepare for entering the labor market, but also support sustainable economic growth in the community and the country.



**9** INDUSTRY, INNOVATION  
AND INFRASTRUCTURE



**BUILD RESILIENT  
INFRASTRUCTURE, PROMOTE  
INCLUSIVE AND SUSTAINABLE  
INDUSTRIALIZATION AND FOSTER  
INNOVATION.**

---

**THIS GOAL FOCUSES ON PROMOTING THE  
DEVELOPMENT OF SUSTAINABLE  
INDUSTRIES, INNOVATION, AND  
INFRASTRUCTURE. IT EMPHASIZES  
INCREASING THE COMPETITIVENESS OF  
INDUSTRIES, PROMOTING INNOVATION,  
AND DEVELOPING SUSTAINABLE  
INFRASTRUCTURE. KASETSART  
UNIVERSITY CARRIES OUT VARIOUS  
RESEARCH PROJECTS IN LINE WITH ITS  
VISION AND STRATEGY, INCLUDING  
GOAL 2: DEVELOPING ACADEMIC  
EXCELLENCE AT THE GLOBAL LEVEL,  
ALIGNING WITH THE  
SDGS, SPECIFICALLY GOAL 9.**

## **PROGRAMS IMPLEMENTATION GOAL 9**

### **INDUSTRY, INNOVATION AND INFRASTRUCTURE**

#### **THE INNOVATION IN INFRASTRUCTURE AND CONSTRUCTION MANAGEMENT RESEARCH GROUP , IICM**

To study the development of database management system to enhance the design efficiency of the construction and management of infrastructure and transportation system. To study the application of Intelligent Transportation System technology for automatic monitoring and data storage to optimize the management and monitoring of operations as well as increase the safety of the transportation system.

To study the application of geographic information system in survey, design, construction management and manage the infrastructure and transport system. To study the development of information technology system to enhance the design, construction management and management of infrastructure and transport system. To study engineering economics in the design, management, construction and management of infrastructure and transport systems.

To study the Artificial Intelligent for Smart cities To study the development of automation systems in civil engineering to enhance the efficiency in the construction of infrastructure and transport systems. To study the response behavior of road structure. This is due to the force of the truck's weight and external factors. Performance data and Highway Performance under conditions of use. Conditions and context of Thailand To study the development of green building and infrastructure (Green Building and Infrastructure) To study the strengthening of small and medium truck operators.


# PROGRAMS IMPLEMENTATION GOAL 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

## FIELD CONSULTATION ON MARKETING, PRODUCT DEVELOPMENT, AND SME POTENTIAL ASSESSMENT

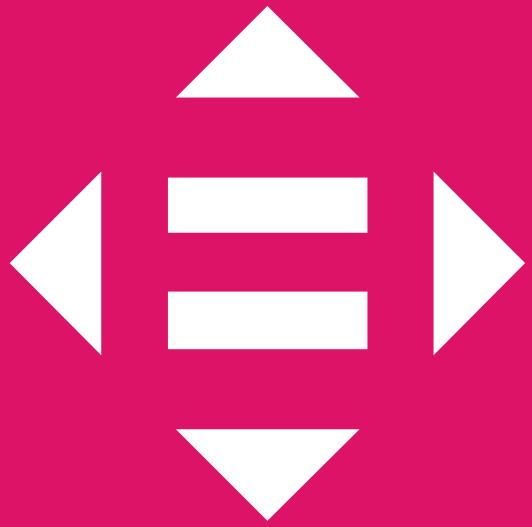
The Kasetsart University Extension and Training Center at Kamphaeng Saen, in collaboration with the Department of Business Administration and Accounting, Faculty of Liberal Arts and Science, conducted a field consultation on marketing, product development, and the potential assessment of SME entrepreneurs at Ban Nien Na, Muang District, Kanchanaburi Province.

The goal was to enhance business competitiveness and develop a learning center for agricultural product processing.





**10** REDUCED  
INEQUALITIES



**REDUCE INEQUALITY WITHIN  
AND AMONG COUNTRIES.**

---

**THIS GOAL AIMS TO REDUCE ALL FORMS OF INEQUALITY, FOCUSING ON INCOME INEQUALITY, REDUCING DISPARITIES IN OPPORTUNITIES, AND PROMOTING SOCIAL EQUALITY. KASETSART UNIVERSITY CARRIES OUT VARIOUS RESEARCH PROJECTS IN LINE WITH ITS VISION AND STRATEGY, INCLUDING GOAL 2: DEVELOPING ACADEMIC EXCELLENCE AT THE GLOBAL LEVEL AND GOAL 3: IMPROVING THE QUALITY AND EFFICIENCY OF OPERATIONS BASED ON ETHICAL PRINCIPLES, PROMOTING EFFICIENT AND TRANSPARENT MANAGEMENT SYSTEMS, AND PROMOTING EQUALITY IN ALL ASPECTS, ALIGNING WITH THE SDGS, SPECIFICALLY GOAL 10.**

# PROGRAMS IMPLEMENTATION GOAL 10 REDUCED INEQUALITIES

Kasetsart University It is a model educational institution with an ecosystem of student activities and budget allocation that supports students. Kasetsart University Be ready to carry out projects and participate in projects that are beneficial to society. As well as continuously supporting student volunteer activities for the public benefit both inside and outside the university.



## KU-KU STUDENT EXCHANGE PROGRAM

KU-KU Student Exchange Program Three undergraduate students from the Faculty of Science have been selected to participate in the KU-KU Student Exchange Program in Kyoto, Japan for a period of 2 weeks. This is a shortterm exchange program for students, teachers, and staff between Kasetsart University and Kyoto University. It is an ongoing project to study sustainable academic knowledge in agriculture, fisheries, forestry, agro-industry, economics, and related fields.



**11 SUSTAINABLE CITIES  
AND COMMUNITIES**



**MAKE CITIES AND HUMAN SETTLEMENTS INCLUSIVE, SAFE, RESILIENT AND SUSTAINABLE.**

---

**THIS GOAL FOCUSES ON THE SUSTAINABLE DEVELOPMENT OF CITIES AND HUMAN SETTLEMENTS, TAKING INTO ACCOUNT VARIOUS FACTORS SUCH AS INCLUSIVITY, SAFETY, FLEXIBILITY, AND ENVIRONMENTAL CONSERVATION. IT AIMS TO IMPROVE ACCESS TO SAFE AND AFFORDABLE HOUSING, ENHANCE URBAN TRANSPORTATION AND MOBILITY, AND ALIGN WITH THE VISION AND STRATEGY OF SUSTAINABLE DEVELOPMENT GOAL 11.**

# PROGRAMS IMPLEMENTATION GOAL 11 SUSTAINABLE CITIES AND COMMUNITIES

## KU Launches New Central Wastewater Treatment System to Promote Sustainable Development and Green Campus Initiatives

Kasetsart University (KU) has officially launched its new central wastewater treatment system, located behind the 50th Anniversary Information Building, near the Faculty of Fisheries and the Faculty of Environment. This project plays a crucial role in supporting the university's Sustainable Development Goals (SDGs) and Green Campus policy.

The new system can accommodate wastewater from all faculties, offices, and institutes across the campus, with a capacity of 1,300–1,400 cubic meters per day. Wastewater is collected via underground pipelines and treated at a modern, centralized facility designed for improved efficiency.

This innovation emphasizes environmental protection and resource efficiency. Treated water is reused on campus for activities such as plant irrigation, road cleaning, and machinery washing. Sludge from the treatment process is repurposed as fertilizer, promoting a circular resource system and reducing environmental waste.

Funded by the national budget for fiscal year 2025, the project received a total of 15.8 million baht. Construction began on November 13, 2024, and was completed on August 28, 2025, under the supervision of the Division of Physical and Sustainable Environment, KU.

This initiative aligns with several key SDGs:

SDG 6: Clean Water and Sanitation

SDG 11: Sustainable Cities and Communities

SDG 12: Responsible Consumption and Production

SDG 13: Climate Action

The project represents another significant step in KU's commitment to becoming an environmentally responsible institution and a model for sustainable development in higher education across Thailand.



# PROGRAMS IMPLEMENTATION GOAL 11 SUSTAINABLE CITIES AND COMMUNITIES

Program to limit or decrease the parking area on campus for the last 3 years (from 2022 to 2024) a condition that reflects your university's current initiatives on the availability of transportation to limit or decrease the number of private vehicles on your campuses (i.e., car-free days, car sharing, charging high parking fees, metro/tram/bus services, bike-sharing, low fare subscriptions, limiting student's car, etc.) : > 3 initiatives or initiative is no longer required

**Restricting or reducing parking spaces in Kasetsart University**

- ✓ Limiting parking Zone
- ✓ Public transport services
- ✓ Free bicycle for rent
- ✓ Electric scooter and motorcycle
- ✓ The walking street and cover way area
- ✓ One-way traffic management
- ✓ Smart Parking: Barrier systems in the areas
- ✓ No-parking areas and prohibited entry into the KU
- ✓ Improving Road and traffic routes within KU



# PROGRAMS IMPLEMENTATION GOAL 11 SUSTAINABLE CITIES AND COMMUNITIES

Zero Emission Vehicles (ZEV) policy on campus has been formulated by Kasetsart University to support pollution-free travel within the university by promoting the use of vehicles that reduce carbon dioxide emissions and noise pollution in order for students and personnel to avoid using various types of cars and turn to public transportation that the university provides more.



**AVERAGE NUMBER OF 10,228 ZEV ON CAMPUS PER DAY**

ZEV provided by university without fee.



6 Electric Buses



11 Electric Trams



7,849 Bicycles

MOU between corporates and KU and charged.



1,500 Scooters



84 Electrical Motorcycles



10 Electrical Tuk Tuk



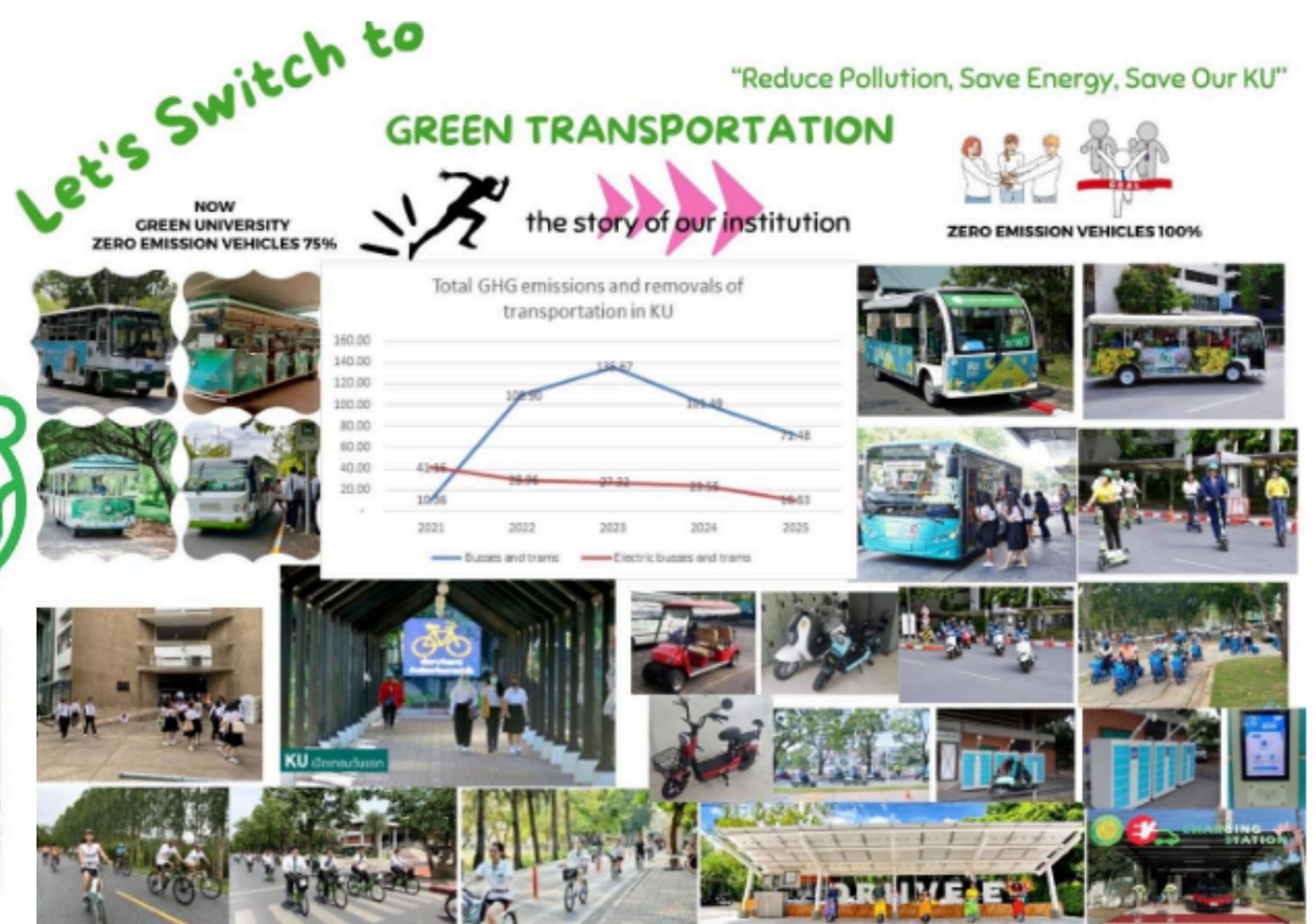
718 electric bicycles



Encourage agencies to use golfcart to coordinate within KU instead of cars or motorcycles.



50 Golfcarts



# PROGRAMS IMPLEMENTATION GOAL 11 SUSTAINABLE CITIES AND COMMUNITIES

## All programs related to Transportation

KU Go Green “KU Bike, KU EVWin, and KU Talai”

Kasetsart University has been ranked as the number one environmentally friendly “Green University” in Thailand for three consecutive years. To continue its commitment to sustainable green initiatives, one of its key policies is to encourage students and staff to use eco-friendly public transportation.

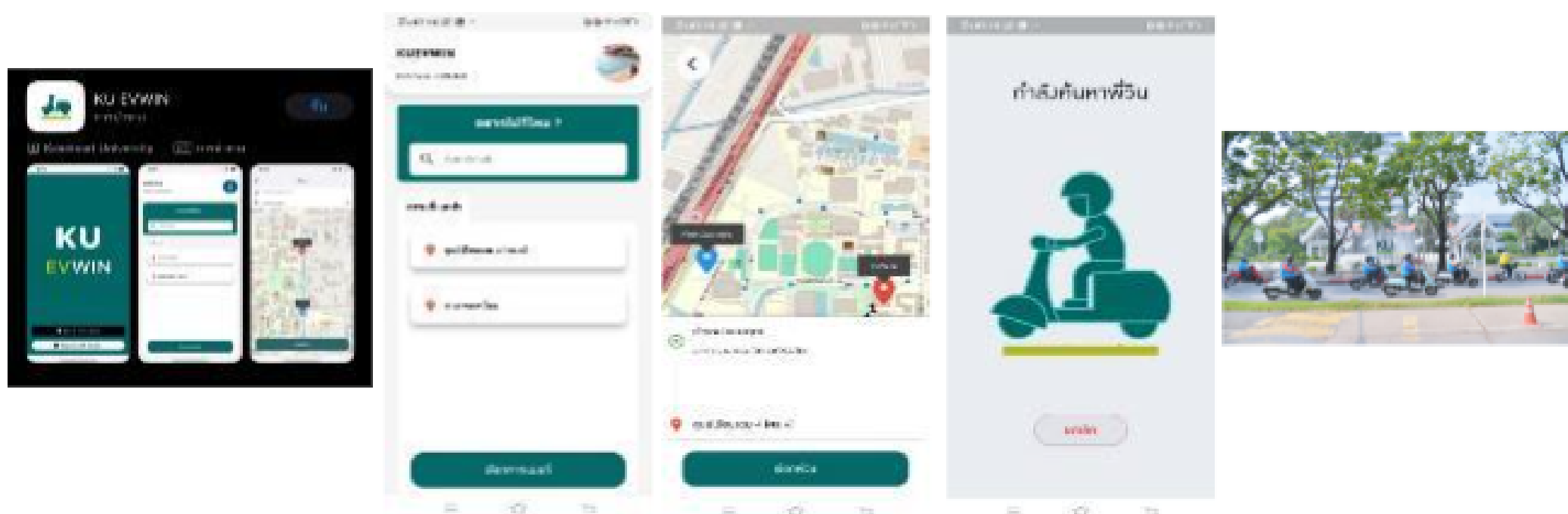
These services include bicycles, electric welfare buses, and electric motorcycle taxis. To support and facilitate the use of green public transportation for students, staff, and the general public, Kasetsart University has developed three mobile applications:

KU Bike – This app allows users to borrow and return bicycles on their own, with a convenient service.

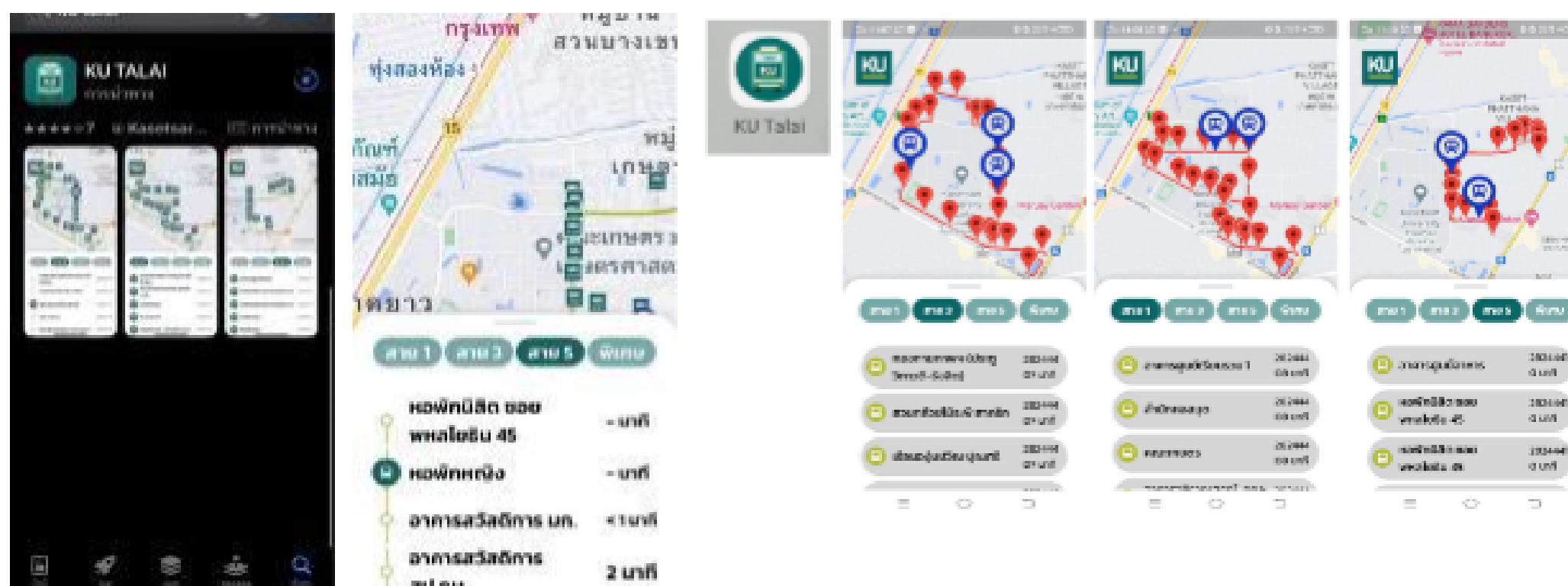


# PROGRAMS IMPLEMENTATION GOAL 11 SUSTAINABLE CITIES AND COMMUNITIES

**KU EV Win** – This app is for calling electric motorcycle taxis to various points within Kasetsart University, offering convenience and safety. The drivers are registered in the system, service records are maintained, and the vehicles are tracked via GPS.



**KU Talai** – This app provides real-time information on the arrival times of “Talai” shuttle buses at each stop. It displays a map showing the bus stops and the current locations of the shuttle buses on each route, helping users find the nearest stop and reduce waiting times. It also allows users to plan their trips more efficiently.



These mobile applications were developed by Kasetsart University students as part of an initiative to promote participation and instill the principles of the Sustainable Development Goals (SDGs) in the university community. The digital technology enhances the safety and health of public transportation services. Students and staff can check the number of buses and routes through the KU Talai application for real-time travel planning. In the future, it will develop into a smart bus stop. Additionally, there are accommodations provided for students and staff within the university's premises, which helps in managing transportation effectively.



**12 RESPONSIBLE  
CONSUMPTION  
AND PRODUCTION**



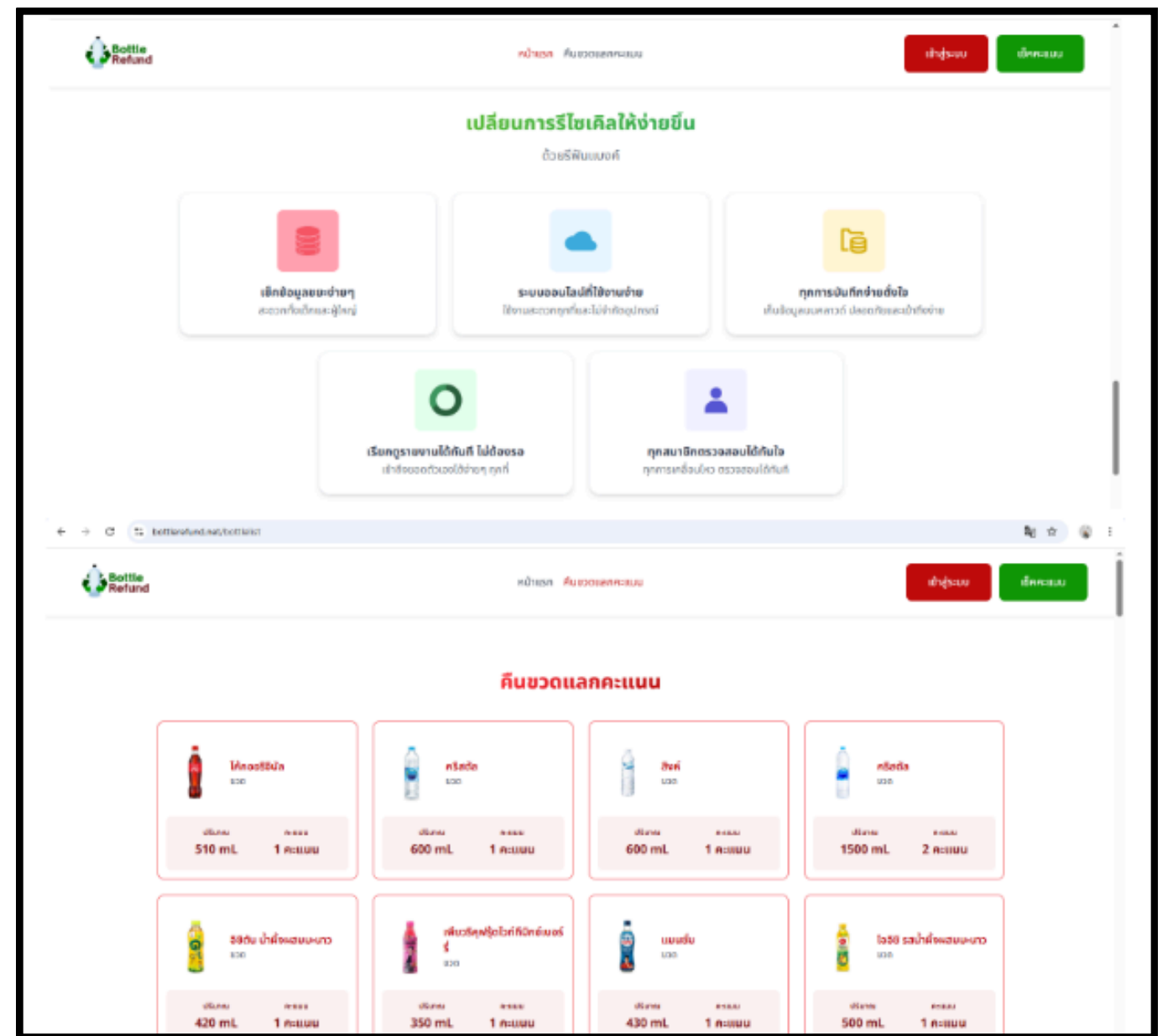
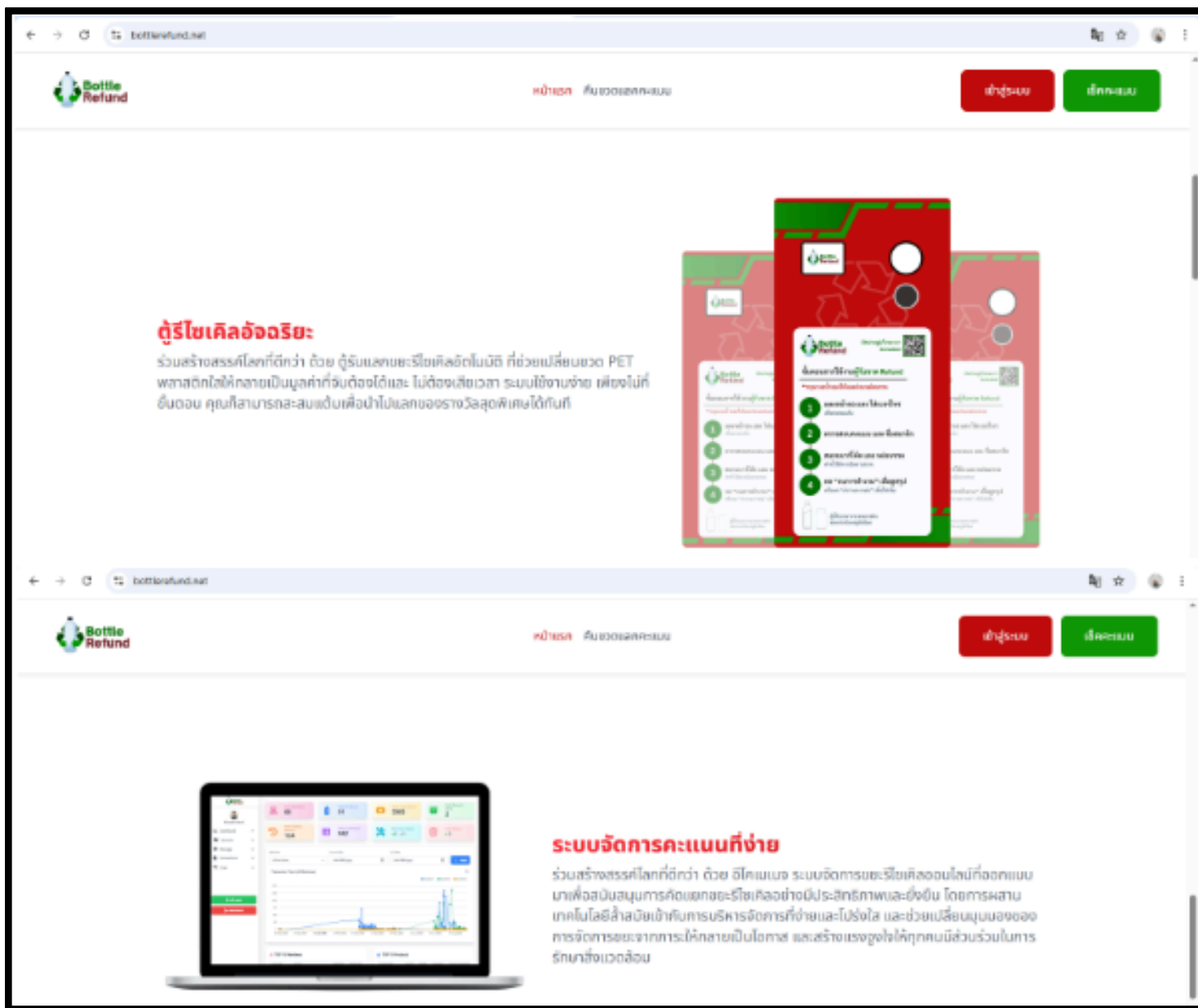
**ENSURE SUSTAINABLE  
CONSUMPTION AND  
PRODUCTION PATTERNS.**

---

**THIS GOAL EMPHASIZES PROMOTING RESPONSIBLE CONSUMPTION TO MITIGATE IMPACTS ON THE ENVIRONMENT AND SOCIETY, REDUCING FOOD WASTE, ADVOCATING FOR SUSTAINABLE CONSUMPTION AND PRODUCTION, AND MINIMIZING ENVIRONMENTAL IMPACTS. IN LINE WITH THIS, KASETSART UNIVERSITY HAS VARIOUS RESEARCH INITIATIVES THAT ADHERE TO ITS VISION AND STRATEGY 1: 'CREATING THE SCIENCE OF THE LAND FOR SUSTAINABLE NATIONAL DEVELOPMENT', AND STRATEGY 5: 'ENHANCING THE CAPABILITY IN RESOURCE MANAGEMENT AND ADMINISTRATION FOR SUSTAINABILITY IN THE FACE OF CHANGE', WHICH ALIGNS WITH THE SUSTAINABLE DEVELOPMENT GOALS (SDGS) GOAL 12.**

# PROGRAMS IMPLEMENTATION GOAL 12 RESPONSIBLE CONSUMPTION AND PRODUCTION

## Smart Recycling Machine



Kasetsart University lecturers have developed a smart recycling machine to help convert clear PET plastic bottles into tangible value without wasting time. The system is easy to use, requiring only a few steps for anyone to accumulate points to redeem rewards. It features a simple point management system through EcoManage, an online recycling management system designed to support efficient and sustainable recycling.

By integrating advanced technology with easy and transparent management, the system transforms waste management from a burden into an opportunity and motivates everyone to participate in environmental conservation.



**Bottle Refund | ระบบคืนขวด แลกของรางวัล**  
ระบบคืนขวด Bottle Refund คืนง่าย แลกของรางวัลทันที ใช้  
งานได้ทั้งองค์กรและบุคคลทั่วไป  
[bottlerefund.net /](http://bottlerefund.net/)

# PROGRAMS IMPLEMENTATION GOAL 12 RESPONSIBLE CONSUMPTION AND PRODUCTION

## GREEN UNIVERSITY, DUMPING AND RECYCLING (TING, TURN)



Green University, Dumping and Recycling (Ting, Turn) for the World to Remember. It is the project with the cooperation between AIS, PTT GC and educational institutions. The project aims to raise conscience and awareness of waste management in universities and encourage younger generation to propel environment issues through a platform and application for participating in reducing the emission of carbon dioxide (CO<sub>2</sub>) and bring plastic and e-waste to the correct recycling process accordingly.

Kasetsart University invites its students and personnel or interested persons to participate in the "Dumping and Recycling (Ting, Turn) for the World to Remember" project" for disposing of plastic waste and e-waste correctly to ensure such waste are appropriately managed and brought back to the recycling process correctly. Students are able to download Application E- Waste by AIS and You Turn Mobile Application to become cooperative participants in collecting waste easily by themselves.

**13** CLIMATE ACTION



**TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACTS.**

**THIS GOAL FOCUSES ON ADDRESSING THE ISSUE OF CLIMATE CHANGE, WHICH IS A GLOBAL EMERGENCY. IT AIMS TO REDUCE GREENHOUSE GAS EMISSIONS, ADAPT TO THE EFFECTS OF CLIMATE CHANGE, AND PROMOTE INTERNATIONAL COOPERATION IN COMBATING CLIMATE CHANGE. KASETSART UNIVERSITY HAS VARIOUS RESEARCH INITIATIVES THAT ADHERE TO ITS VISION AND STRATEGY 1: 'CREATING THE SCIENCE OF THE LAND FOR SUSTAINABLE NATIONAL DEVELOPMENT', AND STRATEGY 5: 'ENHANCING THE CAPABILITY IN RESOURCE MANAGEMENT AND ADMINISTRATION FOR SUSTAINABILITY IN THE FACE OF CHANGE'. THIS ALIGNS WITH THE SUSTAINABLE DEVELOPMENT GOALS (SDGS) GOAL 13.**

# PROGRAMS IMPLEMENTATION GOAL 13 CLIMATE ACTION

**The Environmental Engineering for Sustainable Development Program, Faculty of Science and Engineering, Kasetsart University Chalermphrakiat Sakon Nakhon Province Campus, recognizes the critical importance of conserving natural water resources, which play a vital role in ecosystems, local economies, and community well-being. This is especially true for Nong Han, a large freshwater lake that holds significant ecological and cultural value for Sakon Nakhon Province.**

The program has conducted knowledge-transfer activities on water quality management and aquatic ecosystem conservation targeting youth in communities surrounding Nong Han, as well as Kasetsart University students at the Chalermphrakiat Sakon Nakhon campus. Over 150 to 300 participants have engaged in this project, which aims to raise awareness about the impacts of water pollution and empower participants to take an active role in preventing and monitoring environmental issues in their local areas.

Participants have received education on maintaining water quality and pollution prevention, such as avoiding waste disposal into water bodies and proper waste management at the source. They have also undergone hands-on training in basic water quality measurements, including pH, turbidity, and dissolved oxygen levels. The data collected annually from these analyses have been used to evaluate the preliminary water quality index of Nong Han. Throughout the project period, the assessments have indicated that Nong Han's water quality ranges from "fair to good," a positive sign reflecting the effectiveness of community and academic involvement in water resource stewardship.

This project aligns with the United Nations Sustainable Development Goals, particularly SDG 14: Life Below Water, which focuses on conserving marine and freshwater ecosystems. It also connects to SDG 6: Clean Water and Sanitation, and SDG 13: Climate Action, through youth participation in environmental monitoring and local adaptation to water resource challenges. The collaboration between the university and local communities serves not only as an exemplary model of experiential learning outside the classroom but also represents a significant step toward cultivating environmentally responsible citizens who are ready to be key drivers of sustainable development at both local and national levels.



# PROGRAMS IMPLEMENTATION GOAL 13 CLIMATE ACTION

## Training Workshop on the Project “Revive The Mangrove Forest”

On February 26, 2025, the Digital Marketing and Branding Program, Faculty of Management Science, Kasetsart University Sriracha Campus, in collaboration with the Mangrove Conservation Learning Center in Khlong Tamru Subdistrict, Chonburi Province, organized the project “Revive The Mangrove Forest” to promote mangrove conservation and raise awareness about the importance of coastal ecosystems among local youth.

During the project, faculty members and students worked together to plant mangrove seedlings to restore the mangrove forest, while providing knowledge about the role of mangroves in preventing coastal erosion, supporting biodiversity, and maintaining ecological balance. Additionally, creative activities were conducted for students at Suta School, Bang Sai Subdistrict, Chonburi Province, such as poster campaigns and educational games about coastal ecosystems, to foster environmental awareness and encourage youth to participate in mangrove conservation. The message is passed on to future generations sustainably.

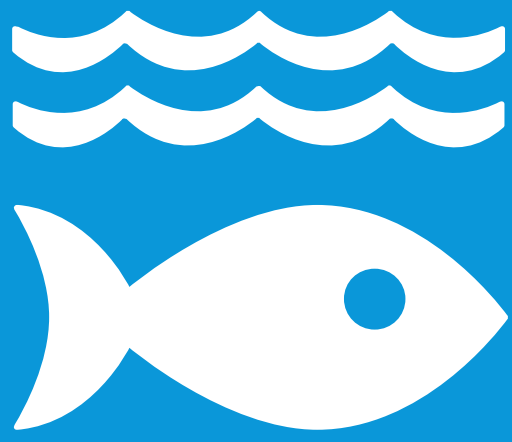


This project aligns with the United Nations Sustainable Development Goals (SDGs), particularly SDG 13 (Climate Action), by promoting climate change mitigation through the conservation of mangroves, which are vital natural carbon sinks; SDG 14 (Life Below Water), focusing on the sustainable use and conservation of marine and coastal ecosystems; and SDG 15 (Life on Land), supporting the restoration of terrestrial ecosystems.

The success of this project reflects the strong collaboration between the academic sector and the community, playing a crucial role in natural resource conservation to ensure a healthy environment is passed on to future generations sustainably.



**14** LIFE BELOW  
WATER



**CONSERVE AND SUSTAINABLY  
USE THE OCEANS, SEAS AND  
MARINE RESOURCES FOR  
SUSTAINABLE DEVELOPMENT.**

---

**THIS OBJECTIVE EMPHASIZES THE PROTECTION AND PREVENTION OF MARINE POLLUTION, AND THE RESTORATION OF MARINE AND OCEANIC ECOSYSTEMS, WHICH ARE CRUCIAL TO THE GLOBAL ENVIRONMENT. IT FOCUSES ON CONSERVING MARINE BIODIVERSITY AND SUSTAINABLY UTILIZING THE OCEANS AND THEIR RESOURCES. KASETSART UNIVERSITY HAS VARIOUS RESEARCH PROGRAMS THAT ALIGN WITH ITS VISION AND STRATEGY. STRATEGY 1 AIMS AT CREATING KNOWLEDGE FOR THE SUSTAINABLE DEVELOPMENT OF THE COUNTRY, AND STRATEGY 5 FOCUSES ON ENHANCING THE CAPABILITY OF RESOURCE MANAGEMENT AND ADMINISTRATION FOR SUSTAINABILITY AMIDST CHANGES. THESE ALIGN WITH THE SUSTAINABLE DEVELOPMENT GOALS (SDGS), SPECIFICALLY GOAL 14.**

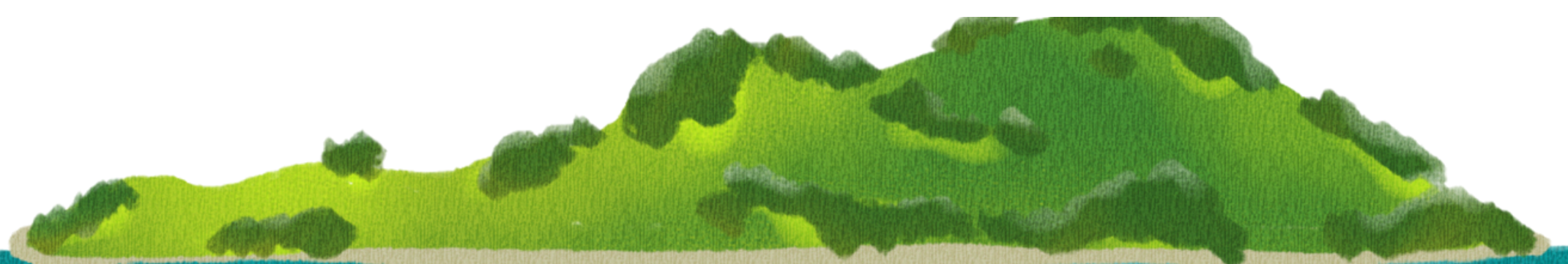
## PROGRAMS IMPLEMENTATION GOAL 14 LIFE BELOW WATER

### Project for the Development of Aquatic Nursery Areas along the Eastern Coast in Coastal Communities of Eastern Thailand

Personnel, students, and alumni from the Faculty of Science, Kasetsart University, Sriracha Campus, in collaboration with community relations officers from Thai Oil Public Company Limited, organized the Project for the Development of Aquatic Nursery Areas along the Eastern Coast (Artificial Reefs or “Sung”) at the Ban Ao Udom Model Fishing Group’s Blue Crab Bank, located in a coastal community of Eastern Thailand, on March 31, 2025.

The objectives of the project were to create new nursery habitats for marine animals as a replacement for natural coral reefs that have been damaged, and to promote knowledge and understanding among students, government and private sector personnel, and local fishing communities along the eastern coastline about the importance of marine ecosystems. The project also aimed to encourage community participation in marine resource conservation through proper, appropriate, and sustainable management practices.

Furthermore, the initiative sought to strengthen collaboration between the public sector (Kasetsart University, Sriracha Campus), the private sector (Thai Oil Public Company Limited), and local communities in planning and organizing ongoing activities to restore and sustain the marine ecosystem along the Eastern Coast of Thailand.



# PROGRAMS IMPLEMENTATION GOAL 14 LIFE BELOW WATER

## Developing Community-Based Ecotourism Potential

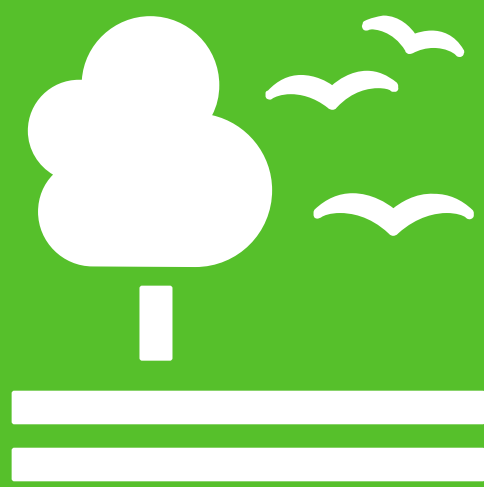
The Faculty of Economics at the Sriracha Campus of Kasetsart University organized the Community-Based Ecotourism Capacity Development Project. One of the activities was the “Two Hands, One Heart to Restore Nature” event, focusing on the conservation of coastal fisheries resources. Staff and students participated in releasing aquatic species at the Ban Ao Udom beach in Sriracha, Chonburi.

This project is part of a long-term initiative led by the Ban Ao Udom model fisheries group, which aims to preserve aquatic species amidst the increasing demand for seafood due to population growth in the Ao Udom and Laem Chabang areas. This activity aligns with the SDGs





**15** LIFE  
ON LAND



**PROTECT, RESTORE AND PROMOTE SUSTAINABLE USE OF TERRESTRIAL ECOSYSTEMS, SUSTAINABLY MANAGE FORESTS, COMBAT DESERTIFICATION, AND HALT AND REVERSE LAND DEGRADATION AND HALT BIODIVERSITY LOSS.**

---

**THIS OBJECTIVE EMPHASIZES THE PROTECTION, RESTORATION, AND SUSTAINABLE UTILIZATION OF FORESTS AND TERRESTRIAL RESOURCES, WHICH ARE CRUCIAL FOR FOOD SECURITY AND THE WORLD'S ECOLOGICAL SYSTEM. KASETSART UNIVERSITY HAS VARIOUS PROGRAMS AND RESEARCH PROJECTS ALIGNED WITH THIS VISION, AND STRATEGY POINT 1 WHICH IS ABOUT CREATING EARTH SCIENCES FOR SUSTAINABLE NATIONAL DEVELOPMENT, AND STRATEGY POINT 5 WHICH IS ABOUT ENHANCING THE CAPABILITY IN RESOURCE MANAGEMENT FOR SUSTAINABILITY AMIDST CHANGING CONDITIONS. THIS IS IN LINE WITH THE SUSTAINABLE DEVELOPMENT GOALS (SDGS) GOAL 15.**

# PROGRAMS IMPLEMENTATION GOAL 15 LIFE ON LAND

SDG 15 is the Life on Land Goal with the objective of protecting, restoring and promoting the sustainable use of terrestrial ecosystems. including sustainable forest management including the fight against desertification. Restoring degraded soil and stopping the loss of biodiversity

## Innovation of Krathong-leaf compactor



Banana leaf compression machine from Nongluck District Lekrungrangkit, deputy head of the Energy and Environmental Engineering Center, Faculty of Engineering, Kamphaeng Saen, Kasetsart University, which is used as a food container instead of plastic and foam. It is an innovation that is used to produce food packaging from natural materials, does not affect the health of consumers, helps to separate organic waste from municipal waste, and is easily reused.

Krathong compression machine can be used to extrusion containers of banana leaves and use heat to compress banana leaves or leaves into Krathongs for food packaging instead of foam and plastic. It can also help reduce environmental issues and reduce chemical contamination from food containers to foodstuffs. The leaf container press has evolved from the 1st generation banana leaf presses to the 2nd and 3rd generation banana leaf presses with two pressers to support the mass production of leaf cups.

# PROGRAMS IMPLEMENTATION GOAL 15 LIFE ON LAND

## Annual Development and Tree Planting Day 2025



Kasetsart University organized the Annual Development and Tree Planting Day 2025, a yearly event held continuously to increase green spaces and support the university's carbon neutrality policy. This initiative also aligns with the country's climate change mitigation policies.

The event brought together students, university staff, private sector representatives, local students, and community leaders who collectively planted over 10,000 trees. The purpose was to raise awareness among the local population about the importance of forest resources, fostering a sense of stewardship to restore and conserve nature for future generations, in line with the Sustainable Development Goals.

The tree species planted included 20 varieties, such as Ma Plub Thong (*Diospyros decandra*), Thep Tharo, Payom, Tak, Thung Fa, Takhian Thong, Intanin, and Nontree.

**16** PEACE, JUSTICE  
AND STRONG  
INSTITUTIONS



**PROMOTE PEACEFUL AND INCLUSIVE SOCIETIES FOR SUSTAINABLE DEVELOPMENT, PROVIDE ACCESS TO JUSTICE FOR ALL AND BUILD EFFECTIVE, ACCOUNTABLE AND INCLUSIVE INSTITUTIONS AT ALL LEVELS.**

---

**THIS GOAL EMPHASIZES THE CREATION OF PEACE, JUSTICE, AND STRONG INSTITUTIONS TO SUPPORT SUSTAINABLE DEVELOPMENT. KASETSART UNIVERSITY HAS VARIOUS RESEARCH PROJECTS THAT ALIGN WITH THIS VISION AND STRATEGY 1, WHICH AIMS TO HARNESS THE SCIENCES OF THE LAND FOR SUSTAINABLE NATIONAL DEVELOPMENT, AND STRATEGY 3, WHICH SEEKS TO ENHANCE THE QUALITY AND EFFICIENCY OF OPERATIONS BASED ON GOOD GOVERNANCE PRINCIPLES. THESE STRATEGIES ALIGN WITH THE SUSTAINABLE DEVELOPMENT GOALS (SDGS), SPECIFICALLY GOAL 16.**

# PROGRAMS IMPLEMENTATION GOAL 16 PEACE, JUSTICE AND STRONG INSTITUTIONS

## SOC KU Innovation 2025 Skill Development Project

Students of the Faculty of Social Sciences, Kasetsart University, organized a project to enhance skills in creating SOC innovations. The objectives are: to enhance skills in innovation development, teamwork skills for students of the Faculty of Social Sciences, and to practice making innovation development plans, presenting creative ideas on using information technology to create social innovations for sustainability.

Project participants can learn, plan innovation development, publicize innovations, promote the use of innovations and design for sustainability, and create social innovations.



# PROGRAMS IMPLEMENTATION GOAL 16 PEACE, JUSTICE AND STRONG INSTITUTIONS

## A review of the understanding of the local "hill tribe" houses in Thailand: a case study of the Mien houses in Phu Langka Village



When it comes to “hill tribe houses” or the traditional houses of highland ethnic groups in Thailand, the image often presented in research and media often reflects simplicity and coexistence with nature. But deeper down, these settlements and highland houses can also help reflect historical dimensions, culture, and political relations across ethnic groups.

Recent research on the houses of the Mien people in Phu Langka Village, Phayao Province, has revealed interesting new dimensions about the role of villages and houses as spaces that connect governance and social change in the past.

This review of the understanding of the vernacular houses of the "hill tribes" in Thailand, a case study of the houses of the Mien people in Phu Langka village, aims to study the history and factors affecting the house forms and settlements of the Mien people, using data from three important sources:

Documents from the National Archives

Anthropological survey report Memories of the Mien people who were born and raised in the area

The study's findings indicate that the Hmong houses are not merely residential structures, but also reflect the political relationship between the ethnic group and the state, as well as social circumstances such as the unrest during the Cold War, which significantly influenced their form and function.

Issues discovered

### 1. Political Dimension:

The study found that the use of the Hmong rulers' household space was not limited to agricultural or ritual activities, but also involved the village and the village networks in the highlands, and the relationship with the state's governance structure.

### 2. Social Impact:

During the Cold War, settlements and housing styles were dictated by limited resource constraints, leading to misconceptions and misunderstandings about the lifestyles and patterns of highland societies.

### 3. Local Memories:

Information from elderly residents of Phu Langka Village provides a profound picture of the rationale behind village planning and infrastructure management, and the inter-ethnic network of relationships.

This research not only helps fill gaps in our understanding of vernacular architecture, but also provides us with an opportunity to explore the complexities of Mien culture through the eyes of local people, an important step in preserving local wisdom.

# 17 PARTNERSHIPS FOR THE GOALS



**STRENGTHEN THE MEANS OF IMPLEMENTATION AND REVITALIZE THE GLOBAL PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT.**

---

**THIS GOAL FOCUSES ON FOSTERING INTERNATIONAL COOPERATION, PROMOTING COLLABORATION BETWEEN THE PUBLIC SECTOR, PRIVATE SECTOR, AND CIVIL SOCIETY TO ACHIEVE SUSTAINABLE DEVELOPMENT OBJECTIVES. KASETSART UNIVERSITY HAS VARIOUS RESEARCH PROJECTS IN LINE WITH THIS VISION AND STRATEGY 1, EMPHASIZING THE SCIENCES OF THE LAND FOR SUSTAINABLE NATIONAL DEVELOPMENT, STRATEGY 2, AIMING FOR ACADEMIC EXCELLENCE AT THE INTERNATIONAL LEVEL, STRATEGY 3, ENHANCING WORK QUALITY AND EFFICIENCY BASED ON GOOD GOVERNANCE, AND STRATEGY 5, BOOSTING THE CAPACITY IN RESOURCE MANAGEMENT FOR SUSTAINABILITY AMID CHANGING CONDITIONS. THESE STRATEGIES ALIGN WITH THE SUSTAINABLE DEVELOPMENT GOALS (SDGS), SPECIFICALLY GOAL 17.**

# PROGRAMS IMPLEMENTATION GOAL 17 PARTNERSHIPS FOR THE GOALS

## THE ACADEMIC CONFERENCE OF THE CAMBODIAN- THAILAND ALLIANCE FOR SUSTAINABLE DEVELOPMENT SYMPOSIUM



The Faculty of Management Science, Kasetsart University, participated in The Cambodian–Thailand Alliance for Sustainable Development Symposium, held from May 21 to 23, 2025, in Cambodia. The event was organized through a collaboration between the Royal Thai Embassy in Phnom Penh and the Royal University of Agriculture (RUA).

The academic conference aimed to promote cooperation on sustainable development between Thailand and Cambodia, with a focus on innovation, policy, and best practices in the fields of agriculture, food security, and environmental conservation.

Additionally, academic presentations were delivered at the KU–Cambodia Symposium, including a presentation titled: "Extracurricular Approaches to Sustainable Livestock Development in Wichian Buri District, Phetchabun, Thailand." Participation in this event marks a significant step for the Faculty in expanding international academic collaborations and fostering knowledge exchange on sustainable development within the ASEAN regional context.

# PROGRAMS IMPLEMENTATION GOAL 17 PARTNERSHIPS FOR THE GOALS

## COLLECT BOTTLES, SHARE WARMTH: MAKING BLANKETS FOR THE COLD-AFFECTED



“Collect Bottles, Unite Hearts to Share Warmth: Making Blankets for the Cold-Affected” The plastic bottles you have finished drinking can be transformed into warm blankets for those affected by the cold. Thirty-eight used PET plastic bottles equal one blanket, providing warmth to cold-affected individuals.

From plastic bottles to green blankets...the warmth you create is possible.

The Faculty of Science, Kasetsart University, in collaboration with the BringBack-Recycle project under the initiative to promote packaging management from the source for a sustainable society and environment, organized the activity “Collect Bottles, Unite Hearts to Share Warmth.” Everyone is invited to donate used PET plastic bottles to be processed and recycled into “Green Blankets” to be distributed to cold-affected individuals in the Northern and Northeastern regions.

# ADVISER

**Damrong Sripraram, Ph.D.**

**Ubon Thongpanya, Ph.D.**

**Piyawat Diloksumpun, Ph.D.**

**Prapern Kasemopas, M.A**

# EDITOR

Sornram Raksakul, B.Sc.

Kitisak Sepsirisuk, M.Sc.

Patcharin Jornjad, M.B.A.

Em-on Im-em, M.Sc.

Orawee Im-em, M.B.E.

Sutthinee Chantarachit, M.B.A.

Kanokon Ruckachart, B.B.A.

Mongkon Jornjad, B.B.A.

Noppon Srisamut, B.A.

Sittichaya Chidnok, B.A.

Punawatch Suthipattanarat, B.A.

Prakaidaw Thongphat, B.A.





KASETSART UNIVERSITY

มหาวิทยาลัยเกษตรศาสตร์