

2023 Pingtung County Voluntary Local Review



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Chapter 1 | Messages from County Magistrate

In 2015, the United Nations announced the 2030 Agenda for Sustainable Development Goals, which include 17 core goals, 169 targets, and 232 indicators to guide global efforts towards sustainability by 2030. The Paris Agreement adopted in 2015 introduced the concept of "net-zero" greenhouse gas emissions. This requires signatories to minimize their emissions from energy and non-energy sectors by 2050, and to achieve net-zero emissions by using carbon capture and forest as carbon sink. This is intended to prevent climate change from becoming an irreversible catastrophe. In recent years, many countries and cities have announced 2050 net-zero emissions goals and actions.

There is only one Earth and homeland. The Pingtung County Government promotes sustainable governance and public participation for the sustainable development of Earth, Taiwan, and Pingtung County. In 2021, the County Government published its first Voluntary Local Review (VLR) to assess the county's progress on

sustainable development indicators. In response to the Climate Change Response Act passed on February 15, 2023, the County Government established Pingtung County Low-Carbon Sustainable Development and Climate Change Response Initiative to coordinate and implement various sustainable development policies. This will allow Pingtung County to achieve a balance between the environment, society, and the economy in its efforts to develop the five major industries, including long-term care, technology, green energy, agricultural finance, and tourism.

Since I took office, I have listened attentively to people's voice and united their strength to take a proactive move towards the goal of a sustainable and hopeful city. In order to achieve sustainability for "a pleasant ecological environment with variety", "a prosperous, innovative and diversified economy", and "a peaceful, harmonious and inclusive society", we must do our best. To show how Pingtung will transform the value of net zero emissions into the growth momentum of "moving

forward as a hopeful city", the second VLR of Pingtung County was published in 2023. With a focus on sustainability and net zero, the report sets five major practical axes of carbon reduction, including "promoting energy saving in homes and businesses to move towards a low-carbon homeland", "transitioning to green manufacturing and diverse industries", "convenient low-carbon transportation and improving transportation systems", "developing renewable energy and strengthening self-sufficiency of electricity", and "increasing natural carbon sinks for a circular environment". The report displays the efforts of Pingtung County in reducing (capturing) carbon in the sectors of housing, commerce, transportation, energy, agriculture and forestry. For example, in the chapter "convenient low-carbon transportation and improving transportation systems", we have extended major transportation construction across the Gaoping River to the southernmost part of the country, and established a smart transportation platform to plan the new future of transportation.

There is no doubt that warmth will always connect up people's hearts. In light of the pledge of the United Nations SDGs to "leave no one behind", we have fully integrated SDGs policies and re-examined evaluation indicators, so that domestic and foreign people can understand them better. Although Pingtung's administrative resources are not as abundant as those of special municipalities, we are fully utilizing our administrative efficiency to integrate existing resources and exert the power of 1+1>2. We hope to work hard to squeeze into the ranks of advanced cities in the world. The 2023 VLR shares the progress and results of the County Government's promotion of SDGs, and further enhances public awareness of SDGs. In the future, it will be used as a guideline for moving towards a sustainable and net-zero city.



Chapter 2 | Introduction

On September 25, 2015, the United Nations (UN) issued the "Transforming Our World: The 2030 Agenda for Sustainable Development" on the occasion of its 70th anniversary. This agenda addressed the challenges all countries faced and identified three key issues in the spirit of equality and human rights, including

"economic development," "social progress," and "environmental protection." It proposed 17 Sustainable Development Goals (SDGs), which have become the common language and guiding principles for global sustainable development.

THE GLOBAL GOALS For Sustainable Development



United Nations Sustainable Development Goals

In order to move Pingtung forward and create a city of hope, the County's policies are aligned with the concept of the SDGs. In 2021, the County published its first VLR, demonstrating its commitment to sustainable development. The 2023 voluntary review report, featuring the main theme of "net-zero emissions", aligning to the core principle of "leaving no one behind" and definded

the aspects including "robust local aging care," "women power," "youth momentum," "inclusive community," and "international outreach." The County's sustainable development actions are focused on the following aspects :

Theme	Aspect	GOALS	Description
Net-zero emissions	Promoting energy efficiency in homes and businesses to move towards a low-carbon homeland		Motivate energy governance and build resilient cities based on local conditions.
	Transitioning to green manufacturing and diverse industries.		Expand the diversified upgrading and transitioning of industries, create a sustainable supply and demand balance mode.
	convenient low-carbon transportation and improving the transportation system.		Break through the key points of transportation to balance regional development, and move towards the era of smart transportation.
	Developing renewable energy and strengthening self-sufficiency in electricity		Make good use of natural resources, accelerate the development of green energy, and stabilize the supply of green electricity.
	Increasing natural carbon sinks for a circular environment.		Enhances reliability of agricultural productivity, create a sustainable livable city, and coexist with nature.
	Taking root in a sustainable homeland and promoting a net-zero lifestyle.		Call for net-zero awareness through education, and move towards the legalization of climate governance.
	Providing comprehensive care for all residents to create a safety and comfortable living environment in Pingtung.		Build a comprehensive care network, create equal access to health care, realize gender equality, and improve employment and entrepreneurship system.
Leaving no one behind	Cultural diversity and cultural inheritance		Integrate diverse ethnic groups, weave a rich society.
	Environmental justice and connecting with the world		Align with the trend of sustainable development, and open up the vision by international outreach.

Chapter 3 | Review



Moving towards Sustainability with New Perspective

Pingtung County is located at the southernmost part of Taiwan, with a unique geographical environment and vast territory. This creates a rich and diverse landscape of mountains and seas. In recent years, agriculture has continued to grow steadily and tourism has risen rapidly. However, the world is changing at a fast pace. Issues such as climate change, geographic isolation, and an aging population pose potential threats to the County. For example, Typhoon Morakot in 2009 devastated the county's beautiful homes and farmland. The County's longitudinal length of 112 kilometers has led to imbalances in regional transportation and medical resources. And the out-migration of young people has led to population loss and a shortage of labor in the industrial sector.

To achieve sustainable development true, which is "to keep ongoing momentum of development

without harming future generations' rights to survive and thrive," Pingtung County is committed to the spirit of "taking one step ahead" and spares no effort. After the disaster, we have adopted a sustainable mindset and learned to coexist with nature. We have also overcome geographical limitations and continued to improve infrastructure. We are also working on areas such as sustainable co-thriving with environment, industrial upgrading, and healthy living. We hope to create a happy and livable southern land in Pingtung with the most impressive hospitality.

Unfaltering Net-zero action

Increasing scientific evidence verified that anthropogenic climate change is a global issue, and negative impacts are urgent. It is a top priority for governments, multinational corporations, and local groups around the world. In 2015, Paris Agreement was signed at COP21 and a consensus on reducing greenhouse gas emission was reached. The goal is to limit global

warming to 1.5 degrees Celsius above pre-industrial levels. To prevent climate change becoming an irreversible disaster, countries have been making declarations and taking action to achieve net-zero emission by 2050. On February 15, 2023, Taiwan officially announced the Climate Change Response Act, which sets a long-term goal of net-zero greenhouse gas emission by 2050 to demonstrate our commitment to achieving the net-zero goal.

Towards a Sustainable and Net-zero Pingtung

Everyone plays a role on the journey towards sustainability and net-zero. Pingtung County will leverage its strengths, such as its integrated administrative organization, vibrant civil society organizations, and abundant natural resources to strengthen its overall implementation capabilities. For example, the County will use the "Pingtung County Low-carbon Sustainable Development and Climate Change Response Initiative" to

promote cross-departmental communication and vertical resource integration, and will work with community development associations, tribal youth organizations, and NGOs to jointly promote sustainable and net-zero actions. This will ensure that the city's transformation is not a one-man effort.

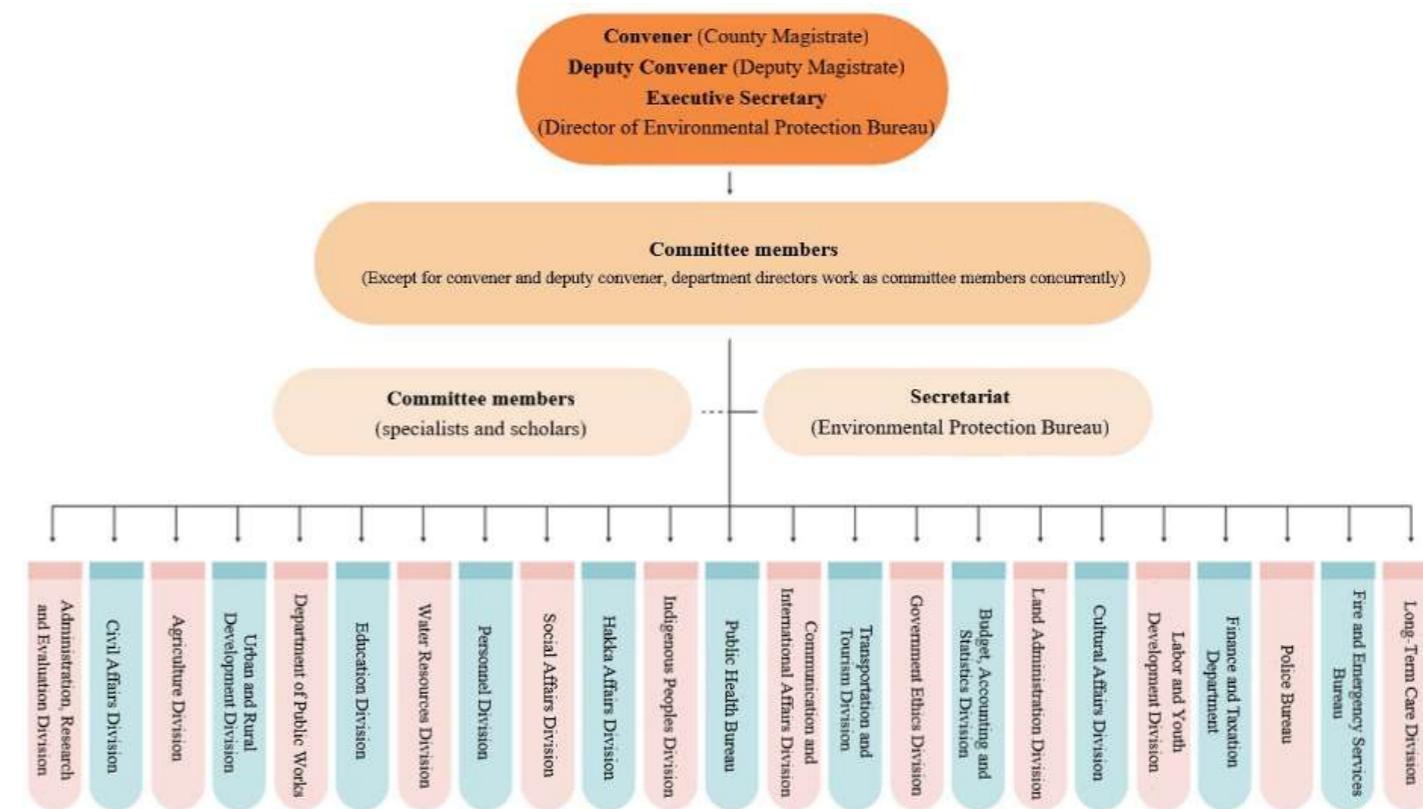
In order to leave the best home for the next generation, the County Government will also take on the responsibility and challenges of sustainable city management. It will transform its weaknesses and threats into opportunities. For example, the county will cooperate with the central government to strengthen local specialty industries and promote balanced development between urban and rural areas. It will also use its vast land to develop sustainable infrastructure, which will help to align land use with sustainable and net-zero goals. Gradually, Pingtung will be built into a city of hope with diverse values and cross-generational coexistence.



SWOT analysis of Pingtung County's efforts to achieve net-zero sustainability

Internal factors	
Strengths (S)	Weaknesses (W)
<ul style="list-style-type: none"> The Pingtung County government has a strong vertical integration and horizontal communication capability across its departments. The county has a vast land area and is surrounded by the sea. It has abundant natural resources, such as forest and ecosystems, which have high potential as carbon sink, such as green carbon and blue carbon. The average daily sunshine duration in the county is over 4.5 hours, which provides excellent conditions for the development of solar photovoltaics. The county has a well-developed grassroots organization that promotes low-carbon initiatives from the bottom up and encourages the public to implement net-zero and sustainable actions. The county proactively participates in various domestic and international sustainability assessments and adjusts its policy guidelines based on the assessment results. 	<ul style="list-style-type: none"> Due to its vast land area, elongated shape, and dispersed population distribution, the people are accustomed to using private vehicles, making it difficult to increase the use of public transportation. Many houses are detached, and some are old, making it difficult to promote new green buildings. Small and medium-sized enterprises are limited by capital, making it difficult to replace with low-carbon production equipment due to high cost. The central government's consolidated allocation of funds has been affected by the declining population, and the county's finances are classified as the fifth level, leading to insufficient own-source revenue.
External factors	
Opportunities (O)	Threats (T)
<ul style="list-style-type: none"> Geographic vastness and good natural resources can be used to challenge net zero through energy transformation and good infrastructure. Alignment with international organizations and cooperation with the central government to promote sustainable and net-zero actions. The increasing awareness of energy conservation and carbon reduction among the public, which is often combined with local industries and culture, to root the concept of sustainable and net zero at the grassroots level. Maintain unhindered communication and launch various promotional activities, seminars, and workshops to promote sustainable and net-zero strategies. 	<ul style="list-style-type: none"> Due to limited financial assistance from central government policies, local private resources need to be self-sufficient. Gradual aging of the population, with impacts such as weakened labor force supply, increased burden on working population, and inflated social security expenditure. The attractiveness of the mature industrial and commercial neighbor cities, Kaohsiung and Tainan, causing brain drain in Pingtung County. Industrial structure lacks variety, rendering it more vulnerable to uncertainties such as international political situation and epidemics. The narrow and long geographic characteristic and insufficient transportation infrastructure in the remote areas, which face limited educational and medical resources.

Structure of the Pingtung County Low-carbon Sustainable Development and Climate Change Response Initiative



Planning Pingtung's net-zero roadmap

Pingtung County's annual greenhouse gas emission per capita is around 5 to 6.3 tons of CO₂e, which is lower than the national average. However, the County still uses the "Pingtung County Low-carbon Sustainable Development and Climate Change Response Initiative" as a platform for annual research and coordination on climate change response planning.

In 2022, the County is in line with the national goal of net-zero emissions by 2050, the County set five major practical axes of carbon reduction: "promoting energy efficiency in homes and businesses to move towards a low-carbon homeland", "transitioning to green manufacturing

and diverse industries", "convenient low-carbon transportation and improving the transportation system", "developing renewable energy and strengthening self-sufficiency in electricity", "increasing natural carbon sinks for a circular environment".

The County promotes carbon reduction and carbon fixation in the sectors of housing, industry, transportation, energy, and agriculture and forestry. It also emphasizes lifestyle transformation, with the goal of "taking root in sustainable homeland and promoting net-zero lifestyle." The County is encouraging the public to change their behavior and attitudes to achieve 30% of carbon emission reduction by 2030 (relative to 2020 level), 65% of carbon emission reduction by 2040, and net-zero emission by 2050.

Chapter 4 | Method

Climate change is a challenge that the global communities face together. Countries have declared and taken actions to achieve net-zero emission by 2050. In response to the global net-zero trend, Taiwan announced the "Taiwan 2050 Net-Zero Emission Pathways and Strategies" in March, 2022. This plan outlines four major transformation strategies: energy, industry, lifestyle, and society. It also establishes two governance foundations: technology development and climate change legislation. The plan is promoted by the government, businesses, and civil society, including twelve key strategies to achieve net-zero emissions. In February, 2023, Taiwan passed the Climate Change Response Act, which legalizes the 2050 net-zero emissions target. The Act also elevates the level of climate governance, earmarks carbon tax revenue for specific purposes, and adds a chapter on climate change adaptation. These measures demonstrate Taiwan's commitment to achieving net-zero emission.

Pingtung County is committed to achieving net-zero greenhouse gas emission and has set six strategic pillars for achieving the goal, including energy efficiency in homes and businesses, industrial transformation, transportation decarbonization, renewable energy development, increasing carbon sinks, a net-zero lifestyle. The County will outline its strategy and results in this VLR.

More than half of the world's population live in cities. Cities will play a key role in achieving the SDGs. To strengthen local governance, improve efficiency, and respond to county government's performance with the SDGs, Pingtung County has developed a VLR framework. The framework is based on the principles and concepts of the SDGs, as well as UN guidance, international VLR practices, and county policies. The VLR framework is as follows.



Level 1: Pingtung County's Sustainable Development and Net-zero Vision

The County's sustainable development goals are aligned with its net-zero vision, which includes the following six pillars: "promoting energy efficiency in homes and businesses to move towards a low-carbon homeland", "transitioning to green manufacturing and diverse industry", "convenient low-carbon transportation and improving transportation system", "developing renewable energy and strengthening self-sufficiency in electricity", "increasing natural carbon sinks for a circular environment", "taking root in a sustainable homeland and promoting a net-zero lifestyle". The County has developed strategies to implement these pillars, which are aligned with the Sustainable Development Goals (SDGs).

In addition to net-zero action, "adaptation" is also a key theme in the global response to climate change. Therefore, the County has added adaptation highlights to SDG 13, which will be used as a guide for future climate actions.

Level 2: Pingtung County's Net-zero Priority Development

In response to the net-zero vision, the County has proposed six key aspects of implementation, including: "promoting energy efficiency in homes and businesses to move towards a low-carbon homeland", "convenient low-carbon transportation and improving the transportation system", "transitioning to green manufacturing and developing diverse industries", "developing renewable energy and strengthening self-sufficiency in electricity", "increasing natural carbon sinks for a circular environment", and "taking root in a sustainable homeland and promoting a net-zero lifestyle". These aspects are aligned with the Sustainable Development Goals (SDGs), including: "SDG 11: Sustainable cities and

communities", "SDG 13: Climate action", "SDG 9: Industry, innovation and infrastructure", "SDG 12: Responsible consumption and production", "SDG 7: Affordable and clean energy", "SDG 2: Zero hunger", "SDG 6: Clean water and sanitation", "SDG 14: Life below water", "SDG 15: Life on land", "SDG 4: Quality education", and "SDG 16: Peace, justice and strong institutions".

Level 3: Other SDG-related policies and evaluation indicators in Pingtung County

Due to the rapid aging of the population in Pingtung County, the demand for long-term care services has doubled. In order to improve long-term care for the elderly, the county has integrated the resources of various departments to effectively integrate medical and health, social welfare, and living care resources, and to realize the vision of robust local aging care (SDG 1, SDG 3).

The County has also upgraded its women's policies based on their needs and highlight gender equality by celebrating women's resilience and caring nature (SDG 5). In order to slow down population decline and revitalize the urban economy, the county has also proposed employment development policies to encourage young people to stay in Pingtung and raise the employment rate (SDG 8).

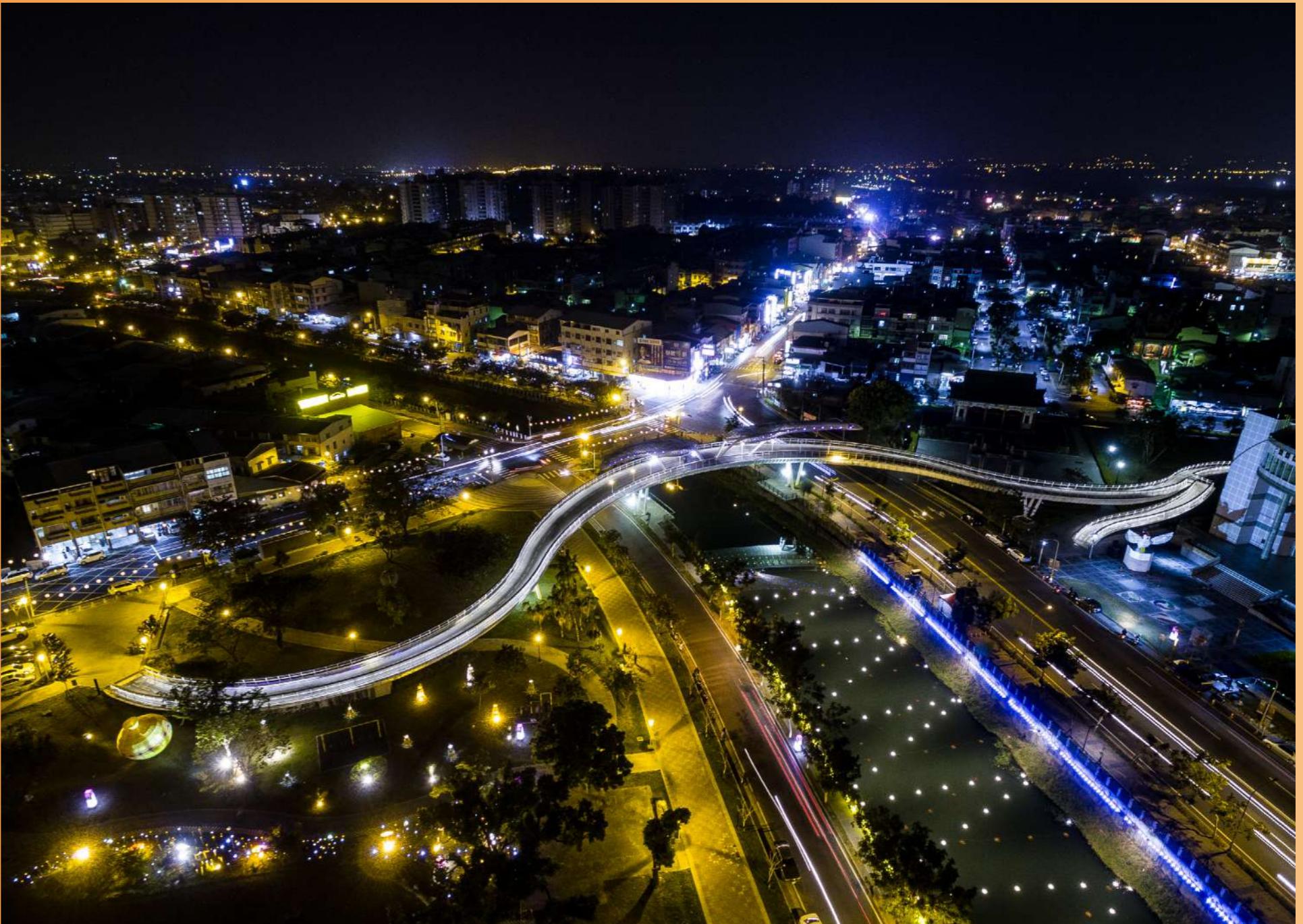
In response to the SDGs' spirit of "leaving no one behind," the County also practices the inclusion of diverse ethnic groups (SDG 10) and implements environmental justice and the alignment to international standards (SDG 17). These indicators have been incorporated into this report, which is linked to environmental protection plans, urban competitiveness indicators, and sustainability indicators. This has created the county's own strategic themes, strategic goals, and indicators.



Chapter 5 | Strategy and Action

Promoting energy efficiency in homes and businesses
to move towards a low-carbon homeland

Given that homes and businesses (including agricultural, forestry, fishery, and energy) are the largest sources of greenhouse gas emission in the County (over 32%), the County Government, businesses, and the people are all working to implement energy efficiency and energy conservation measures. In addition, to build a resilient city, the County is working hard to promote climate change adaptation measures to achieve "SDG 11 Sustainable Cities and Communities" and "SDG 13 Climate Action".



Pingtung is a livable place that blends urban and rural areas.
The night view of the Wannian River is breathtaking!

11
SUSTAINABLE CITIES
AND COMMUNITIES

13
CLIMATE
ACTION

THE GLOBAL GOALS
For Sustainable Development



Chapter 5 | Strategy and Action

Promoting energy efficiency in homes and businesses to move towards a low-carbon homeland



Specific Targets of the Current UN Sustainable Development Goals in the County

1. Residential and commercial (including agricultural, forestry, fishery, and animal husbandry) energy efficiency and energy conservation

(1) Energy auditing and energy conservation guidance for energy-heavy industries

In accordance with the Key Strategic Action Plan for Taiwan's Net-Zero Transition, the Pingtung County Government is promoting the reduction of greenhouse gas emission and the transition of power utilization in the residential and commercial sectors. The County Government has provided energy auditing and carbon footprint assessment reports to Chaozhou Station, National Pingtung University, Pingtung University of Technology, Pingtung Hospital, two Carrefour stores in the County, and the National Museum of Marine Biology and Aquarium. The County Government will continue to implement net-zero policies.

(2) Promoting energy conservation for agriculture, forestry, and fishery

Fishery and husbandry are important conventional industries in Pingtung County. In order to reduce the annual electricity consumption of these industries, the County government analyzed electricity usages to promote energy conservation ways.

For example, in the fishery sector, Pingtung County is home to the aquaculture of various high-value fish species. However, many fishermen still use traditional practice, relying on experience and water color to assess water quality. Extreme weather conditions have made aquaculture management more difficult. Traditional water wheels incur high electricity cost and yet cannot provide oxygen to deep water. Furthermore, they are easily damaged by salinity.

Therefore, the County Government has introduced modern technologies to traditional aquaculture farms. The County also introduced a set of energy-efficient water wheels developed by aquaculture industry of Linbian Township to Japan. In addition, the County government has collaborated with the Fisheries Agency to provide subsidies for the replacement of water wheels and refrigeration equipment in the County. These efforts have effectively reduced the electricity consumption of the fishery and livestock industries.

(3) Reducing fuel consumption of fishing vessels with the economic interests of fishermen in mind

In cooperation with the Fisheries Agency, the Pingtung County Government is promoting the "subsidies for fishing moratorium" program to encourage fishermen to concentrate their fishing activities during peak fishing season and take a rest during off-peak seasons to adjust their

annual fishing plans. This effectively reduces the amount of fuel used by fishing vessels and considers the temperate use of fishery resources and fishermen's welfare. In 2022, a total of 1,279 vessels applied for "subsidies for fishing moratorium" program.

2. Comprehensive energy conservation and carbon reduction measures for government agencies and schools

(1) Energy conservation measures for the Pingtung County Government and schools

To reduce carbon emissions from the public sector, the Pingtung County Government has prioritized the replacement of traditional lighting in public buildings and schools with LED lighting. The County Government also introduced energy management systems (EMS). For example, the County Government has replaced the lighting at labor recreation centers and replaced the traditional fluorescent tubes in the administrative building with LED tubes. Furthermore, the energy consumption of the lighting in some public area is reduced by using only row 1, 3, 5 or removing tubes, or adding motion sensors and timers. Some elevators and drinking fountains in the administrative building were disabled from 8 p.m. to 6 a.m. The Department of Education has also implemented a program to replace lighting and improve the lighting environment in remote schools. A total of 330 sets of lighting have been replaced, improving the lighting environment in classrooms, and enhancing the quality of learning. In addition, more than 4,400 campus energy management systems have been installed, effectively assisting schools to manage electricity use and energy conservation.

(2) The Pingtung County Environmental Protection Bureau: The first LEED Gold green building in Taiwan

To demonstrate the potential of energy-efficient buildings, the Pingtung County Government's Environmental Protection Bureau (EPB) began planning a new ecological building in 2018. The building was completed and started service in May 2021. From the architectural design to the interior space, the building is based on the principles of environmental protection, energy conservation, and circulation. It meets the nine major indicators of green building: "biodiversity", "greenery", "soil water content", "energy conservation", "carbon dioxide emissions reduction", "construction waste reduction", "indoor environment", "water conservation", "sewage and garbage improvement".

The EPB's new building is the first LEED Gold green building in Taiwan. The average annual electricity consumption of a typical office building in Taiwan is 125 kWh/(m².yr). The EPB's new building, on the other hand, consumes only 43 kWh/(m².yr), providing 65% reduction of energy consumption and at least 20% of energy savings.



The design of LEED Gold green building responses to Mount Dawu.

(3) Strengthening energy conservation guidance and inspection of service industries

In accordance with the "Regulations of Energy Conservation for Designated Energy Users," the Pingtung County Government conducted inspections and guidance for 20 types of electricity users, including hotels, department stores, restaurants,

and clothing retail stores. The inspections focused on three key elements of service industry energy conservation: (1) preventing cool air leakage, (2) ban on Halogen and incandescent bulbs, (3) limitation of indoor air conditioner temperature at 26° C. In 2023, the Government inspected a total of 46 enterprises. During the guidance process, the County Government also promoted "Appropriate Temperature of Air Conditioner 2623" issued by Energy Administration, Ministry of Economic Affairs.

(4) Calling for energy conservation awareness and building an energy conservation volunteer teams

To encourage people to develop good energy conservation habits, the Pingtung County Government plans a series of energy education promotion activities every year. From 2020 to 2023, there were a total of 6 events. For example, the County Government promoted energy conservation in conjunction with the 2022 Pingtung Kite Festival. Energy conservation volunteers served as masters, leading people to recognize energy-consuming appliances in daily life through prized-quizzes in the nine squares of the energy monster. The event attracted over one thousand participants.

The government also launched the "Turn off the Lights and Stargazing" activity based on the wide vision and low light pollution of the Hengchun Peninsula. This activity combines energy conservation awareness, stargazing education, and tourism, creating a local action for energy conservation and carbon reduction. To implement the belief that education should take root in communities, the County Government has held a total of three events since 2020.

Furthermore, the Government has also expanded the services and participation by connecting and training volunteers to promote energy conservation. Until September 30, 2023, there are a total of 82 energy conservation volunteers in Pingtung County. The

County Government also holds volunteer training and workshop sessions every year, including domestic and foreign energy conservation trends, volunteer experience sharing, daily energy conservation facts, interactive energy conservation games, and prized-quizzes. In addition, the County Government also explained the scope of the project, such as inspections and guidance for 20 designated energy users, community energy conservation, diagnosis, and guidance, and promoting educational activities, as well as the demonstration of energy conservation results of Pingtung County. Consequently, the volunteers can be more familiar with the County Government's energy conservation strategies. A total of 27 events have been held in the past three years.



Energy conservation education activities



Energy conservation and energy diagnosis for residential and commercial sectors and communities



1. Promoting insurance for agricultural and fishery products

In recent years, aquaculture and agriculture damages by natural disaster due to climate change are frequent. In response, the Pingtung County Government has re-evaluated the focus of compensation, and shifted to weather factors such as rainfall, wind speed, and temperature. This is to encourage businesses to improve their disaster prevention and loss prevention work on a regular basis. Insurance is a risk management tool to cope with the impacts of climate change. In 2017, the County government launched the first "Rainfall Parameter Aquaculture Insurance" in the Country. The insurance adopts "accumulated precipitation" as compensation criteria to protect rights of fishermen. In 2023, a total of 46 participants joined the insurance with a total of 34.87 hectares.

The County Government continues to cooperate with the central government to promote agricultural insurance policies to establish risk sharing concept, protecting more farmers and fishermen by enhancing disaster resilience. Currently, the County Government offers agricultural product insurance for lychee, jujube, papaya, and rice, etc. Based on previous experiences, the County Government launched red bean insurance in September 2022. This insurance, based on rainfall and compensation, will be paid to the farmers within specified time window, which shows the characteristics of inspection-free and quick compensation.

In July 2023, several typhoons passed through

and made landfall. The County Government immediately activated relevant data monitor. When lychee, jujube, and banana insurance met the compensation criteria, the compensation was paid to the farmers within the time window. This demonstrates the effectiveness of agricultural insurance in sharing risks and protecting farmers.

2. Disaster prevention and response

(1) Improving regional disaster prevention and response capabilities

In response to extreme climate, the Pingtung County Government has been working to improve its disaster preparedness. In July, 2011, Pingtung County Government established "Disaster Prevention Office". The office has completed the preparation of the "2021 Pingtung County Disaster Prevention Plan" to effectively implement major disaster response and post-disaster recovery. The office also planned 257 evacuation shelters and 3 disaster parks to accommodate residents during disasters.

In addition, the County Government promotes "Pingtung County Resilience Taiwan Large-Scale Typhoon and Earthquake Preparation and Cooperation Plan." This plan includes conducting table top exercise and field exercise, providing disaster prevention education and training county and townships for disaster prevention and response, and providing guidance to resilient communities and disaster preparedness volunteers to build robust resilience. Until 2023, there are 14 resilient communities and 822 disaster preparedness volunteers in the county.

In 2023, the County Government chose Neipu Township as a demonstration site to strengthen civilian awareness.

To implement disaster prevention and response supervision and evaluation mechanism, an inspection team has been formed by 12 departments, including the Bureau of Fire and Emergency Services, Department of Social Affairs, Water Resources Department, Department of Civil Affairs, and Police Bureau. The team jointly reviews the annual disaster prevention work of each township and provides suggestions to improve overall disaster prevention and response capabilities.



In response to disasters such as earthquakes, typhoons, and landslides, Pingtung County Government holds disaster prevention activities.



Neipu Township is chosen as a demonstration area for disaster resilience.



A forum with the topic of disaster prevention research and information integration experience

(2) Enhancing the public protection and response capabilities of nuclear accident areas in Pingtung County

The Third Nuclear Power Plant is located in Nanwan Village, Hengchun Township, and is the only nuclear power plant still in operation in Taiwan. To strengthen the nuclear accident response capabilities, the County Government completed the revised version of the "Pingtung County Nuclear Accident Area Public Protection and Response Plan" in 2019. The County Government also cooperates with the Nuclear Safety Commission, Executive Yuan, to hold annual nuclear safety exercises to strengthen the people's ability of self-evacuation and emergency responses.

In addition, the County Government conducts nuclear safety promotion work in townships within the emergency response area to share accurate nuclear safety, prevention and rescue knowledge. The County Government also established 18 nuclear accident disaster prevention communities to assist the public in own disaster prevention, reducing loss of lives and property.

(3) The first groundwater recharge lake in Taiwan - Dachaozhou Artificial Lake

In 2018, Pingtung County built the first underground water recharge lake in Taiwan, the Dachaozhou Artificial Lake. It is also the groundwater recharge lake with the largest area in Asia and the groundwater recharge lake with the largest recharge volume in the world. Until the end of 2022, Dachaozhou Artificial Lake has already recharged about 560 million tons of water into the underground aquifer. The County government keeps putting efforts on approval for the second phase project of Dachaozhou Artificial Lake with 250 hectares. When completed, the annual groundwater recharge volume is expected to increase by 0.15 billion tons. In the future, the County Government plans to connect the lake with the Linhou Silin Forest Park to create a tourism corridor and water resources education center to promote tourism development.



The Dachaozhou Artificial Lake, the largest recharge lake in Southeast Asia



Concept of water bank, creating an underground reservoir - Dachaozhou Artificial Lake

(4) Strengthening healthcare in indigenous areas and offshore islands

In collaboration with the central government, Pingtung County has built the only one offshore island rescue vessel in Taiwan, named the "Cihang." The vessel can withstand Beaufort wind scale 7 wind and waves and can still navigate in poor sea conditions, such as dense fog or without light. It provides comprehensive emergency medical transfer services, filling the medical gap in offshore islands, and serving an average of 250 people each year.

Pingtung County Government also established specialized clinics and equipment for telemedicine in indigenous and remote areas. In cooperation with Kaohsiung Chang Gung Memorial Hospital and Kaohsiung Medical University Hospital, the County Government provides ophthalmology, otolaryngology, and dermatology services to strengthen local healthcare capacity and served a total of 357 people in 2022.

In addition, the county has partnered with the Taiwan Liver Foundation, Kaohsiung Medical University Chung-Ho Memorial Hospital, and National Sun Yat-sen University College of Medicine to conduct a hepatitis C antibody screening campaign in Liuqiu Township. The campaign is the first in the nation to use finger-prick rapid testing. Patients are introduced to health centers for treatment, implementing a one-stop screening and treatment model for residents. The county hopes to achieve the goal of eliminating hepatitis C by 2025.



The only outlying island rescue boat in Taiwan, named the "Cihang"



Taiwan's first finger-prick rapid test for hepatitis C

(5) Improving disaster relief in remote areas by installing disaster prevention microgrid system

To improve the resilience of remote areas to face climate change, Pingtung County took the lead in Taiwan by proposing "blockchain of disaster prevention microgrid system." The County Government has installed 11 microgrids in remote areas. These microgrids are distributed power grids, which are not affected by the single nationwide grid, and allow remote areas to maintain external communications, night lighting, and the supply of basic medical supplies during disasters. They can also increase resilience in indigenous communities to face disasters.



Microgrids for disaster prevention in remote areas to avoid the island effect.

3. Building public disaster awareness and enhancing climate impact resilience

(1) Promoting adaptation strategies based on communities

The Pingtung County Government has introduced the concept of "Community-Based Adaptation to Climate Change (CBA)" and "Participatory Capacity and Vulnerabilities Analysis (PCVA)" to help communities understand climate threats and find their own solutions. From 2020 to 2022, the County government held six climate change adaptation strategy seminars. The County government also assisted 10 organizations in implementing adaptation projects based on local conditions to strengthen the disaster prevention and recovery capabilities of communities to face climate impacts.

(2) Promoting Disaster Resistant Communities for flooding

To reduce the risk in areas that are easily affected by flooding, Pingtung County has established 32 disaster resistant communities. These communities are linked to local governments and social resources to organize disaster exercises, strengthening disaster preparedness. The County also established the "Pingtung County Water Resources Volunteers" program, which provides regular training courses and on-site visits for volunteers. This program helps volunteers to learn professional disaster prevention knowledge, which enables them to keep track of real-time water information and report them to authorities. This promotes a unified public-private disaster prevention structure.

Places	Installed contents	Adaptation areas
Yusui Village, Jiuru Township	Green shade facilities	Health Agricultural production and biodiversity
Lili Village, Chunri Township		
Shizi Township	Automatic rain gauges	Disasters
Dawu Village, Wutai Township		
Majia Village, Maja Township	Lightning protection devices	
Sheliao Village, Checheng Township	Solar street lights and real-time water level monitoring system	
Xinjie Village, Checheng Township	Real-time water level monitoring system	Disasters Vital infrastructure
Xingan Village, Wandan Township	Water level monitoring meter	
Dongpian Village, Neipu Township	Water quality and water level monitoring meter	
Chishan Village, Wanluan Township	Pervious pavement and underground water tank	Vital infrastructure

4. Strengthening flood control and improving smart disaster prevention and flood early warning

In response to the environmental impact due to climate change, Pingtung County Government has built detention ponds and wetlands on farmland of Taiwan sugar cooperation or publicly owned lands. These infrastructures can store flood water, reduce flood peaks, mitigate the impact of floods, and sedimentation.

Furthermore, the County Government has also introduced internet technology for disaster prevention. In areas that are vulnerable for flooding during the rainy season, non-engineering measures have been implemented. Currently, the County has built 71 video monitoring stations, 43 water level stations, and 18 flood sensors to monitor and realize real-time water information of Pingtung County.

Pingtung County also has 15 large pumping stations and 151 mobile pumping machines. These infrastructures are prepared for flood



A flood control assistant of Pingtung County

control and improve the resilience for climate change to protect people's lives and property.

The County government also promotes the "Smart Water Management Industry Innovation Development Plan," which focuses on research and development of smart water management technologies and applications. The plan also uses AI chatbot technology to establish a disaster warning system. This system monitors and uses LINE to automatically send push notifications for disasters, including rainfall, water levels, flooding, landslides, and earthquakes. The system also provides easy access for searching water supply status, disasters, and other disaster prevention information.

In addition, the County Government has built an early warning system for important water drainage systems. This system automatically provides early warning information of river water levels for the next 1 to 3 hours to ensure timely evacuation and shelter. Currently, the early warning system covers 10 water drainage systems and 15 townships.



Large pumping stations and mobile pumping machines for flood control

5. The only one rescue team going to Turkiye for international humanitarian rescue from non-special municipality

In 2000, Pingtung County established the first special search and rescue team in Taiwan that combines search and rescue. In 2002, it was expanded to a special search and rescue corp. In December 2022, it became the fourth in the country to obtain "National Accreditation Process (NAP) Medium Search and Rescue Team Certificate". It is the first medium search and rescue team in the western county as non-special municipality to obtain the certificate. The rescue team not only demonstrates strong search and rescue capabilities in Taiwan, but also supported international humanitarian rescue missions such as earthquakes in Turkiye and Syria. The rescue

team endured and overcame time differences and difficult search and rescue environments as they demonstrated professional capabilities in rescue effort, showing the warmth and energy of Taiwan to the world. early warning system covers 10 water drainage systems and 15 townships.



Disaster relief without borders! Pingtung County's Rescue Team assisted in earthquake relief in Turkey



Former president Tsai Ing-wen had group photos with Pingtung County's Rescue Team



Chapter 5 | Strategy and Action

Transitioning to Green Manufacturing and Diverse Industries

As a key part of Technology Corridor in Southern Taiwan, Pingtung County is proactively developing technology and industrial parks. The County deepens collaboration with industrial, governmental, and academic players to help businesses implement carbon accounting, carbon footprint analysis, and low-carbon transition to improve competitiveness in global green market and follow the principles of circular economy to create win-win situations for economic development and environmental protection as a commitment to SDGs 9 “industry, innovation and infrastructure” and SDG 12 “responsible consumption and production”.



The Tropical Agriculture Special Industry Park will connect agricultural processing industries to become a "Southward Regional Agricultural Basement."



Chapter 5 | Strategy and Action

Transitioning to Green Manufacturing and Diverse Industries



1. Building a complete industrial chain to improve energy efficiency

(1) Energy Resource Integration in Pingnan Industrial Park

There are 17 kinds of industries in Pingnan Industrial Park, including food and feed manufacturing, pulp, paper, and paper products manufacturing, petroleum and coal products manufacturing, chemical raw materials/fertilizers/nitrogen compounds/plastic & rubber raw materials/synthetic fiber manufacturing. These industries require about 157,000 tons of steam annually. Enrestec Corporation, as a waste tire processing company, has established a steam supply center to provide steam to companies in the industrial park. In addition, there are 14 companies in the area that are qualified for handling and recycling waste, including Xinghong Environmental Protection and Yuyang Company. Having the wastes processed locally also reduces the carbon emissions and costs from waste transportation and handling. Therefore, the County Government and the industrial park management office are working together to start with energy resource integration and recycling

within the area to reuse waste resources continually.

(2) Water resource reuse in the Tropical Agriculture Industry Park

In 2023, the Tropical Agriculture Industry Park attracted food and feed manufacturing companies to set up factories. The factory area is about 14 hectares, with an average daily water consumption of 2,480 CMD. Wastewater from factories is collected by dedicated sewerage system and enters the public wastewater treatment plant. After being properly treated to meet the recycled water standards, the treated water can be used for watering trees, flushing toilets, and road sprinkling, etc., to achieve 100% water resource reuse. It is also planned to add a public wastewater treatment plant in 2024, which will increase the daily treatment capacity of industrial wastewater to 3,000 CMD.

(3) Developing technology industry and science park

Pingtung County Government and the private sector cooperated to build "Liukuicuo Industrial Park," which is the first industrial park with low-pollution, low-water-consumption, and low-

electricity-consumption. Liukuicuo Industrial Park started construction in December 2021, and will complete in 2024. It will provide spaces for approximately 31 companies, creating NT\$6 billion in annual output, and 900 job opportunities. The completion of the industrial chain is the most important task for this Industrial Park.

The construction of the Pingtung High Speed Rail Special Zone is important for the future development of the County. The expansion of the Pingtung Technology Industrial Park started construction on March 27, 2023, and public construction will complete in 2025. It is expected to increase annual production value by more than NT\$10 billion. The Pingtung Science Park has also started construction, and it will introduce innovative and cutting-edge industries, including smart agriculture and medicine, green materials, space technology, and other emerging technologies.

In response to the upcoming major construction, the County Government is simultaneously planning to connect the industrial parks with the surrounding greenbelts to create eco-friendly environment. It is also improving external transportation to attract more industries and talents to the area.

2. Gradually reducing industrial boiler pollutants and carbon emissions

From 2022 to July 2023, Pingtung County Government successfully negotiated with the Ministry of Economic Affairs for industrial boiler replacement program. The County government cooperated with the Pingnan Industrial Park Service Center, Shin Ping Gas Company to overcome local opposition and completed the installation of natural gas pipelines in the industrial park. A total of 13 factory visits were made to encourage the reduction of emissions from combustion sources, reducing 13.8 tons

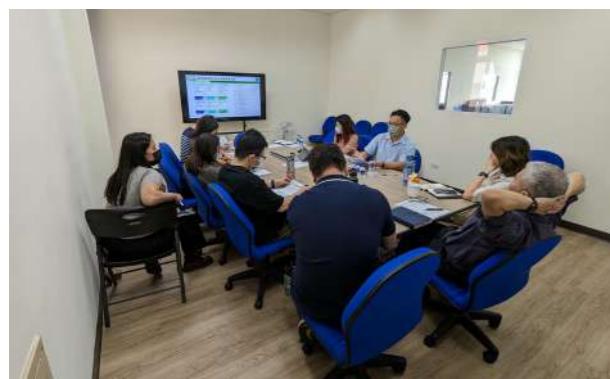
of particulates, 87.1 tons of sulfur oxides, and 37.8 tons of nitrogen oxides for a total of 138.7 tons, showing an increase of 183% from the 49 tons in 2021. In addition, the County Government negotiated with five major volatile organic compound (VOC) emission factories to reduce 20.4 tons of VOC emissions.

Through strengthening inspections of complaint cases, and cross-agency efforts to reduce emissions from combustion sources, Pingtung County Government reduced 7% of complaints cases and reduced 138.7 tons of pollutants in 2022. A public satisfaction survey found that 97% of respondents (3% higher when compared to those of 2021) never or rarely saw black smoke emissions. 205 boilers have been improved until July 2023, showing 14-fold increase when compared to those of 2017.

3. Assisting businesses to understand carbon emissions and participate in carbon reduction activities

After the announcement of the Climate Change Response Act, greenhouse gas (GHG) inventory has become a national-wide movement for businesses. Although Pingtung County has only one listed company, the Environmental Protection Bureau (EPB) still holds GHG inventory and carbon footprint application seminars every year. It also provides guidance to the top 40 carbon-emitting manufacturing companies in the County and service industries that want to understand their carbon emissions at least 10 company-enquiries a year. In addition, the EPB provides guidance and subsidies every year to estimate the GHG emissions for at least one "product" or "service" in its life cycle stages. Consequently, businesses can early respond to international carbon tariffs, such as Carbon Border Adjustment Mechanism (CBAM) and regulations of Ministry of Environment and the Financial Supervisory Commission.

In order to magnify the benefits, the County Government holds seminars on the key points of sustainable development and the Climate Change Response Act, GHG inventory regulations, voluntary reduction programs, and environmental impact assessment regulations (including offset). These seminars introduce the key points of the Climate Change Response Act, domestic and foreign carbon reduction, and carbon trading.



Greenhouse gas inventory guidance

4. Reusing Agricultural, fishery, and livestock waste

(1) Agricultural waste handling and resources recycling

With agriculture playing a prominent role in local economy, Pingtung County is a major source of agricultural waste. Farmers used to dispose agricultural waste by open burning, resulting in air pollution, public complaints, and killing the value of reusing. To reduce the environmental impact of agriculture, Pingtung County has implemented an innovative agricultural waste handling plan since 2017, including on-site crushing, transportation, the establishment of 13 temporary storage sites, eco-friendly farms, and on-site plowing and burying. Pingtung County Government also put up "Agricultural Waste Disposal Website" to reduce open burning. In 2022, the proper handling rate of agricultural waste for long-term crops reached 90%, and 98% for short-term crops, breaking the historical records.

In addition to transportation services, the County Government also promotes proper agricultural waste disposal to strengthen farmers' environmental awareness when visiting agricultural production and marketing groups. In addition, collected agricultural waste is processed through crushing, mixing, and pelletizing to be used for soil covering, compost additives, or renewable fuels. This not only promotes local economic growth, drives investment, and creates job opportunities, but also solves the problem of agricultural waste disposal, achieving the goal of circular economy and recycling, and a win-win situation for the economy and the environment.

Pingtung County provides farmers free recycling and reusing of wood waste (fruit tree branches) and waste agricultural plastic films by subsidizing farmers for the agricultural waste transportation service. In 2022, the amount of collected wood waste was over 3,300 tons. The wood waste was collected and transported to the Fangliao giant waste crushing plant for crushing and was free for reusing by public sectors, such as the Seventh River Management Branch, Southern Region Water Resources Branch, and the Nanzhou District Farmer's Association (about 172.6 tons). The crushed wood waste can be used for dust suppression on bare ground and composting. The amount of transported agricultural film was over 219 tons in 2022. The used agricultural films were sent to plastic factories for recycling as low-grade plastic. Furthermore, the used agricultural films were used by construction sites and gravel yards for covering bare ground to prevent flying dust, reducing air pollution and the amount of waste effectively.

(2) Recycling, handling, and reusing waste fishing nets

Marine debris has long been an issue. Abandoned fishing nets resulted from fishery impose threat to marine lives and their habitats, and affect the safety of navigating vessels. To protect marine ecosystem, Pingtung County continuously promotes a mechanism for recycling, handling,

and reusing waste fishing nets. The County Government also encourages fishermen to remove floats, weights, buoys, and other debris from waste nets, then pack them up and submit for incentives. A total of 8.9 tons of waste fishing nets were recycled in 2022. Pingtung County achieves resource circulation by source control, removal, recycling and reusing.

農廢集中好處理，交給專業的

好申請 我處理 請詢 【服務時間】每週一~每週五
專線 08:30-12:00 / 13:30-17:30

服務專線 08-7361441

免費代清運

提供屏東縣內農民農業廢棄物免費清運補助。

申請資格

- 申請對象：屏東縣內種植果樹農作物之農民。
- (一) 種植果樹的農地，且有實際種植情形。
- (二) 修剪後果樹產出之廢枝葉。
- (三) 屬整地、廢園性質者，以免費協助清運一車次為限。
- (四) 可收運農膜種類：覆土膠布、白網、黑水袋。
- (五) 限制清運標準：無法破碎之果樹枝葉，如竹子、檳榔、椰子等需裁剪至直徑10公分以下，長度150公分以下，符合標準才可清運。
- (六) 不可清運果樹總類：景觀樹、行道樹等非農業果樹不在申請範圍，紅龍果、仙人掌等不需經過破碎處理即會腐爛，故此類農業廢棄物不在收運範圍。

備註：詳細申請資訊以屏東縣農業廢棄物代清運管理準則為主

下載網址：<https://ysong.com.tw/WoodClear/Station/download.aspx>

屏東縣政府
屏東向前 希望城市

Promoting agricultural waste transportation and cleaning



Chapter 5 | Strategy and Action

Convenient low-carbon transportation and improving transportation systems

Pingtung County is a long and narrow county with a longitudinal length of 112 kilometers from north to south and a width of about 47 kilometers from east to west. To facilitate efficient transportation, Pingtung County Government calls for the construction of railways to help redefine the County's position, reduce the gap between urban and rural areas, and promote balanced regional development. In addition, the County Government connects the internal transportation network and shuttle services to improve the viability and completeness of public transportation. At the same time, the County Government drives the overall transportation transformation by technology, using low-carbon and shared vehicles to reduce utilization of private vehicles and the impacts of transportation activities to realize "SDG 11 Sustainable Cities and Communities".



First self-driving shuttle bus service in Taiwan's hilly forest park.

Chapter 5 | Strategy and Action

Convenient low-carbon transportation and improving transportation systems



Specific Targets of the Current UN Sustainable Development Goals in the County

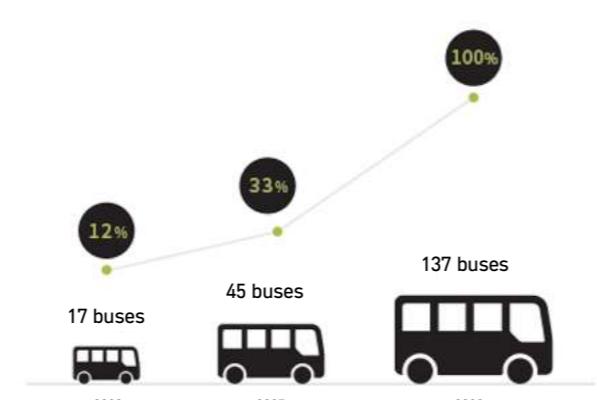
1. Gradually increase the proportion of electric vehicles of all types

To increase the proportion of electric buses, the Ministry of Transportation and Communications (MOTC) provides a subsidy of NT\$3,700,000 for each Class A bus, and an additional subsidy of NT\$1,500,000 for buses from approved manufacturers. To encourage business owners to accelerate the replacement process, Pingtung County Government provides an additional subsidy of NT\$750,000 for each bus with MOTC approval, and a subsidy of NT\$5 per kilometer mileage with a maximum of NT\$250,000 per year. There was a total of 7 electric buses at the end of 2022. The County will replace at least 15 diesel buses each year, achieving the goal of full electrification of urban buses by 2030 gradually.

The County government uses a strategy of "step-wise promotion" and "increasing subsidies as incentive," including press releases and information about subsidies for replacing old vehicles, to encourage people to use electric vehicles. Furthermore, the County government worked with Environmental Protection Bureau and the Department of Agriculture to promote voluntary replacement of fuel-powered cargo vehicles with electric vehicles at the Linluo Fruit and Vegetable Market. A total of 7 vehicles have been replaced. At the same time, the County Government also improves the vehicles which

do not fulfill exhaust standard in the market and achieved an improvement rate of 100%. CO₂ and PM₁₀ in the market have been reduced by 19.6% and 17.1%, respectively. These efforts have also been extended to the Jiuru Fruit and Vegetable Market, Fangliao Fishing Port, and the Donggang Fishery Association, which are major cargo transportation hubs.

After promoting and arranging for subsidies, the proportion of electric motorcycles registered in the air quality protection zone of Liuqiu Township has reached 9.1%, which is the highest administrative district among non-special municipality. As of August 31, 2023, there were a total of 20,162 registered electric vehicles, which increased 6.2-fold when compared to those of 2017. The proportion of registered electric vehicles has also reached 3.2%, which increased 5.2-fold when compared to those of 2017.



Replacement schedule and number of electric urban buses in Pingtung County



Promoting electric vehicles



Promotion poster for motorcycle replacement subsidies in Pingtung County

2. Planning electric vehicle charging stations and demonstration sites

To increase public willingness to use electric vehicles, Pingtung County plans to build fast and slow charging stations and electric vehicle parking spaces in "off-street parking lots and parking towers" and "street-side and outdoor parking spaces." This will increase the proportion and accessibility of charging facilities in public parking lots.

As of now, 31 electric vehicle charging piles have been installed in 7 parking lots in the county. In 2024, 30 more charging piles will be completed in the basement parking lot of Pingtung County Government and the Donggang Administration Center No. 2 parking tower.

Pingtung County aims to install 260 electric vehicle charging piles in public parking lots by 2025. This will gradually improve the charging infrastructure and make it more convenient for the public to use.

3. Gradually replace gasoline vehicles (including stage 1 to 3 heavy-duty diesel vehicles)

To reduce emissions from mobile sources, Pingtung County Government has implemented a variety of inspections and notifications. The government has also collaborated with the Ministry of the Environment (MOE) to promote the replacement of old motorcycles from stage 1 to 4 and large diesel vehicles from stage 1 to 3. Until August 31, 2023, a total of 85,062 old motorcycles and 1,449 large diesel vehicles have been replaced. The government will promote inspections in specific areas, independent management, air quality maintenance zones, regular inspections, heavy fines with frequent inspections, and various subsidy to accelerate the replacement of old locomotives and large diesel vehicles.



Inspections on the roadside

4. Expansion of Public Bicycle Stations (YouBike 2.0) and Zero-Emission Roads

(1) Promoting Public Bicycle Rental System

To reduce the use of fuel vehicles and their emissions, Pingtung County Government launched public bicycle rental service in 2014. The County keeps expanding the public bicycle network. In February 2023, the public bicycle system (Pbike) was upgraded to YouBike2.0. The system now covers the four major cities and towns of Pingtung County (Pingtung City, Chaozhou Township, Donggang Township, and Hengchuen Township). The County also launched a pilot program at three Taiwan Railway stations (Linluo Station, Sishih Station, and Zhutian Station) and national museum of marine biology & aquarium Station. The County Government plans to set up 130 stations, with a total of 2,700 parking piles and 1,200 public bicycles (including 900 YouBike2.0 and 300 YouBike2.0E).

As of the end of October 2023, the County had set up 112 YouBike stations, offering a total of 650,000 trips. For Tainan, Kaohsiung and Pingtung being considered as a living circle, bicycles from Tainan, Kaohsiung, and Pingtung can be borrowed and returned at different stations without paying cross-regional dispatch fee. This provides high-quality and upgraded public bicycle services.



Electric Bicycle named YouBike2.0E

(2) Building Rainbow Bicycle Road Network

To promote low-carbon tourism, Pingtung County started to build bicycle road network in 2015. The network connects tourist attractions in different townships with distinctive bicycle paths with rainbow colors as identification, including "Red line for National Highway System", "Orange line for Transverse System", "Yellow line for Coastal Blue Belt System", "Green line for Mountain Green Corridor System", "Blue line for Ailiao River, Gaoping River System, and Donggang River Waterside Blue Belt System", "Indigo line for Bicycle Railway System", "Purple line for Round-island System", "Wanchin Sugar Railway Bicycle Road", and "Dapeng Bay and Liuqiu Line".

The County currently has 10 bicycle road networks with a total length of approximately 632.78 kilometers. The County is expanding and optimizing existing routes in three aspects: "potential route exploration", "network construction", "maintenance and management of existing routes".



Blue Line/Bicycle Road along Dongguan River



Red Line/National Highway System



Blue Line/ Bicycle Road along Gaoping River

5. Construction of Intelligent Transportation Management System and Platform

(1) Developing Intelligent Transportation in the City's main trafficways

To improve public transportation services and provide users with more convenient and transparent real-time transportation information, Pingtung County Government built the first intelligent transportation center based in non-special municipality in 2022, with an intelligent transportation system (ITS) transportation information platform that collects transportation, ongoing construction, and bus information as the foundation for various application services. At the same time, the County Government has consolidated the road transportation system within the County by integrating the information from transfer stations with those of railways and highways, allowing the County Government to keep track of the overall traffic situation within the County at all times through big data and automatic analysis, and enhance the quality of travel services.

Given the insufficient transportation capacity in remote areas, the County Government has built a remote reservation and dispatch platform to provide residents in remote areas with transportation reservation and shuttle services. Until April 2023, over 25,000 Happiness Bus reservations have been made. The County Government has also developed the "Go to



Establishing the First Intelligent Transportation Center in non-special municipality

Pingtung and Have Fun" app, which integrates a variety of transportation and tourism data, such as attractions, accommodation, buses, YouBike, and parking lots. This allows tourists to obtain travel information from a single platform, improving the quality of their trips. As of the end of August, 2023, the app has been downloaded over 61,000 times. The County Government hopes to encourage people to make more use of public transportation services and reduce carbon emissions.

To provide drivers with real-time traffic diversion measures and parking space availability at Pingtung tourist attractions, the County Government has installed 9 dynamic information panels of Changeable Message Signs (CMS) on major thoroughfares in Pingtung City and its surrounding areas. These panels integrate information, including five cutting-edge parking towers, the intelligent transportation center, and the basic intelligent system transportation information platform, real-time information on parking space availability, traffic diversion measures, and event schedules.

In the future, the County government will continue to develop intelligent transportation with the following four axes: "useful open data," "smart transportation information," "warmhearted public transportation," and "friendly travel." These axes aim to improve basic transportation services for local people and promote the self-sufficiency

and sustainable operation of industrial chains. The County Government also aims to gradually enhance the intelligent capacity of transportation network and develop sustainable tourism in Pingtung County.



Monitor Traffic Conditions in Pingtung County

(2) Solving Traffic Problems by Intelligent Technology

To solve the problem of traffic congestion on Highway 26, the Pingtung County Government has built an "Intelligent Dynamic Traffic Signal Control System" on major corridors such as Highway 1, Highway 17, and Highway 26 since 2017. The system connects all traffic signals along the routes to the traffic control center for intelligent monitoring and management. It also uses automated real-time response to adjust traffic signal control, combined with arterial road traffic continuation strategy, as a practical substitute of mass police force deployment to relieve traffic congestion. Over the past four years, the system has been built over 70 kilometers, controlling more than 80 major intersections. The project was awarded the APAC BEST TECHNICAL PAPER Award at the 2021 Intelligent Transport Systems World Congress (ITS World Congress).

In 2022, the system was further expanded to include intersections north of Nanzhou Interchange along Highway 1, and the section of Highway 17, from the Shuidiliang Jianxing Five road branches to the Linbian Interchange. In September 2023, the system had connected

more than 170 intersections, making it the longest dynamic traffic signal control section in the Country, covering 110 kilometers approximately. A lane allocation system has also been installed on the northbound section of Highway 1 in the Fenggang section to improve traffic efficiency by saving 44% of traveling time, which is about 36 minutes.

The system is planned to be further developed in four aspects in the future: road network management system, human-centered traffic space, holiday traffic management, and data sharing applications. The goal is to create a smart, safe, and convenient traffic environment.



Construction of the Northbound Lane Allocation System in the Fenggang Section

6. Pursuing Equal Rights of Transportation in Remote Areas

(1) Promoting the Happiness Bus

To solve the problem of inconvenient public transportation in remote areas, Pingtung County Government has cooperated with Highway Bureau, Ministry of Transportation and Communications, the Kaohsiung-Pingtung-Penghu Regional Transportation Development Research Center, indigenous communities, and local township in remote areas to promote the Happiness Bus. Currently, there are 28 buses operating on 44 routes connecting nine indigenous townships, Fangshan Township, and Wanlun

Township. As of September 30, 2023, the service has been provided for 477,000 passengers.

On top of current arrangement, the County Government launched the "Happiness Bus 2.0" in Manzhou Township. This city bus service was operated by of a local business, which is the first case in the Country. Following this successful model, the County Government supported the Pingtung County Nanyu Mountain City Cooperative and the Pingtung County Ulaluz Labor Cooperative to establish city bus companies in December 2022. This was the first time that personal city bus company licenses were issued. In 2023, the County Government actively supported Dawu Community Development Association in Wutai Township to provide local transportation services to strengthen the transportation network.



Opening Ceremony of the Nanyue Mountain City Happiness Bus.

(2) Long-Term Care Transportation Services for Indigenous townships and Offshore Islands

To assist people in indigenous and remote areas in accessing medical care, long-term care, or other daily needs, Pingtung County Government has gained funding from Ministry of Health and Welfare to purchase 10 accessible vehicles. The County government has also hired local drivers who are familiar with the local languages to increase the willingness of people in remote areas to use the service.

Since 2022, the County Government has expanded

the service to cover all 33 townships, divided into three service areas based on geographic location. The service provides transportation for homebound and disabled people who need medical care, including rehabilitation and dialysis. The range of service is generally within the County, but the service for out-of-County hospitals is also provided.

Currently, there are 10 service providers cooperating with County Government, with a total of 106 transportation vehicles. Three of these vehicles serve the offshore island (Liuqui), with 100% coverage rate.

7. Improving the Age-friendly Transportation System

(1) Promoting Friendly Vehicles

To provide accessible transportation for disabled people or elderly people, Pingtung County Government has been actively supervising transport providers to increase the number of conventional or electric accessible buses. The current coverage of accessible bus is 86.67%.

In 2022, the County Government contracted Pingtung Bus Company to operate a large accessible bus rental service. The bus has six wheelchair docking seats and 23 general seats, and can be rented by government agencies, registered disability groups or welfare organizations to hold events for the disabled.



Large barrier-free bus

As of the end of September 2023, the bus has completed 46 trips, serving 323 disabled people and 770 co-travelers.

The County Government is also supervising city bus businesses to replace their vehicles with accessible buses, and assessing the effectiveness of the large accessible bus rental service to decide whether to expand the fleet.

(2) Expanding Transportation Services to Remote Villages by Shuttle Taxi

To improve public transportation in remote areas, Pingtung County Government has actively developed shuttle taxi routes since 2018. As of June 2023, there have been a total of 19 routes, covering 14 townships, including Pingtung City, Chaozhou Township, Wanlun Township, Donggang Township, Hengchun Township, and Checheng Township. The total number of passengers has exceeded 100,000 people.

In 2023, the service area was expanded to nine more townships: Jiuru Township, Ligang Township, Gaoshu Township, Yenpu Township, Linluo Township, Kanding Township, Jiadong Township, and Fangliao Township. A total of 14 new routes were started in stages. Two routes in Jiuru Township were started in June 2023, and two pre-order routes in Ligang Township were opened on September 18, 2023. The remaining routes are scheduled to be started before February 2024, providing the people with convenient, safe, and heartfelt transportation services.



Expanding shuttle taxi services

(3) Building Convenient Public Transportation Services

To improve the convenience of public transportation, Pingtung County Government is building a public transportation network based on "regional transfer centers" and "classified bus routes." As of now, four transfer centers have been established, including Pingtung, Chaozhou, Shuimen, and Donggang (scheduled to be completed in December 2023). These transfer centers provide comfortable and consummate waiting environment and transfer services for the people. The bus network also provides a variety of shuttle services, including express line, main line, branch line, tourist line, regional shuttle, and demand-based services. The County Government will continue to review and adjust bus operating routes, headways, and timetables to meet the public needs and increase usage rate. The government also plans to complete the construction of the Kenting, Hengchun, and Fangliao transfer centers by 2030.

(4) Improving Quality of Waiting Areas

To improve the quality of waiting environments for the public, the Pingtung County Government launched the "Optimization of Classified Bus Network and Development of Waiting Transfer Indicators Information" project in 2019. The project proposed six color-coded main lines, including Ligang Main Line, Wandan Main Line, Yenpu Main Line, Shuimen Main Line, Neipu Main Line, and Hengchun Main Line. The project aims to make it easier for the people to use public transportation by improving the waiting interface, integrating the vehicle identification system, and optimizing the schedule.

Meanwhile, the County Government is also improving bus shelters. Artists are invited to design different styles of waiting areas based on the regional characteristics and cultural features. Each station is also linked to a QR code as an electronic travel map, creating public art featuring



The First Indigenous Community Transfer Station in Taiwan: Shuimen Transfer Station

local styles and serving as city highlights to add some fun for the waiting time.

As of the end of 2022, the project has completed the construction of the Ligang and Wandan Main Lines, as well as the renovation of 14 art bus shelters located in Pingtung City, the Highway along mountains, Donggang, and the Hengchun Peninsula. The County Government will continue to build 839 concentrated station boards on the Yenpu, Shuimen, and Neipu Main Lines, and will have on-site survey to discuss the installation of bus shelters in other townships.

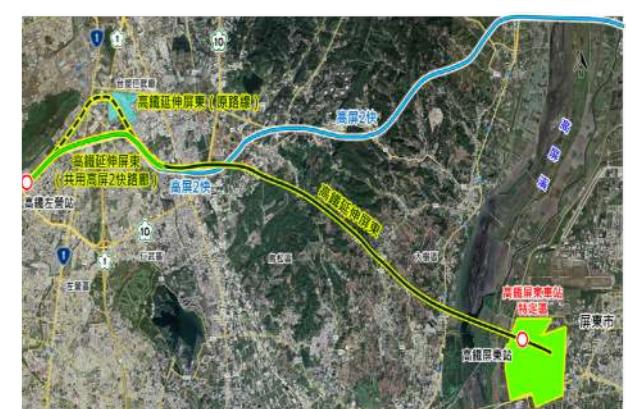
8. Pursuing Equal Rights of Transportation in Remote Areas

(1) HSR Extension to Pingtung

Under the vision of developing a high-speed/fast rail network around Taiwan with "High speed rail in the west and fast rail in the east," Pingtung County Government strives for expanding the coverage of high-speed rail services to Pingtung County. This will bring Pingtung into the daily living sphere of the western corridor, satisfying the long-distance travel needs of both County

residents and people from other administrative regions, and promoting the development of the high-speed rail network.

The current route plan for the HSR extension to Pingtung is to start from the HSR Zuoying Station, pass through the Renwu and Dashu districts of Kaohsiung, and end at the Liukuaicuo Farm in Pingtung. The total length of the route is approximately 17.6 kilometers. The total construction period is approximately nine years after the comprehensive plan is approved. This project will be an important foundation for balancing regional development in Taiwan.



Schematic Diagram of the HSR Extension to Pingtung



Schematic Diagram of the Kaohsiung-Pingtung Expressway 2

(2) Building the Kaohsiung-Pingtung Metropolitan Area

Kaohsiung and Pingtung are neighboring cities with frequent travels, and are known as the "Kaohsiung-Pingtung Metropolitan Area." However, there is only one east-west expressway, Highway 88, connecting the two cities. This expressway is often congested. To solve the transportation problems in the Kaohsiung-Pingtung Metropolitan Area, Pingtung County Government rigorously requested support from central government for constructing "the second east-west expressway between Kaohsiung and Pingtung", as well as "extension of the Kaohsiung MRT to Pingtung".

The second east-west expressway between Kaohsiung and Pingtung is currently in the second phase of environmental evaluation. It will improve the road network in northern Pingtung, and relieve congestion on Highway 1. Furthermore, it connects Agricultural Technology Park and National Freeway 3, increasing overall transportation efficiency. In addition, Ministry of Transportation and Communications approved the "Planning Results of Kaohsiung MRT Extension to Pingtung" in July 2021, prioritizing the extension of the Red Line to Linyuan, Donggang, and Linbian. This will eventually shift users of private vehicles to public transportation to achieve energy conservation, carbon reduction, and economic development potential in the region.

(3) Tourist Railway in Hengchun

To promote the development of a green tourism model in the Hengchun area, Pingtung County Government is planning a tourist railway system to connect tourism attraction in southern Pingtung which is safe, reliable, comfortable, energy-efficient, and low-carbon. The total length of the railway is approximately 37.9 kilometers. This will help to balance the development of tourism in the Hengchun area with environmental sustainability.

The feasibility study report for Hengchun Tourist Railway is currently revised by Railway Bureau, Ministry of Transportation and Communication in conjunction with the overall Pingtung railway and highway network.

(4) Taiwan Railway: Chaozhou-Fangliao Elevated Double-Track

To eliminate the imbalance in regional development on both sides of the level crossings, and to assist the surrounding townships in repositioning and transforming their development, Pingtung County Government has set a long-term policy goal of "elevating the entire Chaozhou-Fangliao section of the Taiwan Railway." The first step will be to elevate Fangliao railway station, because it is the initial station of the Taiwan Railway South-Link Line and the Pingtung Line, and is also an important station of Hengchun Tourist Railway. The elevation of the station will improve traffic safety and the efficiency

of the South-Link Line, creating a high-efficiency round-island railway network and a daily living sphere. It will also promote tourism and improve the quality of life in the local area.

The feasibility study report for the "South-Link Line Remodeling Improvement and Bottleneck Section

"Double-Tracking" project, which involves the elevation of the Chaozhou-Fangliao section of the railway, is currently being reviewed by Ministry of Transportation and Communications.



Increasing Happiness Bus in Laiyi Township improves public transportation in rural areas.



Chapter 5 | Strategy and Action

Developing renewable energy and strengthening self-sufficiency of electricity

Located at the southern tip of Taiwan, Pingtung County has long insolation duration, making it ideal for solar photovoltaic (PV) development. To make good use of its natural resources, the County government began with the "Water-Saving and Power-Generating" policy, making full use of non-agricultural areas, livestock sheds, detention ponds, embankments, and landfills to promote a variety of PV projects. This has created a friendly environment for developing renewable energy, and Pingtung achieved a milestone as the first County in Taiwan to achieve "100% renewable electricity for domestic use" (RE100) in August 2022, which fulfills Sustainable Development Goal 7 (SDG 7) "affordable and clean energy."



"Turning Barren Land into Green Energy" - First in Taiwan, Largest in the World!
Pingtung Achieves 100% Renewable Energy for Domestic Use



Chapter 5 | Strategy and Action

Developing renewable energy and strengthening self-sufficiency of electricity



1. Strengthening the Reuse of Agricultural and Livestock Biogas

(1) Power Generation by Livestock Farm Biogas

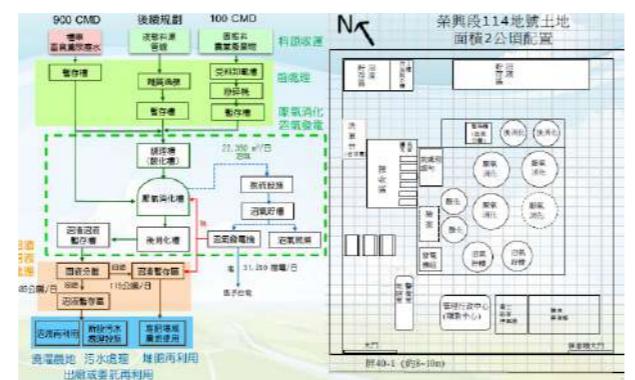
Pingtung County is a major county of husbandry activities, with a total of 1,394 pig farms and 1.15 million pigs as of November 2022. Among them, there are 478 small farms with fewer than 200 pigs, resulting in environmental pollution, which is one of the difficult issues in Pingtung County.

Pig manure contains rich organic matter and can be reused for economic benefit and greenhouse gas emission reduction. To make good use of the resources with livestock industry, the County Government holds educational and promotional seminars every year and provides on-site guidance or assistance to improve biogas power generation at livestock farms. As of 2023, the County has subsidized 21 livestock farms to install biogas power generation facilities. These facilities generate 5 million kilowatt-hours of electricity and reduce 120,000 tons of CO₂e each year, increasing farmers' income by NT\$25.92 million. This helps to ensure pig husbandry with environmentally friendly and economically sustainable development.

(2) Pingtung Biomass Center BTO (Build-Transfer-Operate)

To address the environmental pollution caused by small-scale livestock farms in the Donggang River basin, the County Government has proposed

the "Pingtung Biomass Center BTO (Pingtung County Linluo River Comprehensive Environmental Improvement Agricultural Biomass Reuse Center Build-Transfer-Operate Project)". The project aims to achieve the goal of waste reuse through biogas power generation. The preliminary assessment of feasibility and other pre-construction work have been completed. The County Government puts efforts to find investors and raise funds based on Act for Promotion of Private Participation in Infrastructure Projects. In Donggang River basin, it is expected to treat wastewater pollutants resulted from 28% of pigs after the project is completed, reducing 21,595 kg of organic pollutants in wastewater every day. The biogas power generation complex is expected to provide 31,200 kilowatt-hours per day. This will create a triple-win situation for County Government, livestock industry, and the people by preventing environmental pollution, improving environmental quality, and developing renewable energy.



Process of Pingtung Biomass Center

2. Development of Renewable Energy to Achieve the Target of 100% Green Power for Domestic Use

In 2016, Pingtung County Government joined the "100% Renewables Cities and Regions" of Local Governments for Sustainability (ICLEI) to set a goal of "100% green power for domestic use" to lead the national energy transition policy. The County Government set a target of 1 GW of renewable energy based on the annual household electricity consumption, and the amount of solar radiation in global solar photovoltaic open database, "Global Solar Atlas," established by the World Bank.

As a county of major agricultural activities, Pingtung County does not have the same innate conditions as other counties, such as the Changhua coastal industrial zone, Cigu salt flats, and Yizhu aquaculture area, with large public idle lands or existing idle industrial parks which can be converted to into solar photovoltaic facilities. In order to maintain the existing agricultural productivity and ensure food security, the County Government prioritizes non-arable land for solar photovoltaic facilities when selecting project sites to achieve the goal of land revitalization. The County Government has also developed two major principles, "specific zones" and "multi-function land use", to promote the "severe subsidence area for solar photovoltaic project" and the "Gaoshou photovoltaic demonstration zone". Another strategy is to install solar energy without affecting the original function of the facilities, for example, "the first floating solar power in Taiwan at the Dawuding detention pond and the Dasiangying embankment", PV panels on the dike, the landfill, and the covered court at schools, roofs of parking lots, to revitalize public idle space and make effective use of land. As of August 2023, installed capacity of renewable energy has reached 1.2 GW.

3. Renewable Energy Innovation

(1) The First Renewable Energy Database in Taiwan, Combined with Cloud-Based Tools to Improve On-site Management Efficiency

Suitable land and abundant feeder lines are two major challenges in the selection of sites for solar photovoltaic (PV) projects in Pingtung. The County Government used geographic information systems (GIS) to integrate information of land, land registry, substations, and transmission and distribution line from multiple departments to establish the first renewable energy database in Taiwan. Using the concept of "finding lands based on existing transmission network," the County Government established information on matching suitable land and abundant feeder lines as the basis for non-arable land selection and improving feeder lines in Gaoshou Township with illegal mining, and severely land subsidence areas with restricted groundwater access. It effectively integrates land and transmission and distribution line information, and accurately plans and evaluates potential projects. In the future, it can be combined with Google Map, allowing County Government staff to remotely view project site distributions through smartphones or tablets to improve the efficiency of on-site inspections and construction management.



The First Renewable Energy Database in Taiwan

(2) Solar Power Project in Severe Subsidence Areas

In 2019, Pingtung County launched the "Solar Power Project in Severe Subsidence Areas". There are four townships, including Donggang, Linbian, Jiadong, and Fangliao, were listed as severe subsidence areas by the Water Resources Agency due to groundwater over-pumping. These townships are within the first and second level groundwater control zones. The County Government respects the willingness of private landowners and prioritizes the use of relatively non-arable land based on the limitation of existing power infrastructure capacity to develop green energy. This provides landowners and farmers with a new model for land use.

The County Government used economic incentives, such as reducing administrative fees and accelerating administrative procedures, to attract investment from companies. The County Government selected companies with strong construction capabilities and served as a platform to protect landowners' rights by administrative contracts. This made landowners voluntarily rent their land to participate in solar power construction. This approach revitalizes land utilization, facilitates energy transition and solves the problems of rural aging and underground water restriction.



Solar Power Projects in Severe Subsidence Areas - Jiadong Township

In order to strengthen the procedures and scale of solar power project in severe subsidence areas and to prevent substandard companies from harming public interests by unscrupulous means, companies are required to establish a trust account with landowners based on administrative contract to protect farmer and landowner rights. After the end of 20-year feed-in tariff, the income will be gradually reduced and will no longer be as attractive as it was. At that time, companies may not renew their contracts with landowners. For any costs caused by transferring or removing the project site, the deposit in the trust account can be used to restore the land as farmland.

As of June, 2023, six booster stations have been completed and nearly 227 MW have been connected to the grid. This project also led companies to build their own booster substations. By connecting sites to the booster stations and transmission lines, transmission loss and feeder lines can be reduced and the grid connection rights of small PV projects can be protected. Companies will also cooperate with the Tai-Power Company's transmission line routes to concentrate solar power on neighboring lands. This will improve the economic efficiency of the projects and avoid land fragmentation.



Solar Power Projects in Severe Subsidence Areas - Linbian Township

(3) Rebirth and Transformation of Badlands: Gaoshu Photovoltaic Green Demonstration Zone

Gaoshou Township in Pingtung County is surrounded by three rivers and has good sandstone geology. In the past, sand and gravel was exploited by unscrupulous companies, resulting in large pits several meters deep, which affected the local environment and safety. To solve the problem, the County Government and the National Property Administration worked together to use earthwork from the dredging of Water Resources Agency, Ministry of Economic Affairs, to backfill the pits in five years. However, the backfilled land is unsuitable as farmlands due to poor fertility and a lack of water supply infrastructure in surrounding areas. As a result, the land was idle and barren. Furthermore, it is in remote area and difficult to be managed, which faces the problem of illegal waste dumping.

In order to revitalize the idle land, the "Gaoshou Photovoltaic Demonstration Plan" was launched in 2016. The County government selected 112 locations, with approximately 37 hectares, as solar PV sites. Through open tender and "zero-budget model" with economic incentives for companies and zero government investment, the County government created the first demonstration zone in Taiwan to transform refilled illegally mined sand pits into green energy.

Since this project had no precedent and was launched during the early stages of the national energy transition policy, it faced the problem of insufficient feeder lines during construction. The County Government, Energy Administration, Ministry of Economic Affairs, and Tai-Power Company held multiple rounds of coordination to enable the photovoltaic facilities to connect to the grid and generate electricity smoothly. It was concluded that the operator (investor) shall construct its own booster station and part of the power facilities, and then have Taipower build a transmission tower across Laonong

River to integrate the transmission line to Ligang Township over a long distance, making it the first renewable energy project in Taiwan to be grid-integrated over a long distance across a river.

With the cooperation of the County Government, the operator, and the National Property Administration, the installed capacity of the project reached 41MW by the end of December 2021, and generates approximately 50.75 million kilowatt-hours of electricity per year. This is enough to supply electricity for approximately 9,100 households in Gaoshu Township. The project has also signed a green power procurement agreement with the TOPCO Scientific co., Ltd, which will provide 250 million kilowatt-hours of green power over the next decade to meet the demand of domestic businesses and enhance their international competitiveness.

4. Government Departments Replicate the "Zero-Budget" Model to Integrate Green Energy into Idle Public Facilities

The Green Energy Office of Pingtung County led the implementation of "specific zones" and established contract template for open tender and procedures for all departments to follow. This helped to promote the use of solar power by the County Government. The County Government cooperates with various departments and townships with the bottom-up approach, using the zero-budget model to revitalize idle public property, increase self-generated revenue, and reduce public expenditure. In addition, the County Government has incorporated renewable energy into idle spaces without affecting the original functions of the facilities, including the first floating solar power in Taiwan at the Dawuding detention pond and the Dasiangying embankment", PV panels on the dike, the landfill, and the covered sport courts in schools. At least 13 departments have participated in the promotion of more than 20 types of solar power facilities. Department

of Civil Affairs, Pingtung County Government, relocated cemetery and converted the site to "Beixing PV Inclusive Sports Park" through zero budget model in 2022. The sports park combines a solar-powered sports field, family-friendly spaces and solar-powered parking lots for cars and motorcycles to provide a park with green spaces that meets the needs of citizens.

5. Gathering Experience in Promoting Green Energy and Sustainability, Publishing the Book "Pingtung Answers with Proofs"

In recent years, Pingtung County Government has proactively developed green energy, and announced that the total installed capacity of renewable energy in the county had reached 1 GW in 2022, making it the first county in Taiwan to be able to provide 100% of green energy to

meet civilian needs. Looking back on the past, Pingtung County has transformed from a traditional agricultural county into a sustainable city with green energy, low carbon emissions, and aesthetics. The County has also compiled its experience and insights of sustainable development and transformation into a book, titled "Pingtung Answers with Proofs," which can be used as a reference for other administrative regions in promoting renewable energy and sustainable development.



Solar Panels on the Rooftop and Sheltered Sport Courts at Schools - Raeyuang Elementary School in Pingtung City



Converting NIMBY Facilities into Solar Power and Multi-Function Spaces - Pingtung City No. 15 Cemetery Transformed into a Solar Power Comprehensive Sports Field and Park



Converting NIMBY Facilities into Solar Power and Multi-Function Spaces - Yenpu Landfill as a Solar PV site



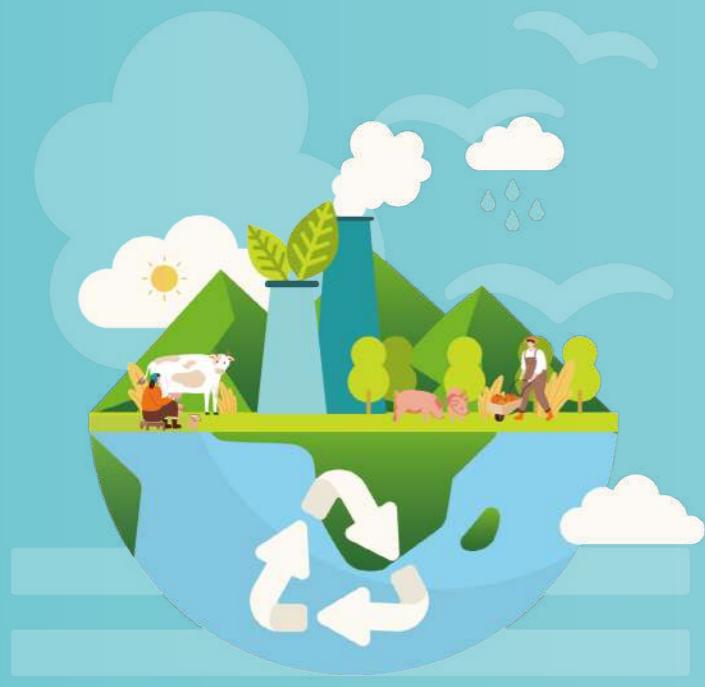
Multi-Function Use of Water Spaces - Floating Solar PV panels in Dongang Sansihe Detention Pond



Gaoshu PV demonstration zone was rebirthed after backfilling with gravel.



Publication of the Book "Pingtung Answers with Proofs" with the Theme of Green Energy and Sustainability



Chapter 5 | Strategy and Action

Increasing natural carbon sinks for a circular environment

As a major agricultural county with a high forest coverage rate, the County has never been absent from the implementation of natural carbon sinks, and is committed to reducing the use of chemical pesticides and fertilizers, increasing forest areas and wetland corridors, and actively exploring domestic and foreign sales channels and cultivating talents with the vision of sustainable agriculture. It continues to promote air quality improvement, wastewater treatment, waste reduction, resource recycling, marine environmental protection, and ecological restoration, to improve living standards and fulfill the goals of "SDG 2 Sustainable Agriculture", "SDG 6 Clean Water and Sanitation", "SDG 11 Sustainable Cities and Communities", "SDG 12 Responsible Consumption and Production", "SDG 14 Life below Water" and "SDG 15 Life on Land".



Mount Beidawu is the only one mountain over 3,000 meters high in the County. Mount Beidawu, Yushan, Xue Mountain, Mount Nanhу, and Mount Siouguluan, known as Taiwan Quintuple Mountains.

THE GLOBAL GOALS
For Sustainable Development



Chapter 5 | Strategy and Action

Increasing natural carbon sinks for a circular environment



1. Comprehensively reduce the use of chemical fertilizers

(1) Increase the area of organic cultivation and create a dedicated channel

With the focus of organic agriculture, the County government finds suitable land to set up organic zones, where farmers can cultivate organic products in a group or in a large-scale, reducing land waste and environmental pollution concerns. There are two organic zones: the "Haifeng Organic Group Cultivation Area" and the "Xinqi Organic and Chinese Herbal Medicine Quality Agriculture Group Cultivation Area", with a total area of 35.6 hectares. The Xinqi Organic Cultivation Area will be expanded about 40 hectares from July 2023. The County government will also create a dedicated production and sales channel. Starting from schools, organic vegetables will be provided to 202 elementary and junior high schools in the County once a week, with annual output of over 260 tons.

In addition, the County Government will cooperate with the central government's "Fertilizer Promotion Plan for Organic Agriculture" to assist farmers in applying fertilizers subsidies for organic agriculture, which increases organic and environmental-friendly cultivation areas in the County, and the content of organic matter in the soil and carbon sinks. As of the end of 2022, the County has 1,194 hectares of organic cultivation area and 382 hectares of environmental-friendly

cultivation area. The County Government aims to increase the area of organic and environmental-friendly cultivation by 10 hectares every year, and is expected to reach 1,200 hectares by 2030.

(2) Reusing Livestock manure and sludge as agricultural fertilizer

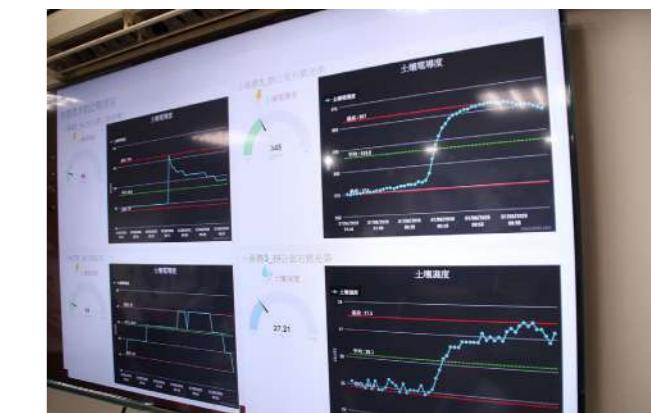
To prevent livestock wastewater from polluting river quality in the County, the County government has been promoting the reuse of livestock manure and sludge since 2015. As of August, 2023, manure and sludge fertilizer plans from a total of 425 livestock farms have been approved, irrigating over 619 hectares. The annual approved amount of manure for irrigation is 1.363 million tons, which is expected to reduce 9,132 tons of BOD. The County has the most approved livestock manure irrigation sites and the largest approved amount of manure irrigation in Taiwan. It has also attracted visiting observers from other counties. The County also has a fleet of 16 irrigation vehicles, including 6 vehicles owned by the Environmental Protection Bureau and 10 vehicles purchased by livestock farmers. This has effectively increased the amount of livestock manure and sludge irrigation.

(3) Promoting smart management agriculture

Taiwan's bananas used to be the main export product to Japan. Among them, two-thirds of the export volume was from Pingtung County. In the face of price competition from the Philippines, Ecuador, and other Southeast Asian countries, the

County Government cooperated with Agrifinance Information Service Co., Ltd., the smart technology research team, including Taiwan Banana Research Institute, College of Electrical Engineering and Computer Science of National Tsinghua University, U-SYNC Services Co., Ltd., Smart Agriculture Center of National Pingtung University of Science and Technology, and Taiwan Pingtung Agriculture International Marketing Co., Ltd., launched the "Returning to the Market in Japan, Pingtung Banana Farmers' Plan of Fortification". The plan involves the installation of monitoring instruments in banana plantations, the use of IoT modules, big data, and digital twin farms, to promote the smart transformation of Pingtung banana farming. The goal is to achieve "internationalization of production and sales, standardization of cultivation, certification of trust, and automation of processes". The plan also cooperates with the scheme of "Large-scale Farmers Leading Small-scale Farmers", which allows experienced large-scale farmers to lead small-scale farmers to improve production, reduce costs, and expand export markets.

Pingtung is the County with the largest production of Golden Diamond Pineapples in Taiwan. The traditional fruit selection process involves knocking on pineapples to identify the sound, and checking the appearance for cracks to ensure quality. To save labor force, improve fruit selection efficiency and accuracy, Silver Lion Farm in Gaoshu Township cooperated with Tsinghua University and Leadtek Research Inc. to build a pineapple sound recognition system by AI models. The farm has already collected a database of 50,000 knocking-sound entries of pineapples. The AI sound identification system can currently establish an analysis model with over 90% accuracy rate. This will help to address the labor shortage in agriculture. The system is expected to be applied to production lines in the future, making the selection of pineapples more accurate.



Establishment the "AI-powered Pingtung Banana Smart Dashboard"

2. Creating high-quality agricultural products and building various sales channels

(1) Enhancing the market value of agricultural products

The Pingtung County Government is promoting agricultural, fishery, and livestock product certification in all aspects. It has already introduced the following labels: "Pingtung Souvenir Special," "Pingtung High-Welfare Pork," and "Taiwan Pingtung Excellent Aquatic Products." These labels help to create a brand image that guarantees quality. The Government is also using the "Pingtung Souvenir Special" to promote a series of activities, such as the Pingtung Fruit Contest. These activities help to promote the concept of graded packaging, increase market competitiveness and farmers' income. In addition, Pingtung County South Island Organic Farmers' Market is held every Saturday at the plaza behind the Pingtung Performing Arts Center. The market sells organic agricultural products and increases friendly interaction between farmers and consumers.



Pingtung Certified Excellent Aquatic Products



2023 Pingtung County Golden Diamond Pineapple Contest



2023 Pingtung County Irwin Mango Contest

(2) Expanding sales channels to domestic and overseas markets

Pingtung County has unique geographical environment and abundant agricultural, fishery, and livestock products with strong competitiveness in both domestic and overseas markets. In addition to promoting seasonal high-quality agricultural and aquatic products through exhibition and promotion activities, the County government also strengthens its on-site marketing. For example, on County Highway No.185 and in the pineapple fields of Gaoshu Township, colorful hats were placed on pineapples that were about to be harvested. The pineapple hats were used to create colorful field patterns in different colors to guide tourists to learn about County Highway No.185 and the pineapple industry in Gaoshu Township, as well as the rural scenery, and to boost tourism and revenue in the Pingtung pineapple production area.

The County Government is also working hard to expand overseas sales channels. For example, the County Magistrate led a team to participate in the Asia's largest "Foodex Japan," and promoted Pingtung mangoes, pineapples, and bananas at the Tokyu Department Store in

Kichijoji, Japan. The Magistrate also visited Nissin World Delicatessen, the oldest retailer in Japan, to recommend Pingtung mangoes and pineapples. The County government also held a Pingtung agricultural product promotion event at Summit Store in Higashinakano, Tokyo, to enter the chain supermarket. The County Government also successfully arranged for 20 tons of high-quality grouper to enter the market of Malaysia, which is the most among export records. Pingtung bananas are also sent to school children as their lunch in Japan, directly supplying 212 elementary schools in Kyushu and Yamaguchi. In addition, 200 cartons of jujube were exported to Brunei by marine transportation with import standards of Japanese packaging. In the future, the County Government will gather seasonal high-quality agricultural products to pack and load them into containers, and will get more overseas orders to let more overseas consumers know about Pingtung's agricultural and aquatic products.



County Magistrate Participated in Asia's Largest "Foodex Japan"



County Magistrate and Ambassador Frank Hsieh Promoted Pingtung's Quality Products



Premium Grouper Enters the market of Malaysia

(3) The first Taiwan Sustainable Agriculture Alliance

To overcome the challenges in overseas sales channels and agricultural production and marketing, the Pingtung County Government adopted the concept of the mask national team and created the first "Taiwan Sustainable Agriculture Alliance". The Alliance facilitates cross-border effort with Taiwan Pingtung Agricultural International Marketing Co., Ltd., AUO Foundation, and farmers, farmers' associations, and cooperatives in the export of agricultural products. This provides a practical solution for the difficulties of the current agricultural production. Through a model of contract farming, local accompaniment, and experienced farmers supporting small farmers, the alliance helps to integrate farmers' planting techniques and set the product standardization and quality requirements of target markets. This helps to avoid the risk of over-reliance on a single market and establishes a good reputation for the export of Pingtung agricultural products, enhancing their international competitiveness.



Taiwan's First Sustainable Agriculture Alliance

3. Establishment of Agricultural University to Cultivate Agricultural Professionals

To develop sustainable agriculture, Pingtung County Government established the Pingtung County Agricultural University in 2015. The university was established to recruit and provide

learning opportunities for people who are interested in agriculture. It offers new manpower for agriculture in Pingtung County, enhancing industrial competitiveness and developing opportunities. As of 2022, the university has held 8 sessions, with a total of 1,499 students completing the training and 90% of graduation rate.

In addition to the four current courses, including the Agricultural Basic Classes, the Pingnan Branch Classes, Animal Science Classes, and Aquaculture Science Classes, the university established a new "New Immigrant Workshop" in 2023 to achieve multicultural exchange and agricultural knowledge improvement. The university also launched advanced elite courses which were similar to those in graduate institutes, including the latest "agricultural industry with net-zero carbon emissions courses" and "agricultural volunteer promotion and education activities" to attract young people to return to their hometowns as farmers. It also combines the public's concern for food safety to cultivate outstanding agricultural manpower.



Establishment of the Pingtung County Agricultural University



Animal Science Classes

Course	Course Contents
Agricultural Basic Classes	Agricultural development and policy, field management, agricultural equipment and machine operation, harvesting and processing
Pingnan Branch Classes	Cultivation management, land preparation and planning, practical experience
Animal Science Classes	Animal science, feeding management, business management, processing production
Aquaculture Science Classes	Introduction of Taiwanese marine fish species and aquaculture, environmental management technology of aquaculture, aquatic product processing
Elite Classes	Sales channels and marketing, brand building, the cloud and social media management, e-commerce operation, etc.
New Immigrant Workshop	Agricultural forums, field management, pest and disease control

4. Creating Happy and Sustainable Rural Life

In 2016, Pingtung County established the first "Rural Regeneration Initiative" in Taiwan. The Initiative integrates resources from various government agencies to promote rural regeneration projects. It has helped to build community capacity, retain local youth, and revitalize rural areas. As of February 2023, 279 communities in the county have participated in this Initiative, and 83 community projects have been approved. This makes Pingtung County one of the top five administrative regions in Taiwan with the most approved communities.

To promote the commercialization of agricultural products and increase their competitiveness in the market, the County Government has proactively assisted rural regeneration communities in redesigning their product packaging and styles to create new image and enhance brand value.

In 2022, the County Government also launched a variety of community-unique products through "cross-industry alliances and cross-industry collaboration." This creates a sustainable value and circular agricultural and fishery production model.

Since 2020, Pingtung County Government has promoted the "Dining Table Plan" to connect local specialty products, community walks, agricultural experiences, and feasts to invite people for in-depth experience of the rural life and its charm. In 2023, a total of 6 rural regeneration communities participated in the Plan, including Cingye Community in Sandimen Township, Ailiao Community in Neipu Township, Chihshan Community in Wanlun Township, Xinlong Community in Fangliao Township, Chaocuo Community and Dingyuan Community in Ligang Township. The itineraries are all-encompassing, fully presenting the rich culture of agricultural and fishing village in Pingtung County.



Quality Products of rural regeneration in Pingtung County



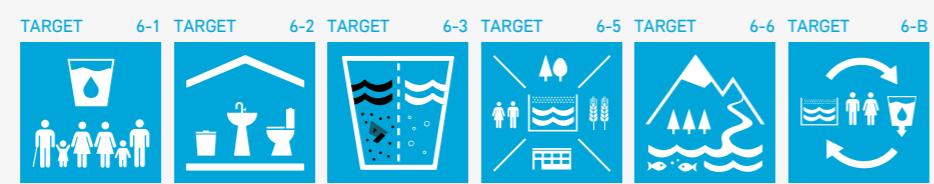
The Feast Event of "2023 Good Life, Good Food in Pingtung County"

Community	Cross-Industry Collaboration to Create Unique Products
Cheng-te Community, Wanlun Township	Combine local businesses to use citron and cocoa to develop and produce "22 Degrees Pineapple Citron Cocoa Filled"
Tingyuan Self-Governance District, Ligang Township	Use Yunnan fruit Eastern silverberry to launch "Come and Try the Yunnan taste: Eastern Silverberry Ice Cream"
Chiencin Community, Pingtung City	Partner with incense manufactory to launch the "Go Forward Incense Set" with basil and mugwood
Hsianglin Community, Manzhou Township	Co-launch "Kuririzhen popsicle" with ice cream businesses
Wayao Community, Sinyuan Township	Launch "Washanhe Black Bean Tea Gift Box" with tea factory
Daqiu Community, Jiuru Township	Launch "Wu Lemon - Chill Lemon Powder" with biotechnology company

5. Gathering Experience in Promoting Green Energy and Sustainability, Publishing the Book "Pingtung Answers with Proofs"

To assist the elderly in establishing healthy and balanced dietary concepts, enhancing activity levels, and reducing the occurrence of frailty and disability, the County Government cooperates with community care centers and cultural health stations to promote the concepts of "My Dining

Plate" for healthy and balanced diet, "New Concepts of Dietary Texture for the Elderly", "Unrefined Whole Grains and Legumes", and "Dairy Products". From January to August, 2023, the County Government held a total of 80 community elder group nutrition education sessions, with 2,358 participants, covering 36.1% of villages. In addition, 70 elderly commensal centers and community catering businesses assist in providing elder-friendly meals and can prepare meals with adjusted texture to improve the nutrition and health status of the elderly.



Specific Targets of the Current UN Sustainable Development Goals in the County

1. Increasing the Coverage of Water Supply and Water Resource Development

Providing all county residents with clean tap water in reliable supply is one of important governance goals in Pingtung County. In recent years, the coverage of water supply in Pingtung County has increased by an average of 2.5% to 3% annually. The county's tap water supply rate has increased from 47.7% in 2015 to 65.5% at the end of 2022, which is a County with the fastest growing rate in Taiwan.

The County has abundant and good quality groundwater sources, for example, the underground canals Erfeng Canal in Laiyi Township and Lili Canal. Erfeng Canal's water

collection dam and water transfer system use 1% slope to guide the water into the water canal. Fully relying on gravity to transport water, the slope creates a current that reduces the deposition of sand and gravel in the water canal without affecting the water supply function. Erfeng Canal has supplied water for over one hundred years without interruption.

The County Government followed traditional design and used modern materials to construct "Linbian River Underground Water System," supplying at least 10,000 tons of water to the County's water company every day. It is the first case in Taiwan that a local government self-funded to develop an underground water source. This sets a new paradigm for water resource development and sustainable utilization in Taiwan.



Erfeng Canal as a Century-Old Water Source



The First Underground Sewage Treatment Facility in Liuqiu Township (fully underground to preserve activity space)

2. Liuqiu Township's (Clustered) Sewage Treatment Facilities Giving People Peace of Mind

In recent years, the vigorous growth in the number of tourists and homestays in Liuqiu Township results in the exponential growth of domestic sewage volume. In order to solve the sewage problem caused by tourists, Environmental Protection Bureau (EPB) launched a sewage improvement project in Liuqiu Township since 2017. Four clustered sewage treatment facilities have been constructed, including Benfu, Zhongfu, Shangfu, and Difu. The total daily sewage treatment capacity of these facilities is 3,580 tons, covering 90% of the domestic sewage on the entire island. This can effectively conquer difficulties in building sewerage system in the outlying islands within a short term. It also improves the marine environment and ecology, and raises public awareness of water resources protection. The facilities can serve as a model for sewage treatment in other outlying areas.

3. Water Quality Treatment Facilities with Local Features

Pingtung County Government is committed to improving the water environment. Donggang River is one of the major rivers in Pingtung County. In order to address the long-term impact

of domestic sewage and livestock wastewater on Donggang River and to improve the quality of life and ecological environment, the County Government constructed a number of water quality treatment facilities in the upper reaches of Donggang River, including the Longjing River Water Quality Treatment Facility with overland drainage, Gantang Water Purification Plant, Neipu Longjing River Water Quality Treatment Plant (the first aquaponics water quality treatment plant in Taiwan), and the Green River Water Quality Treatment Plant (under planning). In addition, the County Government has also established Shashe River Water Quality Treatment Plant and the Wannian Wetland Group in the Gaoping River basin to improve river water quality.

The construction of facilities faced many challenges, but the County Government has overcome them without fear. The County Government has also received many accolades for its efforts. For instance, Gantang Water Purification Plant won the "Best Environmental Culture Award" at the 2021 National Outstanding Construction Awards, and the Neipu Longjing River Water Quality Treatment Plant won the "Best Planning and Design Award" at the 2022 National Outstanding Construction Awards. These awards show the commitment of the County Government in improving the water environment.



Gantang Water Purification Plant



Longjing River Water Purification Plant, Neipu Township

4. Protecting Water Resources

(1) Installing River Trash Screening Facilities

In order to strengthen flood control and prevent garbage from entering rivers and causing ecological disasters, Pingtung County Government has installed river trash screening facilities at river confluences and urban drainage systems. These facilities include the Lishe Drain in Kanding Township, the Yuchigou Drain in Kanding Township, Cambridge in the upstream of the Xizhou River in Kanding Township, Shuixian Bridge of the Linluo Drain in Wandan Township, Xinghuabu Drain in Wandan Township, and the Sansihe Detention Pond of the Xiabu Drain.

Designated personnel patrol the rivers, district drainage systems, and rainwater drainage routes every week. Once they find dirty spots, cleaning work will be assigned to responsible team. As of August 2023, the County Government has cleaned up rivers and drainage systems, effectively reducing 194 tons of river trash. This

has greatly benefited flood control and water quality improvement, and is the basis for creating a beautiful water environment.

(2) Establishing Water Environment Patrol Teams

The Pingtung County Water Environment Patrol Team has over 20 years of history. There are 23 water environment patrol teams with a total of 472 members. They assist the Environmental Protection Bureau in investigating pollution sources, reporting environmental pollution, maintaining wetlands, patrolling marine environments, cleaning riverbanks, beaches, mountains, and community environments. They also cooperate with the Bureau in promoting resource recycling, water conservation, and the use of livestock manure and sludge as fertilizer. The patrol teams work together to reduce livestock pollution and river pollution in the County. They are major contributors in improving the water quality of water bodies in Pingtung County.

(3) Screening and Removing water hyacinths in Donggang River

Water hyacinths grow and propagate rapidly. During the dry season, the water flow slows down and becomes eutrophic. In addition, the hot and humid weather makes it easy for water hyacinths to grow and block the river channel. In the summer, water hyacinths are washed down by rain and hinder the drainage and passage of ships. Pingtung County Government has installed two "interception lines" in the river channel, about 500 meters upstream of the Donggang Bridge, to prevent water hyacinths from packing up at Dongliu Wharf, which is at the downstream of Donggang River. For many years, the County Government has hired workboats to clear water hyacinths every day to keep transportation boat of Dongliu Line and other boats operating smoothly.

5. Sustainable Water Management

Environmental Protection Bureau of Pingtung County Government has established a cross-department team to conduct "Nighthawk Early Inspection Action" to inspect odor and wastewater pollution in hot spots that are frequently reported by the public. The team has evolved from its original random, spot inspections to a combination of patrol and stakeout ways. The team also uses scientific instruments to reduce the burden on manpower and monitors water quality for 24 hours to track the discharge times of livestock wastewater.

According to statistics, penalties were given in 117 of 1,860 water pollution inspections conducted by the team, and 22 of 352 odor pollution inspections from January to August in 2023. The team's efforts have significantly increased the detection rate of material violations, which has prompted businesses to improve their effectiveness of wastewater and odor treatment. The team has also identified major environmental polluters, which assists in improving river water quality and reducing complaint cases.

Due to team's efforts of inspecting and guiding the control of wastewater discharge, the key monitoring stations at Jiuru Bridge and Gangci Pumping Station on Gaoping River and Donggang River in Pingtung County have been removed from the list of monitored stations in 2023. As of now, there is only one station, Cinsheda Bridge on the Dongtan River, remained as monitored station but did not report serious pollution in 2022. According to a survey, the length of the severely polluted section is only 0.9% in Donggang River, which reached the lowest record as of 2022. As a result, Donggang River will soon be released from the list of severe pollution rivers.

The reduction of key monitoring stations and reduced river pollution sections demonstrate significant improvements of river quality in Pingtung County.



1. Air Quality Improvement

To improve air quality in Pingtung County, the County Government launched the "Safety and Happiness: Air Pollution Control Action Plan" in 2021. This plan integrates resources from all County Government departments and is implemented based on 3 key aspects: pollution reduction, economic development, and discernible changes.

The plan identifies 5 key areas: industrial areas, sand and gravel dredging areas, agricultural key areas, densely inhabited areas, and tourism key areas. The 5 key areas are implemented with 12 guidelines, including "reducing emissions from stationary sources", "strengthening odor control", "effectively regulating motorcycles and reducing emissions", "managing diesel vehicle emissions", "promoting low-emission vehicles", "regulating open burning and improving the disposal rate of agricultural waste", "managing construction projects", "using technology to regulate sand and gravel dredging zones", "joss paper collection, scheduled incineration and reduction", "managing exhaust emissions from restaurants", "improving overall road cleanliness", "preventing dust generation from rivers". The plan also sets 27 prevention measures and 67 management targets to improve the effectiveness of air pollution control in Pingtung County.

To prevent deterioration of air quality, Pingtung County has also established "Regional Air Quality

Deterioration Prevention Measures", including prevention measures for stationary sources, mobile sources, and fugitive sources. It also requires all County Government departments to remind sensitive populations to take self-protection measures and to work with upwind counties to strengthen air quality deterioration response, inspections, and patrol activities. These measures assist in reducing air quality deterioration in the county and protecting public health.

After long-term air pollution control, air quality in Pingtung County has improved year by year. In 2022, the concentration of particulate matter ($PM_{2.5}$) was $13.9 \mu g/m^3$, which is lower than $15.4 \mu g/m^3$ in 2021 and is the lowest on record. In addition, there were no $PM_{2.5}$ red alert days ($AQI > 150$) in 2022, making Pingtung County the only county south of Changhua that did not experience any $PM_{2.5}$ red alert days.



Fu An Temple joss money collection for scheduled incineration

Safety and Happiness: Air Pollution Control Action Plan			
Collaboration between different departments and agencies			
Five key control areas			Industrial areas Sand and gravel dredging areas Agricultural key areas Densely Inhabited areas Tourism key areas
	Stationary sources of pollution	7 measures with 19 targets	<ul style="list-style-type: none"> Promote factory emissions reduction Designate pollution sources for reduction Pollution control of factories and industrial areas Strengthen the improvement of factories with complaint cases Strengthen improvement of odor Implement the control of harmful pollutants and the air pollution fee collection system Implement compliance of regulations
	Mobile sources of pollution	9 measures with 17 targets	<ul style="list-style-type: none"> Phase out high-polluting motorcycles Phase out and improve high-polluting diesel vehicles Strengthen motorcycle control Strengthen diesel vehicle control Promote low-pollution vehicles Promote traffic management measures Promote integration of vehicle inspection and maintenance Promote idling off policy Pollution control and fuel control of ships
	27 air pollution control measures	Figutive sources of pollution	<ul style="list-style-type: none"> Regulating open burning and improving the disposal rate of agricultural waste Controlling sand and gravel dredging areas Managing construction projects Improve road cleanliness Prevent river dust generation and bare ground on the riverbed Control exhaust emission from catering industry Guide and reduce joss paper incineration Manage air purification zones and bare ground
		Integrated sources of pollution	<ul style="list-style-type: none"> Improvement of the overall environmental quality of environmental tourism attractions Promote self-management of indoor air quality Improve satisfaction of the public with air pollution control and improvement

2. Technology control and pollution prevention new strategy in sand and gravel dredging areas

(1) Planning sand and gravel dredging control areas

Pingtung County is the leading producer of sand and gravel in Taiwan. Sand and gravel dredging operations produce 13.2% of the particulate matter emissions in Pingtung County.

In 2018, Pingtung County designated the sand and gravel mines and dredging projects in the Laonong River (Ligang Township and Gaoshu Township) and the Ailiao River (Yenpu Township) as the "Sand and Gravel Dredging Control Area in Pingtung County" (hereinafter referred to as the "Dredging Control Area").

The County also established the "Pingtung County Sand and Gravel Dredging Area Monitoring Command Center" to monitor road pollution, the use of dust covers on sand trucks, and vehicle-generated dust. The center uses a variety of technology-based monitoring equipment to transmit data in real time to central monitoring system. The center also coordinates with other government agencies, cities, and projects to improve dust pollution control.

This new approach of pollution control has evolved from traditional way of "point" and "line" control to more comprehensive "area" control.

(2) The first "Timely Rain to Restore the Original Color of Trees" project in Taiwan

In 2020, Pingtung County is the first county in Taiwan to launch the "Timely Rain to Restore the Original Color of Trees" project. The project provides subsidies to sand and gravel dredging companies in the five stock locations of the dredging control area with high-pressure washing vehicles for roadside trees. These vehicles are

used to periodically wash the trees along roads in the area. The County also cooperates with other stakeholders to keep roads clean.

(3) The first intelligent control of sand and gravel dredging areas in Taiwan

In 2022, Pingtung County became the first county in Taiwan to implement an intelligent air pollution control system in four dredging areas. The system uses PM10 microsensors to monitor air quality in real time. When the concentration of particulate matter exceeds a pre-defined value, the system automatically sends text messages to sand and gravel dredging companies. These companies will activate their own pollution control mechanisms, including automatic sprinkler systems to suppress dust. The system also uses CCTV cameras to monitor pollution control activities in the area. This improves the ability of sand and gravel dredging companies to respond to pollution incidents and reduce the duration of particulate matter emissions.



"Timely Rain to Restore the Original Color of Trees" project

3. Creating a high-quality and friendly public environment

To create a senior-friendly and inclusive environment for all ages, Pingtung County has launched a plan to revitalize all the parks. The County has also been the first in Taiwan to incorporate "children's rights of expression" into its "Pingtung County Park Management



Citizens' Park



"Children's Playground Passport"



Liuqiu Inclusive Playground



Fuxing Park

Regulations." This has led to the design of parks that meet the needs of all generations.

Since 2021, Pingtung County has implemented "One Distinctive Playground for Each Town" project. The County has mobilized its profession-based departments to identify suitable sites in each township and create unique playground themes based on local characteristics. As of now, 30 playgrounds have been completed, including Hakka Sedan Chair Playground in Linluo Township, Deinagkistrodon Tower Playground in Laiyi Township, and Onion Daifuku Playground in Checheng Township.

The designs of these playgrounds focus on children's sensory integration development. Different from old designs, there are various challenging facilities in the playgrounds with

climbing, balancing, swinging, bouncing, sensory, and social features which are benefit for children's mental and physical development.

In 2022, Pingtung County also launched the "Children's Playground Passport" booklet, which introduces information about the parks in the County. The booklet includes QR codes that provide more up-to-date and accurate information. The booklet is available at tourist service centers and information centers throughout the County.

The County has also constructed several new distinctive parks. For example, Citizens' Park is located on the site of former paper factory, sugar factory, and Shashe River waterfront, it's the first park that combines industrial heritage site and water corridor in Taiwan, and is the only park

in Taiwan that preserves the site of former paper mill. The park has won 18 international awards, including "2023 FIABCI World Prix d'Excellence Awards — Silver Award," "2022 German Design Award — Gold Award," and "2021 International Design Awards — Bronze Award."

The County is also promoting the development of the Wannian River waterfront. The County uses excellent blue belt water system of the river to create a multi-purpose environment that integrates water quality purification, urban rainwater retention, and water environmental education. The Wannian Park and Fuxing Park create a new connection between people and water, moving towards a sustainable and environment-friendly city.

4. Promoting high-quality religious festivals

To promote high-quality religious festivals, Pingtung County has established a "Joint

Promotion Team" composed of representatives from the Civil Affairs, Police and Fire departments, and Environmental Protection Bureaus. The team proactively sends out promotional materials on high-quality religious festivals to temples that are planning to hold events. In 2022, the team sent out 123 copies of promotional materials. The team also sends representatives to the event sites to tell the event participants to refrain from burning firecrackers and joss money, ensuring the balance between traditional customs, religious culture, and the quality of life of people.

During pilgrimage, relevant agencies in Pingtung County establish a "Joint Inspection Team." The team guides temples in self-regulation within the framework of coordination before event, counseling during event, and penalty after event. Pingtung County also encourages major temples to reduce incense and joss money burning, moving towards "environmentally friendly temples."

The Environmental Protection Bureau also cooperates with the Environmental Protection Police of the Seventh Special Police Corps and Pingtung District Prosecutors Office to conduct covert surveillance and ambush missions. At locations that are prone to illegal dumping, the Environmental Protection Bureau uses "technology enforcement" to set up hidden cameras to record evidence. This assists in investigating organized criminal cases. When illegal waste carriers are caught, they are transferred to the judicial system for investigation and the vehicles and other evidence are seized as well.

(2) Cultivating a sharing economy

Liuqiu Island is a popular tourist destination in Taiwan, with over one million visitors per year. To reduce waste generation, the County Government launched the "Liuqiu Cup" sharing initiative. The initiative uses the concept of "reduction from the source" to improve waste disposal capacity in Liuqiu Island. It is the first cup rental sharing program in Taiwan to involve an entire township. It has now become a classic brand for reusable cups and a model for other outlying cities and counties.

Liuqi island, which is less than half of the size of Green Island, now has 115 friendly Liuqi Cup lending points. The program offered 94,000 cup rentals in 2022.

The County Government is also working with local restaurants, travel agencies, and citizen groups to implement the "Eat, Drink, and Play on Liuqiu Island without Plastic" program. The program is committed to promoting the use of reusable meal boxes, reducing single-use items at restaurants and guesthouses, and not providing plastic bags for free at stores. The goal is to achieve a plastic-free and low-carbon island.

To promote the recycling and reuse of secondhand shopping bags, the County government has

established "Bags without Plastic!" shopping bag recycling and sharing stations at 2 hypermarkets, 12 supermarkets, and the Kenting Night Market. People do not need to pay for shopping bags, and the government also advises people and vendors to refill the stations with durable paper bags and shopping bags to reduce plastic and waste.

In the future, the Government will expand the program to include large supermarkets, bookstores, drugstores, and convenience stores. This will create a win-win situation for people, businesses, and the environment.



"Liuqiu Cup" rental service



Carrefour Xinping store sets up "Bags without Plastic!" shopping bag recycling and sharing station

(3) Establishment of fixed-point regular flea markets

To cultivate a correct understanding of "resource reuse and waste reduction," Pingtung County Government promotes the inclusion of flea markets in distinctive commercial districts. These markets provide a platform for people to freely exchange and sell secondhand goods. The markets also incorporate government policy promotion booths, such as reduction from the source, recycling, and the month for mobile phone recycling, to strengthen public awareness of "extending the life of old goods for environmental sustainability."

In 2022, the government partnered with the



Core Objectives



Specific Targets of the Current UN Sustainable Development Goals in the County

1. Promoting waste and emission reduction

(1) Enforcement inspection of illegal waste disposal

To prevent illegal waste dumping from out of the County, Environmental Protection Bureau of Pingtung County launched the "Skynet" inspection project in 2019. The Environmental

Protection Bureau and police department conduct random inspections of vehicles carrying waste at important bridges and intersections, preventing unscrupulous companies from transporting illegal waste to dump or backfill. From January to August 2023, the Environmental Protection Bureau and the police department conducted 108 inspections and intercepted 72 vehicles.

Pingtung County Youth Entrepreneurship Cluster to hold 10 flea markets, named "Come and Go: Markets for Exchanging Secondhand goods" and cooperated with "Pingtung FUN Summer Vacation Summer Carnival" to promote 1 large-scale secondhand exchange market, named "Come and Go: Old goods without waste". The 11 flea markets attracted over 19,000 participants and 6,289 secondhand items sold, achieving the goals of source reduction and circular reuse.

(4) Establishing village-level recycling stations

To strengthen the recycling capacity at the grassroots level and return the benefits of recycling to the public, Pingtung County has cooperated with implementing agencies, villages, communities, and other community groups since 2016 to build a network of recycling stations. The stations are named "The Ant's Home Welfare Station" (hereinafter referred to as "village-level recycling stations") in the spirit of "full recycling and zero waste." They operate regularly and at fixed-points, and sell recycled materials to purchase daily necessities for people as redemption offers. In addition, they have set more favorable redemption conditions for economically disadvantaged people (40% lower than the standard for ordinary citizens).



Cooperating with the "Pingtung County Youth Entrepreneurship Cluster" to host "Come and Go: Markets for Exchanging Secondhand goods"

To date, there are 53 village-level recycling stations in the County, with an average annual recycling volume for over 340 tons. The County has also proposed "3 active strategies and 2 strengthening strategies" to improve the recycling, service, and operational efficiency of recycling stations to achieve the goal of self-operation and sustainable management.

(5) Strengthening garbage bag inspection, on-site inspection and return measures to improve efficiency of incineration plant

To duly implement garbage sorting and source reduction, and to extend the lifespan of the Kanding incineration plant, the County has increased the number of inspection personnel since 2020 to conduct "garbage screening" during

waste collection to make a habit of resource recycling among the public. In addition, the County has strengthened "on-site inspection" to prevent illegal transportation and recyclable waste from entering the incineration plant to ensure its operational quality. In 2022, the visual inspection rate of household vehicles reached 17.9% and on-site inspection rate reached 9.7%. The visual inspection rate for business and private waste disposal agencies reached 20.8% and on-site inspection rate reached 21.4%, all of which meet the frequency requirements for waste entry inspection stipulated in "General Waste Incineration Plant Waste Entry Management Regulations" of Ministry of Environment and "Pingtung County Kanding Garbage and Recycling (Incineration) Plant Guidelines".

In the future, the County will continue to promote waste sorting, kitchen waste utilization, resource recycling, and reuse in line with the concept of sustainability. At the same time, the County will strengthen the inspection of tipping platforms to strictly control the quality and quantity of garbage sorting and transportation. The County is also actively preparing for upgrading and maintenance of incineration plant, including a garbage visual inspection surveillance system with high resolution and a garbage on-site inspection lifting platform completed before 2024, which will effectively improve the speed and reliability of all inspections.

2. Improving the recycling and reuse of livestock wastewater

Pingtung County is a major agricultural county. As of August 31, 2023, a total of 1,905 registered businesses (including nearly 1,361 livestock farms and 544 businesses with sewage treatment systems). In addition, livestock businesses consume a large amount of water. To effectively alleviate the water resource shortage, the County has provided guidance to livestock businesses on wastewater recycling and reuse since 2015. In



Garbage screening



Garbage inspection at tipping platforms

2018, the County established a livestock business advisory team to provide customized guidance to local livestock farms. The team provides advice on optimizing wastewater treatment, reducing odor, and quantifying operation parameters for each unit to improve the efficiency of wastewater treatment facilities. To date, the team has provided guidance to 389 livestock farms. The process also incorporates the 5R principles of the circular economy: reduce, reuse, recycle, recover, and repair. This helps to maximize resource utilization and minimize environmental impact.

Until August 31, 2023, a total of 457 livestock farms have been approved to recycle livestock wastewater for washing pigpens and irrigating flowers. The County is the first in the country to approve the use of discharged water for irrigating flowers. 1.286 million tons of water resources can be recycled every year, which reduces 102 thousand kilograms of BOD and effectively improves river water quality.

Resource Recycling: 3 active strategies and 2 strengthening strategies	
3 Active strategies	2 Strengthening strategies
<ul style="list-style-type: none"> Actively match nearby villagers to join recycling stations to redeem daily necessities to expand the service area. Actively contact residents in remote areas to promote on-site weighing and token collection services at their homes. Actively contact households with disabled person to collect recyclable goods from their homes and send to recycling stations for weighing and token collection services. 	<ul style="list-style-type: none"> Strengthen the recycling capacity through promotion to increase the people's willingness to sort and redeem recyclable goods. Strengthen the disposal in recycling stations on off days: for example, the people rinse and sort recyclable goods at home with clearly marked bags and send to temporary storage locations.



Specific Targets of the Current UN Sustainable Development Goals in the County

1. Six countries respond to the innovative "Bring back marine debris, fish for yourself" program

To promote the recycling of marine debris from fishing boats and reduce marine debris in coastal areas, Pingtung County Government launched the innovative "Bring back marine debris, fish for yourself" program on February 15, 2022. Through the assistance of staff at the inspection stations, the program provides fishermen with marine debris recycling bags and a redemption system for rewards. This encourages fishermen to bring back marine debris resulted from fishing activities, reducing marine debris. By bringing back marine debris, fishermen can redeem local agricultural products, such as red beans, red bean noodles, and Pingtung rice, as well as environmental household products.



"Bring back marine debris, fish for yourself" promotional brochure



Marine debris can be exchanged for local agricultural products

From January 1, 2022 to August 31, 2023, the program has collected over 50 tons of marine debris, which is 45 times more than those of 2021 (1,115 kilograms).

Protecting marine ecosystems is a commitment without borders, Pingtung County Government produced promotional video for the "Bring back marine debris, fish for yourself" program, and internationalized the reward redemption instructions in six languages, including Indonesian, English, Thai language, Malay language, Filipino language, and Vietnamese. This allows foreign fishermen and new immigrants to participate in the program and protect marine environment.

2. Promoting the Environmental Fleet by Combining with Scuba Volunteers

Pingtung County Government is committed to protecting the marine ecosystem. In order to remove more nets that cover seabed coral and marine debris, the County has recruited a total of 1,134 environmental fleets as of August 2023, breaking the national record. The number

of underwater warriors also reached 232. On the eve of National Ocean Day, the first "Sea Diving Warriors" was recruited, consisting of 13 elementary school students. They are working together to protect the marine environment in Pingtung, effectively improving water quality in the sea area and reducing the impact on marine ecosystems. On September 21, 2023, the County received a donation of marine cleanup vessel from Formosa Plastics Group and Ching PAO P.D. Charitable Foundation to collect marine debris.

With 172 kilometers of coastline, Pingtung County has taken several ways to protect marine environment, including "matching groups to adopt beaches", Launching the "Bring Back Marine Debris, Fish for Yourself" campaign, Establishing the team of "Sea Diving Warriors", and "recruiting fishing boats to join the environmental fleet".



Sea Diving Warriors protect ocean environment



Sea Diving Warriors

As a result, Pingtung County Government has been awarded the "Excellent" by Ocean Conservation Administration for 3 consecutive years, from 2020 to 2022. The marine protection achievements in Pingtung County have been widely recognized.

3. Establishing Outdoor Education and Marine Education Center

To assist students in understanding natural environment, Pingtung County Government has established the "Outdoor Education and Marine Education Center" to promote outdoor education and marine education for schools of all levels. The curriculum includes field visits to ecological sites, mountain exploration, community walks, fish education, marine art and cultural experiences, and beach cleanup activities. The goal is to help students learn about their hometown and develop environmental conservation skills as future citizens.

In the 2022 academic year, the center promoted outdoor education at 42 elementary and junior high schools, introduced 6 elementary schools to quality outdoor education routes, and organized 10 elementary and junior high schools to offer self-directed outdoor education courses. The center also held a poetry contest for marine conservation in Pingtung County to encourage schools of all levels to combine marine conservation with literary creation, strengthening the application of marine conservation knowledge and its connection to daily life. Furthermore, the center has connected 18 schools to establish a marine education strategy alliance, moving towards the goal of "forest, river, village, sea, and mountain thriving together". The center is currently creating a map of potential outdoor education and marine education sites in each township of Pingtung County. The map will combine regional attractions, historical and cultural features, and hometown picture books to provide teachers with the purest local educational resources to benefit elementary and junior high school students and teachers.

4. Balancing tourism and ecology by establishing Liuqiu intertidal zone management station

Under the pressure of climate change and tourism, Pingtung County Government has launched resource surveys and monitoring in Liuqiu Township since 2019. Based on scientific assessments, the government has successfully implemented measures, including "expanding the Duziping intertidal zone conservation demonstration area", "banning on entering intertidal zone conservation demonstration area during the breeding season at night", "using red light for guide tours at night", "banning on visits with pets", "designing guide routes in intertidal zone conservation demonstration area", "technology management", and "assisting in the establishment of patrol teams".

In 2022, Pingtung County Government used technology to establish "Liuqiu intertidal zone management station", including Shanfu and Yuchengwei intertidal zone management station buildings, and an artificial intelligence (AI) pedestrian flow identification system and "Liuqiu intertidal Conservation Website" online application system. The management is fully computerized. During receding tide, each hour is one time slot and each time slot is limited to 300 people. Visitors can learn about the number of people in the intertidal zone, biological information, sea conditions, and conservation regulations in real time through the internet or the display screen at the management station. This has created a balanced development situation for the local intertidal zone tourism industry and ecological conservation.

In the same year, the government also developed a long-term resource restoration plan to restore coral reefs, Sargassum, and Tridacnidae. Since 2023, the government has been training local scientific citizen to localize resource management by community-based resource monitoring and restoration activities to improve sustainability.



Intertidal zone conservation demonstration zone



Liuqiu Intertidal Conservation Website

5. Expansion and improvement of Xinghai Fishing Port and underwater cultural heritage investigation

Xinghai Fishing Port, built in 1982, was not well-protected by the breakwater and lacks natural barriers. Consequently, the port was easily affected by northeast monsoon and waves from typhoons in the summer, which is difficult for ships to enter and exit the port. Nevertheless, there is a nice fishing ground off the port, but the spaces are insufficient for the ships.

In accordance with the "Underwater Cultural Heritage Preservation Act" announced in 2015, Pingtung County Government investigated

for underwater cultural assets or suspected underwater cultural assets in the water. Investigations showed a new suspected archaeological site in the Xinghai community. The artifacts included prehistoric pottery shards in light brown, orange, reddish brown, and orange-red colors, and blue-and-white porcelain shards and hard pottery from the Japanese colonial period to the Republic of China era. During the investigation and interview, it was learned that the old name of Xinghai Fishing Port was "Yaba Port" in the Minnan dialect. This newly discovered suspected archaeological site was named "Xinghai Suspected Archaeological Site". Since the site is adjacent to Baishizi Archaeological Site and there is an ongoing excavation work, Pingtung County Government will implement a construction monitoring plan in accordance with

the "Cultural Heritage Preservation Act" and the "Underwater Cultural Heritage Preservation Act", and submit the archaeological monitoring plan to the competent authority for review before construction.

The expansion and improvement project of Xinghai Fishing Port, which is scheduled to be completed by the end of August 2024, will effectively enhance the port's sheltering function, and improve the safety of fishing boat mooring, which will benefit the development of fisheries in Manzhou and Hengchun areas. Local people also expect the transfer of the Lanyu Houbi Lake route to Xinghai Port. This will shorten the passage by nearly 30 minutes and boost the development of accommodation and catering businesses on the east coast of Manzhou.



Core Objectives



TARGET



TARGET



TARGET



TARGET



Specific Targets of the Current UN Sustainable Development Goals in the County

is a case with the largest area in the country.

From 2020 to 2023, except for artificial management operations in Fangliao River to fulfill local people's expectations, the County also follows sustainable forest management model to participate in international verification, which increases self-sufficiency rate of domestic timber and employment opportunities.

In the future, the County plans to assist the national forests in obtaining FSC™ FM forest certification. At the same time, the County Government also encourages and subsidizes private sectors to participate in the certification, and gradually achieves the goals of sustainable

forestry, promoting mountain village economy, utilizing forest by-products, and biodiversity, creating an economic, social, and environmental win-win model.

(2) Increasing afforestation area and promoting the Indigenous Reserved Area Ban on Logging Plan

Since 2015, Pingtung County has cooperated with Forestry and Natural Conservation Agency Pingtung Branch to proactively remove harmful invasive tree species. The County has also planted a million trees in various species throughout the County. In addition, the County creates natural aesthetic in urban areas by planting trees, including Pingtung Riverside Park and the Pet Exercise Park, which increases public recreation areas and connects the forest to coastal area as habitat network for animals and plants.

To protect the native environment, the County promoted logging ban compensation for lands reserved to protect forests with indigenous peoples. As of now, the County has encouraged afforestation in flatlands and hillsides for nearly 4,500 hectares, and logging ban compensation area has covered 27,892 hectares. The logging ban compensation area in Pingtung County is the largest one in the country, which accounts for 40% of the total compensation area. This shows the determination of Pingtung County to protect the environment.

(3) Creating a carbon sink and pollution reduction waterside corridor

To improve the long-term pollution of the Wannian River resulted from domestic and livestock wastewater, and to enhance the ecological environment and living quality of the riverside residents, Pingtung County has built the Wannian Wetland Group, including the Golden Wetland Phase I and II, the Zhenliao Wetland Phase I and II, and the Haifeng Wetland Phase I and II, which covers over 30 hectares with the functions of

carbon sequestration, environmental education, water detention, water resources conservation and landscape recreation. It also built a Linluo artificial wetland in the irrigation branch of Ailiao River to increase ecological protection capacity in the County.

Currently, the water quality of the wetlands all meets the local standard. 7 category-two protected bird species and 4 Taiwanese endemic species were recorded in the Wannian Wetland Group. The population of Pheasant-tailed jacana has also shown a significant increase. Haifeng Wetland has been certified as an environmental education facility in August 2022, and the Wannian River Wetland Group is currently applying for certification as a local important wetland. Linluo Wetland was certified as a local important wetland in March 2020 and as a certified wetland in June 2023. It has also successfully restored 12 specimens of *Salix kusanoi*, a Taiwanese endemic species.

In 2023, Pingtung County Government calculated carbon flux based on Haifeng Wetland Phase I and Phase II. The carbon flux calculation includes 4 parts: "total organic carbon flux in water intake and outlet, estimated total primary production of algae in water, estimated net primary production of plants, and gas exchange flux." The carbon flux calculation results of Haifeng artificial wetland I and II is 26.12 and 26.03 (kg C/m²/year). Calculated by the wetland area, the total carbon sink of Haifeng artificial wetlands I and II is 77,191.1 and 136,492.3 (kg C/year). Overall, the carbon flux of Haifeng artificial wetlands is 26.08 kg C/m²/year, and the amount of total carbon sink is 213,683.42 kg C/year.

In the future, Pingtung County will continue to strengthen water resources and ecological environment management, expand the waterbird restoration base and environmental education venues, and connect the green and blue belts along the coast to create a multifunctional cultural and ecological scenic area and a sustainable ecological management model.



Haifeng Wetlands



Linluo Wetlands



With abundant biodiversity, category-two protected species Pheasant-tailed jacana was found in the wetlands.

2. Promoting the Removal of Harmful Invasive Species

Due to the frequent international trade and economic exchanges in recent times, some harmful invasive species have entered Taiwan, seriously affecting the local ecological environment and incurring economic losses. To prevent invasive

species from spreading and harming ecosystem, the County has carried out invasive species removal since 2013. Until now, a total of 55,665 individuals of green iguanas have been removed (the first in the country) and 804 nests of African sacred ibis (including 389 eggs and 52 birds) have been removed. Currently, there are no adult birds nesting. In 2023, 4 operations were carried out to remove the Polypedates megacephalus and the banded bullfrog, including 79 frogs, 2 sites of frogspawn, and invasive plants in an area of 43 hectares were removed. In the future, the County will continue to control the invasive species and strengthen the promotion of invasive species prevention and reporting mechanisms to protect the local natural ecosystem.

3. Creating Wildlife Habitat Protection Areas

To protect the rich marine ecosystem and beautiful coastline, the County Government concerns about ecological environment, marine ecological conservation, resource survey and monitoring, protecting the habitat of endangered species and restoring the population. There are 7 beaches on Liuqiu Island with green sea turtles' spawning records. The County has also sent a letter to the Ocean Conservation Administration, Ocean Affairs Council, for designating green sea turtles' important habitat. The County also continues to handle the work of rescuing and sheltering dead or stranded sea turtles and cetaceans.

In addition, the County established nature reserve in the "Alang Yi Trail" of Xuhai-Guanyinbi coastal area in the east of Pingtung County. Because the area is a precious place in Taiwan with well-preserved highly natural coastal and riverine landscapes. It also has a variety of endemic plant species, such as *Caesalpinia bonduc* and *Garcinia multiflora*, and protected animals, such as Fairy pitta, *Strix leptogrammica*, and Yellow-throated marten. The County will work to maintain the integrity of the ecological resources and

landscape within the area by cooperating with environmental protection, education and guidance for tour guides, and strict enforcement of illegal destruction.

4. Strengthening Slope Protection, River Restoration, and Watershed Management

Two-thirds of the land area in Pingtung County is hilly area, and there are 71 rivers with potential debris flow torrent. Some of the slopes are classified as environmental hazard areas. To ensure the safety of surrounding villages, stabilize water resources, and minimize ecological disturbance, the County Government restores rivers with potential debris flow torrent. The County Government is also using ecological ways to stabilize slopes, such as rock gabions, stone masonry, and sandbags, which can reduce the use of reinforced concrete by 80%. In addition, the County Government has set up "Designated Soil and Water Conservation Area" in areas that need to strengthen soil and water conservation measures and maintenance to accelerate the stabilization of dangerous areas as soon as possible.

The County Government plans to clear 5,000 meters of river channels and 600,000 cubic meters of sediment each year. In 2023, the County government cleared 6,570 meters of river channels and 700,000 cubic meters of sediment. The County Government also promotes the management of vulnerable and high-risk slopes in Designated Soil and Water Conservation Area (including inclusion, exclusion, and management review). In the same year, the County Government designated 2 Soil and Water Conservation Area (watershed in Changle Village of Manzhou Township, and lower watershed in Changle Village of Manzhou Township). The County Government has completed a comprehensive review of the "No.025 and 026 Debris Flow Designated Soil and Water Conservation Area" in Zhukeng Village of Shizi Township, and a long-term soil and water

conservation plan for watershed in Changle Village of Manzhou Township. In the future, the County government will continue to proactively seek funding from the Ministry of Agriculture to implement a comprehensive disaster prevention and control plan, including disaster prevention and control of debris flow, conservation and management of Designated Soil and Water Conservation Area, and conservation of reservoir catchment areas, to prevent from flash floods and landslide disasters.

5. Strengthening Endangered Species Conservation and Creating Friendly Habitats

To reduce the impact of human economic activities on the habitat and reproduction of wildlife, and to protect the rich ecological resources and environment, the County Government cooperates with the Forestry and Nature Conservation Agency, Ministry of Agriculture, to promote friendly farming and ecological service payment projects in the habitat of the endangered and important species "Eastern grass owl" since 2022. With a total of 55.35 hectares of friendly farming area, the population of Eastern grass owl is increasing.

The County Government has also cooperated with Highway Bureau of Ministry of Transportation and Communications, Kenting National Park, terrestrial crab experts, and local NGOs to establish the first continuous "ecologically sustainable Kenting land crab corridor" in Taiwan in Hengchun area, which has the highest diversity of terrestrial crabs in the country. This will reduce the number of spawning mother crabs that are killed when crossing the roads during migration. As of now, a total of 184 culverts have been built on the corridor, with a total length of about 920 meters. The County Government will continue to monitor and adjust the measures as needed in the future to provide terrestrial crabs with a friendly breeding area.

In addition, the County Government cooperated with National Pingtung University to protect a nearly 100-year-old rain tree next to the school. The school provided the campus and moved the wall inward. The government changed the location of the road to provide the old tree with a safe growing space. At the same time, a mini ecological park has been established at the site to maintain the ecological environment and protect the common memory of the local people.



Monitoring friendly-farming farmland and perch



Continuous terrestrial crab corridor



Chapter 5 | Strategy and Action

Taking root in a sustainable homeland and
promoting a net-zero lifestyle

To achieve the goal of net-zero emissions by 2050, it requires the involvement of all people, such as changes in lifestyle and behaviors. Consequently, the County Government takes root in education to promote a sustainable home for all people in their daily lives, and create a variety of learning spaces to fulfill lifelong learning. Moreover, regulations are being set to ensure fair development of decision-making under the vision of net-zero, as the commitment to "SDG 4 Quality Education" and "SDG 16 Peace, Justice and Strong Institutions".



In response to the spirit of sustainability, Chunri Township got the first silver-level certification in Pingtung County with the goal of "Spring Green Living."

Chapter 5 | Strategy and Action

Taking root in a sustainable homeland and promoting a net-zero lifestyle



Specific Targets of the Current UN Sustainable Development Goals in the County



Specific Targets of the Current UN Sustainable Development Goals in the County

1. Promoting Food and Agriculture Education and Food Waste Reduction

Pingtung County is full of various and abundant agricultural resources. In order to show the advantages and increase public support for local agriculture, the County Government hosted "Pingtung Tropical Agriculture Expo" from Chinese New Year to the 228 holidays. The expo features eye-catching coleus rice fields with different themes every year. Visitors can take photos and learn about rice growing, coleus rice varieties, and cultivation techniques. The Expo also combines traditional agriculture with modern technology to create large-scale landscape art. The park also incorporates elements of flowers, vegetables, rice, fruits, grains, and other crops to create large-scale landscape art to present diverse agricultural and cultural characteristics in the County, including agriculture, forestry, fisheries, livestock, animal welfare, leisure, Hakka, indigenous, and rural communities. During the event, various themed areas can provide a variety of food and agriculture education and fruit picking experiences, allowing visitors to learn knowledge and have fun.

Since 2019, the County Government has promoted food and agriculture education policies and proactively developed different promotion mechanisms to make people understand its meaning, including:

(1) Guiding 5 legal recreational farms as demonstration farms to promote food and agriculture education. The County Government assists these farms in adjusting their menus, creating guide instructions, and producing promotional materials to introduce local agricultural products, implementing the concept of "from farm to table."

(2) Hosting food and agriculture education workshops to train food and agriculture education promotion talents. The County Government continues to train elementary and junior high school teachers, recreational farms, agricultural associations as pre-service teachers.

(3) Producing a food and agriculture education map and recipes of the County. The County Government uses interesting illustrations and texts to increase public interest in food and agriculture education. The information is put

on the website of the County government and available for the public, which strengthens the concept of local production and consumption to fulfill food and agriculture education in a simple way.

To promote the concept of food waste reduction and implement environmental education into people's daily lives, the County Government held a cooking competition with the concept of reducing food waste, encouraging more chefs and the public to become aware of the seriousness of food wasting. It also continues to work from communities and schools to raise the public's awareness of food waste reduction, low-carbon diets, and net-zero green living to contribute to the planet with practical actions.



Organize the first county-wide cooking recipe and teaching program competition with the concept of reducing food waste

2. Taking root in Environmental Education

To create a high-quality environmental education city and countryside in Pingtung County, the County Government has proposed 9 action plans, including "public consensus, pollution prevention, nature conservation, public participation, community development, low-carbon tourism, green industry, diverse culture, fairness and justice". These plans aim to continuously establish equal and sustainable environmental values among the public and to implement them in daily life with the right attitude.

Pingtung County Food and Agriculture Education Promotion Demonstration Farms	1	Homchi Organic Leisure Farm
	2	Lansin Pepper Sightseeing Farm
	3	Mingchuan Ecological Leisure Farm
	4	Angel Garden Leisure Farm
	5	A-Shin Choco Farm



Host a Michelin food waste reduction cooking competition

The County government is also actively promoting public and private special places to become environmental education venues. As of now, 11 places in the County have been certified. These venues provide opportunities for people to "learn in the environment" and to improve their environmental knowledge and civic literacy.

The County Government is also deeply involved in the "Community Environmental Resources Survey and Improvement Plan" and the "Environmental Protection Basic Lesson Promotion Plan". Through resource inventory and improvement,

these plans assist communities in exploring and solving environmental problems. In 2022, 11 communities applied for these plans, which is the most in the country.

The County Government also encourages all units to participate in the "National Environmental Education Awards" to show Pingtung's soft power in environmental education. In the 8th National

Environmental Education Awards, Pingtung County won 1 grand prize and 3 excellent prizes. The grand prize was awarded to Pingtung Branch of Forestry and Nature Conservation Agency, Ministry of Agriculture. The excellent prizes were awarded to Evergreen Lily Elementary School (school group), Dongpian Community Development Association (community group), and Taiwan Dive Center (private enterprise group).

Pingtung County Environmental Education Facilities			
1	Shuangliu Nature Center	7	Pingtung County Green Energy Ecological Sustainable Education Park
2	National Museum of Marine Biology and Aquarium Backstage Facilities	8	Lide Community
3	Ever-Spring Eco-Farm	9	Haifeng Wetland Environmental Education Site
4	Kenting National Park	10	Dongyuan Tribe Environmental Education Center, Mudan Township
5	Dapeng Bay National Scenic Area Constructed Wetland	11	TSC Dong Hai Feng Agricultural Circulation Park
6	Liugdui Hakka Cultural Park		



Dongyuan Tribe Environmental Education Center



A visit to Haifeng Wetland and an environmental education course

3. Developing schools with distinctive features

To cultivate students' innovative thinking, problem-solving skills, and all-dimensional development, Pingtung County has encouraged schools to develop distinctive features since 2011. By integrating local characteristics and community resources, and using systematic curriculum and teaching activities, the County aims to enhance students' ability to adapt to modern life and face future challenges.

In the academic year of 2022, a total of 15 schools have been approved to carry out featured education. For example, Wandan Junior High School focuses on international education and has partnered with the Japanese Kyoai College. Through video conferencing, students are able to introduce themselves in English, exchange cultural information between the two countries, and design quiz games. This has helped to increase students' interest in learning English and broaden their international horizons. Fangliao High School, on the other hand, focuses on energy and uses solar and wind power to develop green energy courses. The school has also proactively participated in various workshops and competitions to design renewable energy projects, and was awarded the Excellence Award for the Promotion of Energy Education in 2022.

4. Promotion of community colleges (including lifelong learning in all fields)

Pingtung County has two community colleges, Pingbei and Pingnan, which promote community development and cultivate the ability of citizens to participate in public affairs.

Pingbei Community College is based on the educational philosophy of "liberation of knowledge, revitalization of the community, civil society, and lifelong learning." It has been deeply rooted in the

lifelong learning field of Pingbei for over 20 years. In recent years, it has focused on how to apply the learning outcomes to local community. It has launched various learning courses in the form of humanities and nature under Mount Dawu, which has led teaching lecturers, service volunteers, students, and the people to pay attention to environmental and ethnic culture issues.

Pingnan Community College, on the other hand, offers learning courses that meet the needs of community-specific development in remote communities, such as the return training course for tour guides at Guanyin Nose in Xuhai, and the promotion of the transformation of traditional local agriculture into friendly agriculture. By setting up "community learning points," it encourages rural people to participate in learning and work together to promote the carrying forward of local cultural heritage and community development. In 2022, the two community colleges offered a total of 623 courses, with a total of 9,562 people participating.

5. Implementation of diversified learning channels

To encourage and promote lifelong learning for the citizens, Pingtung County is working hard to shape a learning city. It has connected community colleges, indigenous tribal colleges, and labor colleges to promote lifelong learning in all fields and provide a good and unique learning environment. In response to the global trend of lifelong learning, the county has broken



Establish a lifelong learning park to provide a new co-learning environment

down departmental boundaries and cross-domain integrated the curriculum and learning resources of lifelong learning organizations under the jurisdiction of the Department of Education, Department of Agriculture, Social Affairs Department, Cultural Affairs Department, Hakka Affairs Department, Department of Indigenous Peoples, Labor and Youth Development Department, and Environmental Protection Bureau. The Pingtung County Lifelong Learning Park was established at Tangrong Elementary School, which serves as an integrated platform for information on lifelong learning courses in all fields. This provides citizens with more convenient access to a variety of lifelong learning resources and channels.

6. Promotion of low-carbon sustainable home certification at all levels

To lead communities into the global sustainable development trend and achieve the Sustainable Development Goals, Pingtung County is guiding citizens to voluntarily implement low-carbon measures. The County is also providing guidance to communities to participate in low-carbon certification from through a bottom-up approach. For example, in August 2022, the County helped the Spring Township Office to obtain the first silver-level certification at the township level. As of October 2023, the County has obtained five silver-level certifications (including one at the county-level, one at the township-level, and three at the village-level), 72 bronze-level certifications (covering all 33 townships in the county), and 265 villages have successfully registered. These efforts are working together to build an environmentally sustainable city.

7. Legal basis for net-zero transition

To ensure that public and private entities have efficient, responsible, and transparent systems to follow in the context of sustainable

development and net-zero transition, and to ensure that decisions at all levels respond to public opinion, Pingtung County Government has announced "Pingtung County Green Building Autonomy Act", "Pingtung County Shared Mobility Development and Management Autonomy Act", and "Pingtung County Green Energy Development and Management Autonomy Act" after multiple rounds of discussions and consultations. The County Government is also considering adjusting and amending the content of the regulations in light of actual implementation conditions.

(1) Pingtung County Green Building Autonomy Act

To create a green building environment, improve the quality of life, and achieve energy conservation and carbon reduction, the Pingtung County Government promulgated the "Pingtung County Green Building Autonomy Act" on January 1, 2016. In response to the hot climate and aging population, the County also promoted the "Pingtung House" program, which encourages building owners to install solar panels and create 3-meter deep-green balconies. Pingtung County Environmental Protection Bureau, as a pioneer in energy conservation and green energy, has built its own office building to meet 9 major indicators, including biodiversity, greening, site water conservation, routine energy saving, carbon dioxide reduction, waste reduction, indoor environment, water resources, and wastewater and garbage improvement. This makes it the first gold-level green environmental protection bureau building in the country.

(2) Pingtung County Shared Mobility Development and Management Autonomy Act and Business Management Regulations

Transportation accounts for about one-third of the County's carbon emissions. In addition to building a comprehensive public transportation system, the County Government has also enacted the

"Pingtung County Shared Mobility Development and Management Autonomy Act" on November 23, 2021, and the "Pingtung County Shared Mobility Business Management Regulations" on February 7, 2022. This makes the County the first non-special municipality administrative region in Taiwan to enact a shared mobility autonomy act. The County government hopes to establish a sound system and a friendly operating environment for shared mobility businesses to attract investment and provide a legal framework for shared mobility businesses by enacting this autonomy act. This will indirectly help to increase the use of public transportation and green transportation, and fill in the gaps in public transportation coverage.

(3) Pingtung County Green Energy Development and Management Autonomy Act

The Pingtung County government is working to achieve net-zero emissions through both energy

conservation and renewable energy generation. To address the limitations of central regulations, the County Government promulgated the "Pingtung County Green Energy Development and Management Autonomy Act" on March 1, 2022, and established the Green Energy Development and Management Initiative. The Initiative is composed of representatives from relevant government agencies, experts, scholars, and green energy industry representatives. The Initiative will jointly review the county's green energy development policies and facility management regulations, as well as the collection, deposit, and use of the green energy development management fund. This will ensure that every dollar is used effectively to increase the County's green energy capacity.



Wind Turbine Park was built in Fonggang Community, Fangshan Township, to create low-carbon recreation environment.



Chapter 5 | Strategy and Action

Comprehensive Care and Peaceful Home in Pingtung

From infants, children, to the elderly and vulnerable groups, all are the subjects of our protection. Starting from the "people", the County proactively promotes friendly child care and supportive services for vulnerable households. It also integrates existing long-term care resources, medical and health care, and social welfare measures, closely weaving a multi-generational comprehensive care network, becoming a solid backing for protecting the citizens. Since women and youth are the backbone of Pingtung's advancement, the County Government implements the value of gender equality and introduces diversified and pragmatic policies to meet the needs of women from all walks of life. It also improves the employment and entrepreneurship counseling mechanism to attract young people to return home and revitalize local economy, in order to achieve the goals of "SDG 1: No Poverty", "SDG 3: Good Health and Well-being", "SDG 5: Gender Equality", and "SDG 8: Decent Work and Economic Growth".



The Hengchun Social Welfare Hall is designed with the ancient place name "Ljungkiaw Road" as its design concept. It preserves a century-old Japanese dormitory, infusing cultural charm, and exhibits unique social welfare vitality!

THE GLOBAL GOALS
For Sustainable Development



Chapter 5 | Strategy and Action

Comprehensive Care and Peaceful Home in Pingtung



1. Expansion of the scope of recipients of occupational accident relief funds

Based on a good working environment and comprehensive protection, Pingtung County was the first in the country to introduce the "Pingtung County Occupational Accident Relief Fund Autonomy Act" in 2017. The scope of application was expanded from general workers to agricultural, forestry, fishing, and animal husbandry workers, and to all workplaces, so that workers in all industries can obtain more protection to help them overcome the physical and mental difficulties after the disaster. In 2022, a total of 285 cases of occupational accident claims for recognition were received from the public.

In view of the large number of fishing boats and rafts in Pingtung County (1,232 fishing boats and 1,363 rafts), and the high risk of sea operations



Employment Promotion Activities for New Immigrants

for fishermen, the "Pingtung County Fishermen's Marine Accident Relief Fund Issuance Guidelines" were specially stipulated to stabilize the lives of fishermen and their families who have been in distress, so that they will not be immediately in a difficult situation. This system can also complement the "Pingtung County Occupational Accident Relief Fund Autonomy Act". As of the end of 2022, 31 applications have been approved.

2. Promotion of employment for specific groups and disadvantaged job seekers

To help new immigrants, rehabilitated protected persons, middle-aged and elderly people, living assistance households, and special circumstances women who are willing to work and have the ability to work, the County Government has promoted the "Promoting Employment for Specific Groups and Disadvantaged Job Seekers Program", providing individualized services to eliminate employment barriers. Employment promotion activities are also held to help participants to re-identify and understand themselves, stimulate their motivation and willingness to work, and assist them in successfully and stably finding employment. In 2022, a total of 5 employment promotion events were held, with 127 cases successfully referred to vocational training. In addition, 505 people received employment service consultations to improve their employment skills and create new opportunities in life.

3. Promotion of employment services for people with disabilities

Some people with disabilities are willing and able to work, but are unable to work independently in the competitive employment market. The County Government uses job shadowing to help people with disabilities understand the scope of job vacancies, and provides in-depth and continuous professional workplace support services according to individual needs, such as improving the work environment, providing employment-related assistive devices, and work adaptations. This effectively helps people with disabilities overcome their disabilities and improve their work efficiency. In 2022, a total of 73 people were successfully placed in employment, of whom 61 were able to maintain employment for more than 3 months. In the past five years, a total of 338 people have been successfully placed in employment, of whom 239 have been able to maintain employment for more than 3 months.

In addition, the County Government requires organizations with a certain number of employees to employ people with disabilities, encouraging employers to release job opportunities and employ people with disabilities. This allows people with disabilities to showcase their talents, integrate into society, and arouse public awareness and employers' recognition of their work ability, ensuring the employment rights of people with disabilities. According to the latest data, as of July 2023, the number of people with disabilities that should be employed is 985 according to regulations (665 in public agencies and 320 in private units). The actual number of people employed is 1,788 (1,037 in public agencies and 751 in private units). The over-employment rate is 81.83% in the County.

4. Implementation of the Poverty Reduction Plan for Vulnerable Families

(1) Savings to Reduce Poverty - "Future Education and Development Account for Children and Youth"

To reduce the intergenerational poverty cycle of children and youth, the "Future Education and Development Account for Children and Youth" was launched in June, 2017. The account is aimed at children and youth who were born on or after January 1, 2016 and are registered as low-income, lower-middle-income households, or long-term placed children and youth. Parents are required to make monthly deposits, and the government provides matching funds. The government also provides financial education and family services to support the account holders. The funds in the account can be used for future higher education, vocational training, entrepreneurship, and career development for children from vulnerable families. This helps to prevent them from falling into a cycle of low education, low skills, and low social participation as they grow up. As of the end of June 2023, the number of account holders in Pingtung County is 2,973, with an account opening rate of 59%.

(2) Reducing Poverty through Education - "Joint Scholarship for Poverty Elimination and Self-reliance Program"

To help economically challenged students continue their education and avoid being forced to drop out of school and enter the workforce due to family economic factors, Pingtung County has been running the "Joint Scholarship for Poverty Elimination and Self-reliance Program" in conjunction with private resources since 2011. The program provides financial assistance to disadvantaged students according to their individual needs, such as registration fees, rent, transportation, textbooks, and tutoring. This

helps them continue to accumulate education and human capital, and improve their academic credentials and self-development. To date, the program has assisted 1,798 economically disadvantaged students, and 255 of them have successfully completed their education, including 12 masters, 116 bachelors, 21 associate degrees, and 106 high school diplomas.

(3) Employment to Reduce Poverty - "Military Destitution Policy"

To improve the actual income of economically challenged households and break the cycle of poverty, the County Government has partnered with the National Armed Forces' recruitment program to encourage students from these households who are about to graduate from high school or college or who meet the eligibility requirements to apply for the volunteer service. Under the provisions of Article 15-1 of the Social Assistance Act, the County Government provides assistance to "eliminate poverty through military service". This is to recruit talents for the military, provide stable income and career development, and transform the disadvantaged environment. Since the program was launched in July 2019, the number of participants has reached 303, and as of 2022, 261 people are still in service, and 197 people are still registered as social welfare recipients. The County Government will continue to hold seminars to help graduating students and their parents understand volunteer military service.

(4) Innovative combination of "Youth Savings Account" to develop a win-win poverty reduction program

In 2022, to help disadvantaged families become self-reliant, Pingtung County worked with the Ministry of Education and the Ministry of Labor's "Youth Education and Employment Savings Account Scheme" (hereinafter referred to as the "Youth Savings Account") to launch the "Employment to Eliminate Poverty, Save the Future" program. The program provides low-income and lower-middle-income high school

graduates with the opportunity to learn and explore the workforce, enabling participants to have stable income and savings. At the same time, it trains outstanding talents for local enterprises to stay and develop in the County, alleviating the labor shortage problem. The government's social welfare resources and social workers also provide support and companionship to help disadvantaged families turn their lives around.

To date, 16 students have passed the program, and 8 have successfully found employment and continued to be registered as social welfare recipients, creating a "win-win situation" for "youth employment", "enterprise recruitment", and "social welfare companionship". In the future, the County Government will cooperate with schools to assist students who have registered for the Youth Savings Account and are low-income or lower-middle-income. Social workers will provide case care services, counseling, and social welfare status review.



Conference to Discuss the "Employment to Eliminate Poverty, Save the Future Program"

5. Promoting Household Disaster Prevention Mechanisms

(1) Promoting the Installation of Home Fire Alarms

To reduce the number of fire accidents, Pingtung County Government is proactively promoting the installation of home fire alarms (hereafter referred to as "fire alarms") to detect fires early

and increase the time for residents to escape. As of the end of 2022, a total of 219,537 households in the County have installed fire alarms, with an installation rate of 99.7%. The government has also provided subsidies for the installation of fire alarms for high-risk groups in the County, including residents of narrow alleys, areas with insufficient water supplies, the elderly living alone, people with disabilities, and low-income households. The installation rate for these groups is 100%, ensuring the safety of vulnerable populations.

In the future, the government will continue to visit residents and promote the importance of fire alarms to increase the willingness of citizens to install them. The government will also conduct a rolling review of the subsidy recipients and strengthen fire rescue drills for residents living in narrow alleys to ensure the fire safety of all people.

Considering that traditional fire alarms require audible and visual alarms to remind people to evacuate and call for help, Pingtung County Bureau of Fire and Emergency Services has partnered with public and private sector partners to develop a new interconnected fire alarm that uses AI and IoT technology to create a "cross-domain multi-channel reporting platform." When the device detects an abnormality and confirms it through intelligent interpretation, it automatically sends the accident location and resident information to the security or fire control center to secure the golden time for rescue. This plan was even recognized as an "Excellent Team" in the 2022 Presidential Cup Hackathon, and it is expected to expand to 100 new fire alarm pilot sites by the end of 2023. The government hopes to use smart sensing to improve household safety and wellbeing.

(2) Securing the Home Safety for the Elderly Living Alone

To protect the safety of the elderly living alone,



Evacuation Drill in Narrow Alleys

Pingtung County Government is using smart technology to promote emergency rescue notification system services. These services provide remote emergency care for the elderly living alone at home or outdoors. In the event of a fall or medical emergency, they can use a wireless peace machine to receive assistance from a 24-hour service platform. In 2022, the government assisted 387 people in using the system.

The government has also established the "Pingtung County Government Plan for Caring for the Elderly Living Alone." This plan establishes indicators and crisis levels for assessing the needs of the elderly living alone. The government provides care services that meet the needs of the elderly through public-private partnerships. This ensures that the elderly living alone receive proper care to reach the goal of aging in place.

6. Expanding Protection through Micro-Insurance

To enhance the basic living care of vulnerable households, the Pingtung County Government has partnered with Nanshan Life Insurance Co., Ltd. to launch a "Micro-Insurance: Group Insurance for Low-Income and Lower-Middle-Income Households" since 2016. The government serves as the agent for the insurance policy, providing death and disability benefits to vulnerable people. Since 2020, the government has added a group insurance model and target group. In collaboration with the Nanshan Life Insurance Foundation and Nanshan Life Insurance Co., Ltd., the government has proactively insured "Group Micro-Injury Insurance" for low-income households aged 15 to

75, and people with mild to moderate disabilities aged 15 to 60. In 2021, the program was expanded to include medium or low-income people aged 15 to 75. As of the end of 2022, a total of 45,568 people has been insured. Those who previously applied for "Micro-Injury Insurance" through individual applications will be assisted to transfer to "Group Micro-Injury Insurance" at the end of the policy term to ensure that the protection for vulnerable people without interruption.

7. Implementation of Community-Based Welfare - Establishment of Regional Social Welfare Service Centers

Due to its narrow and long geographical shape and different geographical characteristics, Pingtung County has a limited and scarce supply of social welfare services for vulnerable families. To improve social welfare services, the County Government has implemented the "Implementation of Community-Based Welfare - Establishment of Regional Social Welfare Service Centers" plan to ensure the balanced development of regional resources and to root social welfare services in the community. This plan aims to improve the timeliness, accessibility, and continuity of services for users.

Seven social welfare comprehensive centers have been gradually established in Pingtung County, including Jiuru Township, Yanpu Township, Neipu Township, Chaozhou City, and Hengchun Township. These centers provide comprehensive care services for people of all ages, from infants, children, and women to the elderly and people with disabilities. The services include protective work, economic assistance, support for vulnerable families, the construction of regional service networks, counseling and promotion, parent-child interaction spaces, parenting counseling, women's empowerment, and childcare. These centers provide services close to home to help residents of all townships and vulnerable groups use existing social resources to prevent family

crises and overcome difficulties. In 2022, a total of 350,000 people received services from these centers. The government will continue to promote these centers and fill the gaps in demand to establish "seamless service."



Opening of the Neipu social welfare comprehensive center



Building a Cross-Generational Social Welfare System to Protect the Happiness for People of All Ages

8. Improved Rental and Reimbursement Services for Assistive Devices

Assistive devices are essential tools for people with disabilities and the elderly to maintain their independence and autonomy. To meet the long-term care needs of people with disabilities, Pingtung County Government has strengthened its long-term care assistive device services. The County has established two assistive device resource centers that provide assistive device lending, repair, recycling, application, and assessment services. It has also established 14 assistive device service centers, 13 assistive device service convenience stations, and 2 assistive device mobile service vehicles to build an integrated assistive device resource network and expand the accessibility of services. In 2022, the County Government enhanced its online appointment system for assistive devices. In addition to repair, assessment, and recycling services, the system now includes new features

such as a list of assistive devices, images, daily inventory update, and instructional videos on how to use the devices. This allows people in need to receive assistance immediately.

To reduce the financial burden on the public and simplify the application process for subsidies, Pingtung County Government has fully delegated the task of claiming subsidy funds to contracted vendors for long-term care assistive device services since May 1, 2021 (this does not apply to home barrier-free improvement). On April 1, 2023, the government launched a new reimbursement mechanism for assistive device purchases. Under this mechanism, people who purchase assistive devices (including home barrier-free improvement) from assistive device vendors need only pay the self-pay amount. The government subsidy does not need to be paid in advance. Instead, the assistive device vendor will directly apply to the County Government for the subsidy on behalf of the customer. This is a convenient and thoughtful service. As of September 30, 2023, the County Government has signed contracts with 387 assistive device reimbursement vendors (including 139 stores). Of these, 123 vendors (including 55 stores) provide assistive device sales and home barrier-free improvement; 12 vendors only provide home barrier-free improvement; and 7 vendors provide rental and purchase of assistive devices.

9. Integrating Long-Term Care into Education to Promote Intergenerational Learning

In response to the rapid aging of the population and the increasing demand for long-term care services, Pingtung County was the first in the country to integrate long-term care services into the middle school technical education curriculum in 2015. Through the "life education" curriculum, the County aimed to improve attitudes towards the elderly and promote understanding of aging and long-term care. In the second semester of the 2022-2023 academic year, a total of 40 classes and 753 students took the course.



Assistive Device Mobile Service Vehicles

The County Government has also proactively partnered with social welfare organizations and medical institutions to offer pre-employment training programs to cultivate young students as seeds for the long-term care industry. The goal is to help these students develop a foundation in their homes, deepen their knowledge and skills in their communities, and eventually contribute to the society.

The County Government has also collaborated with experts to compile the "Pingtung County Elderly Long-Term Care Service Teaching Resources Manual" in 2021. This manual is used by junior high and elementary school teachers and administrators to develop and implement teaching guidelines and materials for long-term care courses. The County Government also pioneered the establishment of the first long-term care experience space classroom in the country, based on the concept of "home." This classroom provides students with a learning environment that combines knowledge and experience. The goal is to help students develop empathy and take action to create a more age-friendly society. In December 2022, the County Government held the "Junior High School Technical Education Career Group Experience and High School Education Expo." The expo included a special section on long-term care integrated into middle school technical education. This section showcased the County Government's efforts to incorporating long-term care as part of technical education and the students' daily learning outcomes.



Specific Targets of the Current UN Sustainable Development Goals in the County

1. The First County-Level "Long-Term Care Bureau" in the Country

To create a city of hope and happiness where people can age with peace of mind, Pingtung County established the first county-level "Long-

Term Care Bureau" in the country in 2023. The bureau is responsible for developing a long-term care development blueprint for the county and implementing six key initiatives and seven innovative services to make long-term care services more professional and comprehensive.

- 6 Key Initiatives**
1. Local Talent Cultivation
 2. Precision Long-Term Care Services
 3. Social Welfare Integration
 4. Medical and Long-Term Care Collaboration
 5. Professional and Innovative Care
 6. Public Awareness Campaigns

- 7 Innovative Service Programs**
1. Establishment of the Pingtung County Indigenous Long-Term Care Service Integration Research and Development Center
 2. Establishment of the Dementia Care Research and Development Center
 3. Promotion of Open-Ended, Unfenced Day Care Models
 4. Training of Professional Caregivers for People with Swallowing Difficulties
 5. Hosting Caregivers' Self-Management Workshops
 6. Award Ceremony and Sports Day for Long-Term Care Professionals
 7. International Conference on Long-Term Care Development Strategies



The first county-level "Long-Term Care Bureau" in the country



The 2023 Asia-Pacific Long-Term Care Development Strategies International Conference

2. Expanding Care Centers to Realize the Shared Aging Blueprint

(1) Building Community Care and Support Centers

In recent years, the population structure in Pingtung County has gradually aged, and the County entered an aging society in 2015. To provide the elderly with a dignified and happy life at old age and to allow them to age in place in the community, the County has been promoting the "one center in each village" initiative since 2015. This initiative provides services such as health promotion activities, shared meals, care visits, phone calls, referrals, and consultations. Currently, there are 399 community care and support centers in the county, with a deployment density of 90.07% and a service coverage rate of 100%.

In addition, the County has introduced a variety of preventive and delay-of-disability care plans to assist care centers in upgrading and transforming into "neighborhood long-term care centers." This has effectively improved the physical and mental health of the elderly and expanded their social participation. As of August 2023, there have been 269 neighborhood long-term care centers expanded, with a village deployment rate of 60.72%.

(2) Promoting Care for Vulnerable Groups

To help people with disabilities acquire self-care skills, health promotion care, interpersonal relationships and social skills, and community adaptation training care services in familiar communities, the County Government has been continuously establishing community-based day care service centers for people with disabilities since 2015. To date, 24 centers have been established, which is the most in the country. These centers can serve 360 people with disabilities.



The inauguration of the Yongfeng Community Care Center in Zhutian Township



The establishment of the Xin'er Community Care Center in Yanpu Township

The County Government also provides transportation services for people with disabilities through the "Rehabilitation Bus Transportation Service for People with Disabilities". This service provides a friendly and accessible vehicle network for people with disabilities to travel to and from various community-based day care services, childcare (nursing) institutions, care centers, hospitals for medical treatment, and tourism experiences. The county has a total of 103 rehabilitation buses, which allow people with disabilities to receive high-quality services in the areas of education, employment, medical care, health and leisure, and social participation.

In addition, with the vision of creating a friendly and hopeful city, the County Government has joined forces with the Ping-An Foundation for Social Welfare and Charitable Enterprises to implement the "Pingtung Friendly Restaurant Program". The county currently has a total of 211 friendly restaurants, which are distributed in 16 townships, including Donggang Township, Hengchun Township, Neipu Township, and Taiwu Township.

In 2022, the County Government launched an accessible website that provides information on a variety of cuisines, different types of friendly restaurants in the Pingtung area, and detailed friendly information and photos of the restaurants, including the restaurant entrance, aisle layout, dining space environment, accessible toilets, and accessible ramp slope calculation. The County Government has also trained people with disabilities and the general public as special envoys to visit each restaurant for inspection and promotion, and to transform their personal experiences into friendly information. In the future, the County Government plans to launch a "Friendly Business Empowerment Activity" to encourage more businesses to join the ranks of friendly venues.

(3) Improving the Quality Care Mechanism for the Elderly

To realize the goal of local aging and active aging for the elderly, the County Government has set a goal of "one day care center per school district" and has continued to increase the number of day care service centers. To date, 59 daycare centers have been established (including 4 small-scale multi-functional, 4 dementia-type day care, 4 disabled day care, and 2 micro-scale day care), the most in any county outside the six special municipalities, with a school district coverage rate of 92.5%.

The county government is also actively setting up "Healthy Aging Fitness Clubs" where exercise instructors provide consulting services to help the elderly develop the right knowledge about exercise and the habit of regular exercise, which can help to delay disability. Currently, there are 10 Silver Fitness Clubs in the County, and more will be added in the future, such as at the Chercheng Township Health Center and the Donggang Social Welfare Comprehensive Hall, to provide a better quality exercise and care environment for the elderly.

In response to the growing number of people with dementia, and to reduce the burden on family caregivers of people with dementia, the County has established 36 community-based dementia service centers. These centers provide convenient and accessible services to help delay the progression of dementia and disability in the elderly. The County has also established 10 dementia care centers, which provide rapid diagnosis, counseling, referral, and medical assistance to people with dementia and their family caregivers. In addition, the county has established four dementia group homes, located in Chaozhou Township, Neipu Township, and Pingtung City. These homes provide a "home-like" care environment for people with dementia, with family members accompanying them during their stay. According to the Ministry of Health and Welfare, the County's dementia diagnosis rate was 76.87% in December 2022, which has exceeded the target of 70% or more of people with dementia receiving diagnosis and services by 2025.

To ensure that the elderly receive dignified and humane care, the County has created the first dementia-friendly community in Taiwan, the "Zhtian Lezhi Friendly Park". Local communities work together to protect the elderly, allowing "seniors" to live a happy and peaceful life.

In 2023, the County will continue to focus on the four elements of "friendly residents, friendly organizations, friendly spaces, and friendly participation". It will recruit 10 dementia-friendly



The open ceremony of the Yuguan Day Care Service Center in Jiadong Township

organizations and 230 dementia-friendly angels. The county will also implement the open dementia care concept, starting with understanding the needs of people with dementia and their caregivers, so that they can receive support, live, learn, and safely enjoy activities in the community. The Zhtian Lezhi Friendly Park is a groundbreaking initiative that is helping to create a more inclusive and supportive environment for people with dementia and their caregivers. The County's efforts to promote dementia-friendly communities are a model for other jurisdictions around the world.

(4) Diversity and Integration: Developing Holistic Care Services

As Taiwan enters an aging and low-fertility society, it is imperative to promote holistic care services. In order to realize the vision of intergenerational living, the County Government has revitalized the vacant space of the old Jiuru Elementary School to create the County's first "Jiuru Holistic Care Park", which is based on the service concept of "all-age community sports and parenting support".

The first floor of the park houses a day care center that provides living care and day care services for the elderly. The second floor is a wellness center that offers a variety of group exercise classes led by professional trainers and physical therapists, such as "machine fitness class", "strength aerobics class", "outdoor fitness class", "circular exercise class", and "gentlemen fitness class". In addition, "healthy aging nourishment lectures" are held in conjunction with the concept of nutrition, helping the middle-aged and elderly to acquire health knowledge in a fun and educational way. The center has also hosted "fun in baking", "warmth in wood carving", "specialty handcrafts", "smartphone master" and other special courses to build interpersonal support networks in the journey of aging. In 2022, the center offered 661 classes and served 4,376 people.

The third floor is a parent-child companionship base that introduces a variety of indoor play spaces such as sandpits, slides, and ball pits, as well as a library with over 3,000 picture books. The center integrates social workers and childcare staff to regularly hold special parent-child activities, early childhood development screening, parenting counseling, parenting education, and early intervention referral services to encourage families to have children. In 2022, the center held 107 parent-child activities, parenting lectures and gender education courses, 9 early childhood development screenings, and 19 promotional activities, serving a total of 7,526 people. The outdoor park has also been transformed into a unique park, with overall design that meets the needs of accessible and inclusive use. The park has been awarded the "Gold Award" in the "Best Environmental Culture Category" of the 2022 National Excellent Construction Award.



A nutrition lecture



The Jiuru Comprehensive Care Park was awarded the "2022 National Excellence in Construction Award Gold Award"

(5) Youthful Vigor for Senior Citizens Taking Action

To cultivate community service capacity and promote the localization of older adults, the county government has taken the initiative to launch the "Youthful Vigor for Senior Citizens Mobile Service Vehicles" and "Healthy Aging Mobile Service Vehicles". Through a circuitous approach, the vehicles enter communities where new or soon-to-be established care centers are located, providing diversified and multi-stage services, such as the revitalization of physical and mental functions, health promotion, and prevention and delay of disability care. The government also plays a training role, cultivating volunteer teams and introducing rich courses, so that the elderly can obtain social resources and participate in society in their familiar memories, realizing the "Wherever the mobile service is, health is there". The mobile service vehicles have also been driven into the county's only outlying township, Liuqiu Township, to provide regular parent-child activities, social welfare promotion, and senior citizen activities. By the end of 2022, the Youthful Vigor for Senior Citizens service has covered 33 townships, and has hosted 2,340 events in the past seven years, delivering more comprehensive care and feeling the sweetest warmth.

In 2023, to meet the expanding needs, the County Government has innovatively launched the "Mobile Gym" and "Repair Coffee Truck". The Mobile Gym is an upgraded version of the original Youthful Vigor Vehicle service, with a series of preventive and delaying courses tailored by the County Government. Teachers lead less physically demanding courses to improve living self-care ability and quality. The Repair Coffee Truck was launched by the County Government, recruiting 20 volunteers from the "Youth-Elderly Harmonious Service Team" to join the community co-living and circular economy volunteer service, using professional skills to assist the elderly and disadvantaged families to repair their homes, providing a friendly and safe living environment.



The "Youthful Vigor for Seniors Mobile Vehicle 2.0" provides a variety of health services



The Youthful Vigor for Seniors Mobile Vehicle - Mobile Gym



The Repair Coffee Truck

(6) Establishment of Senior Citizens' Learning Centers

In response to the aging society, the County Government, in cooperation with the Ministry of Education's senior education policy, has established senior citizens' learning centers to provide a happy learning space for middle-aged and elderly people aged over 55. A total of 34 senior citizens' learning centers (including 1 demonstration center) have been established in the county, covering all 33 townships of Pingtung, achieving the goal of "one senior citizens' learning center for each town".

In addition, the County Government has worked with the public and private sectors to promote senior citizens' work in cooperation with schools, town and city councils, fisheries associations, community development associations, and private organizations. Each contracting unit implements various courses on healthy aging-focused, self-planning, and contribution services, in combination with professional personnel and volunteer teams, based on the local characteristics and needs of the people in the area, to promote the learning and social participation of the elderly. In 2022, a total of 6,089 courses and events were held, with a total of 161,000 participants, to ensure the sustainable development of senior citizens' learning.



The opening of the "Men's Workshop - Timber Art" course (Pingtung County Senior Learning Demonstration Center)

3. Creating a Healthy and Friendly Environment

(1) Creating a Friendly Network for HIV and Tuberculosis Prevention

To eliminate HIV by 2030, the County Government has adopted a three-pronged prevention strategy: prevention, screening, and treatment. The government continues to promote HIV prevention to students, community members, and workplace employees, and to strengthen the topics of "avoiding discrimination and stigmatization" and "infection is unrelated to sexual orientation". In 2022, a total of 381 HIV prevention and general public awareness events were held, with over 43,000 participants. The government also continued to implement the "HIV Self-Screening at Home Program", provide free anonymous HIV testing at 33 township and city health centers, and establish 71 HIV health education and consultation centers to create a comprehensive, convenient, and private multi-channel screening system. The government hopes to establish correct HIV awareness in the general public, reduce discrimination against people living with HIV, and work together to achieve the 2030 HIV three zeroes (zero new infection, zero death, zero discrimination) vision.

The County Government also cooperates with the Ministry of Health and Welfare to achieve the goal of "Ten Years of Tuberculosis Prevention, Achieving Tuberculosis Elimination by 2035". The government takes an active approach to prevention, proactively screening mountain townships, economically disadvantaged people, and people over the age of 65, and conducting X-ray screening visits to diagnose early and reduce the risk of disease. In 2022, a total of 149 screening visits were conducted, with 13,000 people screened, and 22 tuberculosis cases were proactively discovered.

(2) Strengthening Disease Vector Mosquito Inspection and Removal

As the COVID-19 pandemic eases and border controls are relaxed, and with the severe dengue fever epidemic in Southeast Asia, the risk of dengue fever epidemics in Taiwan is relatively high. In order to fully prevent the risk of dengue fever epidemics, in 2022, the County mobilized the cleaning teams of 33 town and village administration centers, health centers, and established 45 mosquito eradication volunteer teams. Environmental Protection Bureau and Public Health Bureau personnel led the public to carry out disease vector mosquito breeding source inspection and health education, and jointly prevent the dengue fever epidemic. At the same time, the epidemic prevention level was upgraded, and the 33 town and village administration centers were asked to strengthen the work of disease vector mosquito breeding source removal and chemical prevention, and to deploy standby personnel during holidays or long weekends in response to the occurrence of emergency epidemics.

In 2022, a total of 6,280 hot spots were cleaned up, and 116 preventive chemical control sprayings were carried out. In addition, for villages with high positive rates and Buescher indexes of ovitraps, daily inspections of outdoor water storage containers were conducted, with a total of 59,584 water pooling containers removed, 6,238 sites treated with pesticides, and 3,682 positive water pooling containers found. In addition, disease vector mosquito removal "environmental cleaning day" events were organized in conjunction with town and village administration centers, village heads, and volunteers.



Strengthening environmental and chemical control work



Dengue fever prevention drill

4. Improving the Quality of Emergency Medical Services

Pingtung County is long and narrow, and it takes longer to transport patients to hospitals in some townships. In order to seize the golden hour of life-saving, the County Government has promoted the "Heart Protection LINE Group" and matched social resources. The County has deployed 12-lead electrocardiogram (ECG) devices on the ambulances of 36 fire stations. Patient data is transmitted to the hospital in real time via the Cloud platform, where it is diagnosed online by a professional doctor. This allows for early completion of pre-admission medical preparations. As of February 2023, the program has successfully provided services to 1,197 patients, of whom 122 were diagnosed with ST-segment elevation myocardial infarction (STEMI) and had their blood circulation successfully restored.

The County has also integrated 15 emergency responsibility hospitals in the County with Kaohsiung Chang Gung Memorial Hospital

to establish a 24-hours real-time wireless transmission Cloud consultation (transfer) platform. This platform is designed to help patients with stroke receive treatment within the golden hour. As of today, the platform has been used to consult and transfer 639 patients, transfer 601 patients to medical centers, accelerate information exchange for 243 patients, and remove blood clots in 158 patients after transfer.

5. Creating a Smoke-Free Environment and Strengthening Tobacco Control

In order to reduce the public's exposure to secondhand smoke, the county government is actively working to create a smoke-free environment. This includes promoting smoke-free train stations, smoke-free school walkways, and announcing a comprehensive ban on smoking in "arcades" and "porches". The county government has also partnered with 19 major chain retailers with over 300 stores to create smoke-free public places, protecting the health of the people.

The County Government also plans to display tobacco control information in various ways in areas where people tend to gather in each township and city, such as temples, major traffic arteries, village heads' offices, activity centers, and parks. This includes hanging banners, community signs, and posters. The goal is to



The "No Smoking & Go Healthy 520 Pet Walking Event"

guide the people to pay attention to the issue of tobacco harm and create a better community atmosphere without it. As of August 2023, 28 operation sites have been completed, and the goal is to have one site in each of the 33 townships and cities by December 2023.

The County Government is also continuing to strengthen tobacco control and promotion efforts. In 2022, the County Government conducted approximately 26,000 inspections of tobacco product sales locations, seven hospitals joined the smoke-free hospital program, 2,597 people who were willing to quit smoking were referred to the quit-smoking hotline, an animated video teaching material titled "The Adventure of Heroes - Tobacco, Alcohol and Betel Nut" was produced, 33 tobacco control volunteer teams were established, and 53 "smoke-free campus diversified promotion activities" were held in all junior high and high schools (vocational schools) in the County, and 37 Pingtung smoke-free season activities were held. The goal is to increase public consensus on smoke-free and work together to create a clean, healthy, and sustainable smoke-free environment.

6. Promoting Healthcare Equity

(1) Promoting a Convenient Home-Based Integrated Care Platform

In order to implement the spirit of local care, the County Government has been promoting the "Convenient Home-Based Integrated Care Platform" since June 2020. The platform provides a variety of continuous care services through interdisciplinary integration. The services include: home medical care, home dentistry, the country's first mobile pharmacist, mobile nutritionist, mobile psychologist, mobile rehabilitation, home care, and long-term care home services. This helps to improve the accessibility and availability of home-based care for the people, and to eliminate healthcare inequities caused by distance or mobility difficulties. As of May 2023, the platform has received 908 applications and

has matched 795 service cases. The platform's referral function helps to save users from the time and financial cost incurred by having to travel and wait for appointments. It also helps to reduce the burden on family caregivers and improve their care knowledge.

(2) Breaking Cultural Barriers, Pioneering the "Everyone Cares" Integrated Care Service Model

In order to improve medical care and integrate service resources, the County Government established the "Linnan Public Service Center" for pioneering "Everyone Cares (Da-jia-hao)" service model which takes concept from the three villages of "Da"-she in Sandimen Township, Ma- "jia" in Majia Township, and "Hao"-chai Wutai Township, on January 26, 2021. The model integrates the resources from the three town health centers as well as public and private sectors. From the front-end infant care, middle-aged and elderly chronic disease prevention, and elderly anti-aging to the back-end convenient home-based integrated care, the model provides a one-stop service concept for local residents. The services include: preventive care, fitness, specialized mobile medical care, prevention and delay of disability, home-based medical care, mobile pharmacist, mobile nutritionist, mobile psychologist, mobile convenience car, and transportation. In addition, local staff and indigenous volunteers are stationed to provide translation assistance, so that people of all age can enjoy a friendly and accessible comprehensive care model. The service center has become the community's best integrated care service station. On March 1, 2021, the service area was expanded to the first floor, and dental, hepatobiliary and

gastrointestinal clinics, and dementia centers were added. As of the end of August 2023, the center has served 11,157 people.

(3) Pioneering the Nation's First Mobile Life Rehabilitation Vehicle

In order to address the problems of inconvenient transportation and insufficient life rehabilitation resources in remote areas, the County Government launched the nation's first mobile life rehabilitation vehicle in February 2023. The vehicle is equipped with non-invasive treatment equipment that can help relieve pain and promote blood circulation, including phototherapy, electrotherapy, heat therapy, circulation machines, and fascial guns. It also collaborates with professional associations and groups such as doctors, nurses, physical and occupational therapists, and industry-academia-government cooperation to build an all-round care network. After being evaluated and confirmed by a doctor at the health center, the client will be provided with rehabilitation services and health education by professional physical therapists. For those who need further treatment, they will be referred to relevant resources based on their condition.



Mobile Life Rehabilitation Service - Doctor's Assessment

Five Main Benefits of the Mobile Life Rehabilitation Vehicle				
1. Professional physical therapists are on board.	2. Treatment is provided through equipment or manual therapy.	3. The client is instructed in proper posture.	4. Home exercise and rehabilitation techniques are taught.	5. Referral to medical institutions for treatment is made.

This will help to implement public health early detection, appropriate treatment, and delay of disability, and achieve the goal of health equity. As of August 2023, the vehicle has served 32 townships and 165 villages, reaching 761 sessions and benefiting 9,038 people. The vehicle will continue to extend its coverage of townships and villages, developing care models that meet the needs of community residents, and helping the elderly regain their health and smiles.

(4) Strengthening Healthcare in the Hengchun Peninsula

The Hengchun Peninsula is home to three regional hospitals, including Hengchun Tourist Hospital (hereinafter referred to as Tourist Hospital), Nammens Hospital, and Hengchun Christian Hospital (hereinafter referred to as Christian Hospital). However, critical patients often still need to be sent to medical centers in Kaohsiung for treatment, which is a long journey and can easily miss the golden hour for rescue. In addition, considering the annual demand for emergency medical care from 5 million tourists, the improvement of healthcare quality and capacity is also urgent.

In order to improve the long-standing lack of medical resources in the Pingnan area, the County Government has secured a medical center support plan and established a medical regional collaboration mechanism for four hospitals south of Fangliao. Tourist Hospital is responsible for internal medicine, Nammens Hospital is responsible for surgery, Christian Hospital is responsible for obstetrics and gynecology, and Fangliao Hospital is responsible for cardiac catheterization. The number of doctors at the hospitals has increased from 8 in 2015 to 16 today. By integrating medical resources and allocating responsibilities, the emergency medical care capabilities of the Hengchun Peninsula can be strengthened and the quality of emergency medical transportation can be improved.

The County Government has also combined with medical center resources to help hospitals in the Hengchun Peninsula upgrade their emergency medical responsibility levels and supplement medical staff, optimizing local emergency medical treatment capacity. Currently, Tourist Hospital is a medium-level capable hospital for emergency care, acute stroke, and major trauma, Nammens Hospital is a medium-level capable hospital for emergency care and emergency trauma, and Christian Hospital is a medium-level capable hospital for emergency care and high-risk pregnancy and newborns.

(5) Providing Long-Term Care Services for People with Mental Illness

In order to help people with mental illness return to stable life in the community and reduce the burden on family caregivers, the County Government applied for the Ministry of Health and Welfare's "Demonstration Program for Long-Term Care for People with Mental Illness". The program focuses on chronic mental illness patients, combines prevention and delay of disability, social participation, and integrates existing long-term care resources to provide comprehensive services for people with mental illness in the community.

The County Government also established a long-term care service center for people with mental illness in Xinyuan Township, and two service centers in Pingtung City ("Qianqiao Heart House") and Donggang Township ("Healthy Heart Living"). These centers provide a variety of services, including meal groups, health promotion, family support groups, and care courses, to ensure that people with mental illness receive proper care at every stage of their lives. In 2023, the County Government also added a new service to refer people with mental illness to dementia centers and community long-term care stations.

Statistics show that from January to August 2023,

the service center enrolled a total of 131 cases, and the two centers served a total of 56 people. Four people with mental illness were referred to dementia centers, and no cases were referred to community long-term care stations.

7. Promoting Long-Term Care Service 2.0, Building a Sustainable Aging Society

(1) Building a 3F Elderly-Friendly Information Website

In order to help citizens understand the scope of elderly-friendly services, local long-term care resources, and social welfare subsidies, the County Government has established a dedicated "Elderly-Friendly Information Website" with the design concept of 3F, namely "Fun, Friendly, Family". The website integrates information on many topics of concern to the elderly and the County Government's care resources, and divides the information into seven main themes: elderly care, aging life, healthcare, dementia awareness, cultural tourism, social welfare subsidies, and Pingtung pride. The website uses storytelling to communicate with the elderly and their families, helping to improve the elderly's ability to adjust to life at home and in society after retirement, and helping older adults to age successfully and healthfully.

(2) Increasing the Use and Coverage of Long-Term Care 2.0 Services

To increase the use of long-term care services, the County Government provides a variety of convenient application mechanisms. Citizens can apply for long-term care services by phone (1966 hotline), fax, or through the long-term care office's official website, the elderly-friendly information website, the County's integrated online service platform, or through referrals from other organizations. Citizens can also apply for services at nearby long-term care stations, local health centers, administration centers, medical institutions, veterans' affairs offices, community

care centers, neighborhood long-term care stations, or cultural stations.

In order to meet the needs of hearing-impaired people and enable them to "see and understand" long-term care services, the county government has partnered with the Pingtung County Voice and Hearing Association to provide three-way video conferencing and the long-term care office's official LINE account during video service hours. This makes it easier for people to consult and apply for services. The County Government has also linked up with the 33 town and village administration centers, local government agencies, and private organizations to host "Community Integration Resource Platform Liaison Meetings" to achieve cross-linking and referral matching. Through proactive demand surveys, potential cases can be discovered and timely care services can be provided. At the same time, the County Government hopes to increase the satisfaction and use of long-term care services by letting people know about the County's long-term care policy.

According to statistics from the Ministry of Health and Welfare, as of June 2023, the use rate of long-term care 2.0 services for the evaluated subjects in the County was 65.69%, and the coverage rate of long-term care services was 81.65%. The County ranks fifth among the administrative regions. In addition, according to the 2022 "City Long-Term Care Power Survey" by the magazine "Kanghen", Pingtung won the championship as a non-special municipality region.

(3) Long-Term Care Personnel Training, Home Care Operations Manual

In order to enhance the professional knowledge and care skills of staff at long-term care partner units, the County Government has organized specialized courses to provide in-service training opportunities. This helps to strengthen the service personnel's coping skills, care principles and

concepts, and the ability to connect with service resources. A total of 13 sessions in two batches were held this year.

In addition, the investigation of the practical situation and common problems of home care service providers and home care supervisors was conducted to establish a work manual for home care institutions that meets the local needs, including the precautions to be taken at the stages of establishment and operation, service provision, etc., of home-based long-term care institutions. This will help institutions to follow the manual and ensure the quality of service and operation. Regular workshops, expert meetings,

and editorial meetings were also held to discuss the operation of home care units by exchanging and sharing experiences on different topics, which served as the basis for the editing of the manual. As of the end of September 2023, two workshops on the experience of home care units had been held. On October 19, a workshop on the feedback of the experience of home care units was held, inviting 5 to 8 supervisors of accredited home care institutions that have good service quality to participate. Through their operational experience, the content of the work manual was reviewed and adjusted according to feedback to ensure that the manual meets the practical operational needs of the County.

Courses/Sessions	Course Contents
General Courses 5 sessions	Interdisciplinary team communication and collaboration, legal risks of long-term care work, labor contract design practice, emotional management and communication skills in the workplace (methods/tools), using time management skills to improve service quality
Management Courses 3 sessions	Long-term care institution management and operation - experience sharing (home care class) (day care class), effective leadership and problem-solving skills
Community-Based Institutional Courses 3 sessions	Featured day care innovation workshop, life empowerment activity design workshop (day care, home care), life empowerment activity guidance workshop (day care, home care)
	"Understanding Designated Guardianship, Avoiding Financial Loss", "The Application and Innovation of Smart Technology in the Healthcare Industry" one session each
	"Home-Based Care Supervisor Training Program, 2 Sessions



1. Organizing empowerment and action workshops for middle-aged women

To prepare middle-aged women for future health maintenance, care, retirement planning, and economic planning, the County divided into three districts and five support groups and worked in collaboration with local communities, targeting at middle-aged women from Hakka, fishing villages, indigenous villages and rural areas. In 2022, a total of 48 workshops were hosted with 509 participants. Through group thinking and discussion, the workshops provide middle-aged women with the opportunity to value and see the meaning and value of life.

2. Establishment of a Gender Equality Council across Bureaus, Gender Equality Work Receives Continuous Recognition

To protect gender rights, eliminate gender discrimination, and promote gender equality, Pingtung County Government established the Pingtung County Gender Equality Council. Through cross-department horizontal linkages,



Super Support Group for Pingtung Mothers with Disability

the Council integrates related affairs and comprehensively examines gender issues in the fields of "employment, economy and welfare", "healthcare access and personal care", "education, culture and communication", "personal safety", and "environmental technology and energy". This is to build Pingtung into a human right friendly environment.

In addition, Pingtung County Government is keen about women's rights and gender equality. In 2022, the "Gender Equality Business Guidance and Incentive Program" (also known as the Gold Orchid Award) won the central evaluation of "Grade A" honor. The Gender Equality Council also promoted gender equality innovative measures through cross-department mechanisms. The Department of Social Affairs' "Super Support Group for Pingtung Mothers with Disability" and the Department of Hakka Affairs' "Tradition-Breaking and Progress-Oriented: Praying for All Children" won the "Gender Equality Innovation Award" twice. The Department of Indigenous Peoples' "Rukai Artist Overturns Tradition and Reclaims Lost Skills" was recognized with the "Gender Equality Story Award".



Tradition-Breaking and Progress-Oriented: Praying for All Children

Promoting Strategies	Bureau	Innovation Measures
Super Support Group for Pingtung Mothers with Disability	Department of Social Affairs	<p>Pingtung County Government has launched a new program to provide marriage and childbirth support services for disabled women. The program is the first and only one in Taiwan to offer a comprehensive range of services, including: "personal growth", "peer support", and "childcare aids".</p> <p>The program is designed to help all disabled women who want to become mothers realize their dreams of motherhood.</p>
Tradition-Breaking and Progress-Oriented: Praying for All Children	Department of Hakka Affairs	<p>In Pingtung County, the traditional Hakka custom of "Bai Sin Din" is being reinterpreted to promote gender equality. In the past, "Bai Sin Din" was a ceremony held during the Lunar New Year to pray to the gods for the safety and well-being of boys. However, the Pingtung County Government has launched a new program that includes girls in the ceremony. This program is designed to challenge gender stereotypes and promote the idea that boys and girls are equal.</p>
Rukai Artist Overturns Tradition and Reclaims Lost Skills	Department of Indigenous Peoples	<p>In the traditional Rukai patrilineal social culture, men are forbidden from weaving or embroidery, as it is believed that doing so will prevent them from being a competent hunter. Therefore, needlework and embroidery are taboo for Rukai men.</p> <p>In order to preserve the Rukai weaving and embroidery skills, Rukai designer Peng Chun-lin from Qingye tribe decided to revive the lost memories of his tribe. He was guided and trained by his grandmother, who was a skilled weaver and embroiderer.</p> <p>Peng Chun-lin's story is one of breaking with tradition. He overcame traditional gender roles and found a new path for Rukai men to engage in weaving and embroidery.</p>

3. Full support for women's participation in public affairs

To ensure that women's voices are heard and their contributions are recognized, Pingtung County Government is committed to empowering women to participate in public affairs. The County has 916 female organization presidents, which is higher than the national average. This ensures

that women's voices are heard in public decision-making. The County Government is also setting an example by appointing 10 women to the position of department head among the 24 departments of the County Government, accounting for 41.6%. The County Government will continue to work from all angles, including personal safety, welfare, personal care and employment, to create a city where the possibility of women is unlimited.

In addition, the County Government has partnered with the Ministry of Health and Welfare to establish the "Pingtung Women's Dream Center" at the Pingtung Social Welfare Complex. This center provides a dedicated platform for women in Pingtung to learn, communicate, and perform. The center also collaborates with private organizations to establish branches in the north, center, and south of the County. By working together, the public and private sectors can strengthen women's empowerment.

Since 2015, the Pingtung Women's Dream Center has been running the "Woman's Dream University," which consists of two colleges: the "Talent Empowerment" College and the "Economy" College. The center also offers a variety of services, including exhibitions, training courses for women, and outreach programs in rural areas.

In the space theme exhibition, the center hosts the "Monthly Curator" program, which invites amateur women from the County, regardless of nationality or identity, to serve as curators for the month. The program includes art exhibitions of their creative works, experience sharing sessions, and hands-on workshops. This program has allowed women to find different forms of enjoyment and achievement in the center. In 2022, the center hosted three themed sharing sessions, which attracted 1,235 visitors.

To align with the center's core values of diversity, autonomy, and empowerment, the training



Pingtung County Women's Celebrity Lectures

courses are organized into five core frameworks: learning power, gender power, creativity, social power, and influence power. By integrating learning areas, the center has built a systematic knowledge learning map. In 2022, the center held 110 training courses, serving 2,565 people.

4. Protecting Women's Rights, Planning a Hopeful City

Women are the primary caregivers in many families, shouldering a variety of responsibilities. In addition to being the first county in Taiwan to establish a Department of Long-Term Care, the County Government has also introduced important policies to address the needs of women in all aspects of their lives, including pregnancy, childcare, education, healthcare, employment and safety. We are committed to providing women with the services they need to thrive and to be a strong support for all women.

(1) Improving Maternal and Child Healthcare

a. Improving the Child Health Care Network

The first three years of life are a critical period for child development. To improve child health care in Pingtung County, the County Government proactively sought funding from the central government in 2020 to implement the "Pediatricians Specialized in Young Children Program." This program provides comprehensive care for pregnant women and children from birth to three years old, including counseling,



Women's Empowerment Courses

preventive care, and vaccination. The County Government also works with the Dental Association to promote fluoride treatment for children's teeth, and it has established a system for reporting and referring children with special medical or social needs, such as developmental delays or high-risk families.

Currently, there are seven hospitals, 16 clinics, and 31 health centers participating in the program, with a coverage rate of 94% in all townships. A total of 7,826 children have received comprehensive care through the program.

The County Government also plans to establish 24-hour pediatric emergency departments at the Pingtung Christian Hospital, Po-chien Hospital, Pingtung Veterans General Hospital, An-tai Hospital, Fooyin University Hospital, and Hengchun Christian Hospital. These hospitals will serve as backup hospitals for primary care facilities, and they will work with medical centers in Kaohsiung via a regional defense model to provide timely and emergency medical assistance to reduce mortality rates.

b. Providing Care and Follow-Up for High-Risk Pregnant Women

To improve the health care of high-risk pregnant women during perinatal period, Pingtung County Government has partnered with medical institutions to implement the "High-Risk Pregnant Women Care and Follow-Up Program." This program provides high-risk pregnant women with individualized health education, care, and follow-up, and it connects them with social welfare and pediatric specialist resources. The program aims to protect the health of mothers and babies. As of August 2023, 325 women have been enrolled in the program.

(2) Pingtung Supports Pregnancy Women with Action

a. Home-based Maternal and Infant Care Doula Services

To create a win-win employment and welfare women's care service, Pingtung County Government has established home-based maternal and infant care matching platforms in the north and south of the County. It also continues to offer doula training courses to empower women with flexible working hours to become doulas. The County Government also plans one-on-one home-based doula services, in which professional doulas provide maternal and infant care, parenting guidance, confinement food preparation, and simple housework. This greatly reduces the burden of postpartum care and childcare for women, and also increases the job opportunities for women in the County, creating a home economy.

The home-based doula service initially prioritized low-income, middle-income, disabled, second- or higher-order births, special circumstances, under-20-year-old, and newly immigrated women as beneficiaries. Since March 8, 2023, the subsidy has been expanded to all newborns, with each family being able to apply for 80 hours of public-funded home-based doula services. This creates a friendly environment for childbearing. From 2022 to June 2023, a total of 83 doulas were online, providing services to 1,089 mothers.



"Pingtung Doula Home Care Services" Extended to the First Child!"

b. Extension of Maternity Transportation Services

In response to the needs of pregnant women, and to ensure the health of mothers and fetuses during pregnancy, Pingtung County Government launched the "Good Pregnancy Travel Coupon" in March 2022, providing a NT\$6,000 subsidy for pregnant women to offset the cost of taxi rides to and from medical institutions for prenatal check-ups or other medical appointments. This benefit is also available to pregnant women who have given birth within the past two months. As of June 2023, 21 obstetrics and gynecology clinics and 9 social welfare centers in Pingtung are offering these friendly policies for pregnant women, and a total of 443 people have used the Coupon, taking 905 rides.

c. Increase in Maternity Allowance

In response to the low birth rate and in line with the central government's "Full National Support for Children Up to 6-Year-Old" policy, Pingtung County Government began offering an increased maternity allowance on May 15, 2023. The allowance is retroactively applied to all newborns who were born or registered in Pingtung County on or after January 1, 2023, and whose parents have lived in the County for at least one year without moving away. The increased allowance of NT\$20,000 per newborn is designed to help families with the economic burden of raising children. The County Government is also continuing to integrate welfare and health education information across departments, and has launched a "Parenting Handbook" to help create a city where people are willing to "marry, have children, and enjoy the life journey with their children."

d. Breaking down ethnic barriers to achieve health equity

Language and cultural differences between different nationalities often lead to communication difficulties and barriers. To provide friendly medical services for new immigrants, Pingtung

County Government has established a "New Immigrant Maternity Special Clinic" at the An-he, You-sheng, and Fooyin hospitals, and has trained 30 "birth care interpreters" to create a humanized medical environment and barrier-free healthcare environment.

The County Government is also continuing to encourage new immigrants to participate in home-based doula training courses, so that multicultural values can be implemented in the care of new immigrant mothers and babies. As of June 2023, 5 new immigrants (3 from mainland China, 1 from Vietnam, and 1 from Malaysia) are qualified to provide home-based maternal and infant care doula services, and 40 new immigrant women have benefited (25 from Vietnam, 5 from mainland China, 4 each from Indonesia and the Philippines, and 1 of each from Hong Kong and Macau).

e. Improving Maternal and Child Care Services for Women with Disabilities

Considering that women with disabilities need to spend more time and energy in the parenting process, and to bridge the gap in opportunities and resources, Pingtung County Government has been working across departments to build a support system for women with disabilities since 2019. The system has conducted need assessments and resource integration for women with disabilities who have preschool-age children. It provides disability-aware prenatal and postnatal care services, support groups for mothers with disabilities, and empowerment programs for women with disabilities. These services meet the needs of families with disabilities and the mental and physical health needs of mothers with disabilities. In 2022, the system provided marriage and parenting counseling to 25 women with disabilities and case management services to 20 women.

After three years of development and service, it was found that women with disabilities need

more support from their family to cope with the challenges of life. Therefore, the 2022 plan includes more family member roles (such as fathers), provides them with the concept of sharing the chores, and joins network units to create a friendly environment for women with disabilities who have preschool-age children.

The County Government will continue to build friendly medical demonstration locations, establish a resource center for women with disabilities to provide a platform for marriage and parenting support, including information on pre-marital diversity imagination lectures and parenting support networks. It will also organize parent-child activities for families with disabilities to strengthen the functions and roles of disability parents and promote family interaction.

(3) Caring for Every Child in Pingtung with Love

a. Providing Public Childcare Services

In response to the low birth rate, Pingtung County Government has been planning 7 public childcare facilities since 2019. These facilities are located in Pingtung City (2 facilities), Yanpu Township, Wandan Township, Neipu Township, Chaozhou Township, and Hengchun Town. They can accommodate 102 infants under the age of 2, providing community-based, small-scale, high-quality, and comprehensive childcare services.

In addition, to improve the parenting environment and enhance the quality of infant care, the County Government plans to establish public childcare facilities in 15 townships with a population of over 200 infants under the age of 2. It is also proactively planning to deploy public childcare facilities in areas with insufficient childcare resources in the County. The County Government is reviewing various idle spaces in the County and expanding its inventory of community activity centers and government offices. It is also encouraging non-profit organizations to operate public facilities to

ensure that children have a safe and comfortable environment.

b. Improving Public Childcare Services

To enhance the care of every child and provide a more quality and safe learning environment, the Pingtung County Government has constructed a safe and healthy childcare environment by: "affordable fees", "providing quality childcare", "ensuring that children can attend school close to home", "meeting the needs of parents' childcare hours", and "prioritizing children in need".



Creating a Happy and Child-Friendly City

The County Government is also gradually increasing the amount of public childcare services, with a focus on establishing non-profit kindergartens. As of the second semester of the 2022-2023 academic year, 98 private kindergartens have signed agreements to become quasi-public kindergartens, with a 79.03% application rate. These kindergartens can provide childcare services to 11,364 children in the County. In addition, childcare providers need to be able to meet the needs of children at different age stages, with different abilities, and with special needs. To comprehensively improve the quality of childcare, the County Government will begin to gradually reduce the student-to-teacher ratio in the 110 public kindergartens (including branch campuses and the National Pingtung University

Kindergarten) and 17 non-profit kindergartens (including branch campuses) starting in the 2023-2024 academic year. The goal is to reduce the student-to-teacher ratio in all 110 public kindergartens with 152 classes and all 17 non-profit kindergartens with 44 classes to 1:12 by the 2025-2026 academic year.

c. The Only Comprehensive After-School Care Program in Taiwan

To help parents work with peace of mind, support children's healthy growth, reduce teachers' work burden, and provide community employment opportunities, Pingtung County Government has been offering comprehensive after-school care programs for all 164 elementary schools in the County since the 2015-2016 academic year. As of the second semester of the 2022-2023 academic year, the program has benefited 8,321 students, including 4,068 students from general households, 3,995 students from low-income families, with disabilities, or indigenous students, and 258 students with special circumstances. In 2023, the County Government decided to extend the program to junior high schools, so that every child in Pingtung can grow up happily and every family can live in peace and contentment.

(4) Gender equality protection is further upgraded, and women are supported in a diverse and comprehensive way

a. Supporting women to enter the workforce

In order to strengthen women's rights and encourage women to realize their full potential, the County Government has proposed the "New Women Empowerment in Workplace" program. This program provides one-on-one career counseling for women returning to the work, helping them to re-enter the workforce. It also provides subsidies for work equipment, such as interview clothing and shoes, with a maximum subsidy of NT\$2,000 per person within one year. This provides support services for women during interviews, job hunting, and initial employment,

making the County Government a reliable backing for women to return to the work.



Providing One-on-One Career Counseling to Help Women Return to the Work

b. Pioneering a one-stop service for stalking victims

The "Stalking Prevention Act" was officially implemented in June 2022. To support victims in receiving fair treatment and handling under an effective service delivery system, the County Government has integrated public and private resources to create a nationwide "one-stop service" for stalking victims. Victims can report the crime to any police station, and the police, social welfare, and medical authorities will simultaneously initiate services. Professional

personnel will provide care and support, and patrol boxes will be installed if necessary to protect the victim's physical and mental safety.

c. Creating gender-friendly spaces and promoting a safety consumption environment

To create a gender-friendly living environment, the County Government has already installed 150 breastfeeding rooms in public places. It also continues to incorporate gender perspectives into all public facilities in the County, including the gender ratio of public toilets, family restrooms, hooks, aisles, handrails, lighting, and cleaning. In addition, QR codes have been posted in public toilets in popular tourist attractions and train stations. People can use their phones to connect to the reporting platform to report public toilet problems, which will be handled by a dedicated staff member.

In addition, the County Government annually implements the FDA's post-market surveillance program in accordance with the central government's planning. It also strengthens inspections of cosmetics and infant complementary foods on the market to improve the quality of cosmetics and food, creating a trusted and safety consumption environment for the people. In 2022, a total of 6 cosmetic products (1 lip gloss, 1 foundation, 1 teeth whitening, 1 mouthwash, and 2 eyeshadow palettes) were sampled, and 9 infant complementary food products (1 oatmeal, 4 baby porridge, and 4 infant formula) were sampled. All products met the regulations.



"One-Stop Service Plan for Victims of Sexual Harassment and Stalking" Flyer



1. Develop the "Five Hearts of Youth" and work together with young people to build their dreams

(1) One-stop service: Establishment of the Youth Employment and Entrepreneurship Counseling Center

With the goal of providing a one-stop service for youth employment and entrepreneurship, the "Youth Employment and Entrepreneurship Counseling Center" was established in June 2022. The center provides a dedicated space for youth, integrating services such as employment, vocational training, entrepreneurship, and career counseling. The center also organizes a variety of events, such as business orientations and gatherings, entrepreneur exchanges, career aptitude tests, mock interviews and resume reviews, career sharing lectures on a variety of topics, and on-site visits to leading local companies. These events aim to promote

entrepreneurship among talented and promising youth in the County, while also helping them to improve their skills and develop their career paths. To date, the center has organized a total of 130 employment and entrepreneurship counseling events, with a total of 5,688 people participating.



(2) Two-month "Public Sector Internship Program for College Students"

To help students get to know the workplace early, the County has been promoting the "Public Sector Summer Work-Study Program for College Students" since 2015. This program provides students with the opportunity to learn and work in the public sector during the summer, cultivates the good work ethics in the workplace, reduces the number of students who are unable to adapt to the workplace due to lack of practical experience, and increases their willingness to stay or return to their hometowns for employment and their competitiveness in career development. To date, a total of 2,586 students have been enrolled.



In 2023, in order to increase youth's involvement in local affairs, the County launched the "College Student Local Regeneration Internship Action Plan" for the first time. The plan recruited 20 local regeneration teams to recruit outstanding students. It encouraged young students in the County to use their professional skills to participate in the local regeneration industry, enhance young people's sense of identity with the land, and increase the number of young people who are willing to return to their hometowns.

(3) Three-field innovation proposal competition

In order to promote youth participation in public affairs and attention to local issues, and to convert creative ideas into concrete and feasible plans, the County Government holds a youth innovation competition. Youths submit their proposals, and the government holds expert thematic lectures and training workshops to improve their presentation skills, optimize the content of their proposals, and provide guidance for teams to materialize their proposals. This is to discover outstanding youth teams and establish a seed database of innovative talents in Pingtung. In 2022, the County Government held the "Agricultural Youth Hackathon" and the Cross-domain Digital Talent Cultivation Competition. A total of NT\$700,000 prizes were offered, attracting over 40 teams to participate.

a. "Agricultural Youth Maker" Innovation Agriculture Competition

To cultivate agricultural innovation talents and enable youth to use technology and creativity to conceive the future of agriculture and plan digital solutions to agricultural problems, the "2022 Pingtung County Youth Agricultural Customer Innovation Agriculture Landscape Innovation Entrepreneurship Proposal Competition" was held with the theme of "promoting the upstream and downstream industrial chain of Gaoshu agricultural landscape - pineapple straw hat fields". The participating teams proposed from

the aspects of smart agriculture, production technology, management, agricultural machinery improvement, and innovative agricultural product sales. A total of 11 teams completed the proposal presentation and were evaluated for three awards to be implemented.

The gold medal field "Wanfu Owl" became an important tourist attraction in conjunction with the "2023 Along the Mountain Wanlai Double-Decker Bus" event. The silver medal field "Hospitality in Gaoshu" also completed the implementation and presented the results with promotional activities, attracting tourists to visit and tour, and driving the economic benefits of surrounding industries, tourism and leisure, and promoting youth to inject new vitality into their hometowns.



2022 Agricultural Maker Innovation Competition

b. Cross-domain digital talent innovation proposal competition

To bridge the digital and technology talent gap and link industry knowledge and technology, the "Pingtung County Cross-domain Digital Talent Cultivation Plan" was promoted in 2022. A total of 44 digital talent training courses were held, covering 5 categories: AVR applications, digital lighting technology, smart IoT, self-media video streaming, and digital media applications, with a total of 658 participants. On November 19, 2022, the Cross-domain Digital Application Competition and Exhibition was held with a total prize of NT\$300,000. 6 teams won the competition, each of which demonstrated their unique creativity to create their own results from scratch.



Cross-domain digital application competition and exhibition

(4) Four-themed training courses

The County Government has planned four-themed talent skill improvement training for different youth and industries, including "self-media video, smart agriculture, tourism innovation, and digital talent". These courses will be held in 5 youth entrepreneurship spaces to create a comprehensive training environment for youth, improve employment opportunities and salary levels. In the future, the County Government plans to hold 150 training courses with a total of 900 hours, providing material resources to help youth develop their career skills.

(5) 5 spaces for youth industry entrepreneurship

To cultivate talents in various industries and promote the potential for industrial development, the County has revitalized idle spaces to create a variety of youth entrepreneurship bases.

a. Pingtung Smart Agriculture School

Pingtung Smart Agriculture School takes the location of former Nanhua Elementary School, and is the first youth entrepreneurship space in the County making used of revitalized old school building. The school's development focuses on smart agriculture, youth exchanges, and youth entrepreneurship spaces. It has recruited youth entrepreneurship teams in the fields of barista and catering, agriculture, video, and plants. It also plans to build the largest (25- to 150-kilogram) drone academic and practical examination field

in Taiwan and introduce smart agriculture talent training courses to spark the interest of more young people in agriculture and build a good youth entrepreneurship and exchange environment in the southern region.

There are 21 youth entrepreneurs in the base. In March to May 2022, the school collaborated with the "185 Along the Mountain Wanlai Double-Decker Bus" tourist resource to open the Farmer's School Market. In November 2022, the school launched the "Southern Folklore Festival" for three weeks to showcase the local regeneration achievements of the youth base in the southern region.

b. Pingtung Digital Youth Entrepreneurship Center

Pingtung County Government revitalized the idle space of the former Chinese Youth Corps Pingtung Lifelong Learning Center and transformed it into a "digital economy" industry base of innovation purpose, Pingtung Digital Youth Entrepreneurship Center. The Center was opened on December 16, 2022. The first floor has a digital exhibition space and a youth business incubation space. The second floor has standalone offices, smart conference rooms, co-working spaces, and future smart classrooms, providing the best place for exchanging ideas for promoting digital development and youth entrepreneurship.

The Center also offers a series of innovative entrepreneurship theme courses and recruits youth entrepreneurship teams in the fields of augmented reality applications, digital lighting technology, smart IoT, self-media video streaming, and digital media applications. The Center is proactively cultivating digital technology talents and attracting digital economy industries to take root in the County. There are 6 digital technology youth entrepreneurship teams in the Center. It is hoped to support local development, empower youth to return to their hometowns, reduce employment loss, and narrow the digital

gap between urban and rural areas, and revitalize the industrial momentum of Pingtung.

c. Pingtung Youth Tourism and Entrepreneurship Basement

To revitalize Sichong River, revitalize the local economy, and attract young people to return home, the idle space of the former Wenchuan Police Station was renovated into the "Pingtung Youth Tourism and Entrepreneurship Basement", which opened on December 10, 2022. The Basement is developed with the following five themes: "mountain and forest initiative", "micro-startup market", "youth business incubation", "youth collaboration", and "innovative tourism". The Basement has collaborated with the National Development Council's Youth Empowerment Workstation, Rocketman Lab (Chengdong Dayuanzi Culture Co., Ltd.), to jointly create a biking tourism and entrepreneurship field. The interior of the Basement has four youth entrepreneurship spaces and 12 co-working spaces. It has also recruited businesses such as restaurants, drinks, bicycle repair, and agricultural products sales. The outdoor area has a youth plaza for micro-startup markets and youth dialogues. It also connects the local culture and agricultural products of the County Highways 199 and 200 to create a resting and refueling space for residents and tourists.

d. Pingtung County Daxin Youth and Elderly Generation Co-Creation Basement

This basement is the result of the revitalization of the idle space of the former Daxin Elementary School. It responds to the issue of aging in the southern region of Pingtung. The basement is operated with five main themes: "volunteer service", "education", "local regeneration", "community care", and "community reading". It becomes a community park, a new space for parent-child and youth-elderly generation integration. In the future, the basement is planned to be transformed into a care school. It's hoped that the basement will facilitate generation

cohesion, and to build a new form of community in today's society that comes with little recognition between generations.



Pingtung Smart Agriculture School



Pingtung Digital Youth Entrepreneurship Center



Pingtung County Daxin Youth and Elderly Generation Co-creation Basement

e. Pingtung Education Innovation Basement

"Pingtung Education Innovation Basement" is transformed from the east wing of the Wenchuan branch of Checheng Elementary School. It has introduced the Teach For Taiwan team of the Taiwan Education Foundation for Teaching. The basement has the following four development goals: "resource connection", "local regeneration", "public-private cooperation", and "education innovation". It is a starting point for youth empowerment and a model of innovative education in remote areas.

2. Youth employment and entrepreneurship training courses

(1) "Big Shop Manager Course"

To transmit entrepreneurship knowledge and pass on local experience, the Pingtung County Government has been offering the Big Shop Manager Course since November 2015. To date, nine "Basic Operation Classes", three "Advanced Leadership Classes", and two "Advanced Strategy Classes" have been held. Through the teaching of teachers and sharing from alumni, 245 young entrepreneurs from Pingtung have been trained to become big store managers, creating local employment opportunities. They also volunteer to help the Youth Academy provide entrepreneurship counseling in remote areas. In the future, the course will continue to be offered



Graduation ceremony of the ninth term of the Great Store Manager Basic Course

at the Youth Academy, and "Master's Lectures" and "Failure Lectures" will be held to share operational strategies from "farm to table" and "from customer to business owner", adding more vitality to youth entrepreneurship.

(2) Pingtung Labor University

In response to the needs of the labor force in the County's industries, Pingtung County Government launched the first Labor University in 2020. The university combines the youth return home policy and youth entrepreneurship, and offers courses that are certificate-oriented and aimed at cultivating employment and entrepreneurship talents. The university also collaborates with the National Pingtung University of Science and Technology, Neipu Agricultural and Industrial Technology High School, and Jiadong Agricultural High School to offer a variety of professional practical courses. As of the end of 2022, the university has had over 2,000 students and over 3,500 hours of courses. The university will continue to operate and adjust the direction of courses in accordance with the labor shortage situation in the County's industrial parks.

3. Proactively match employment and expand job recruitment

(1) Youth Stable Employment Subsidy Program

The Pingtung County Government has been running the "Youth Stable Employment Subsidy Program" since 2019 to reduce the turnover of talent in local enterprises, while guiding enterprises to raise wages for workers, and promote stable employment of workers. As of August 2023, the total number of approved people has accumulated to 1,775. Every year, 250 application slots will be provided to encourage young people to move to Pingtung and return to their hometowns for employment, and to encourage college graduates to stay in Pingtung and start working early.

(2) Launch of the "Senior Talent Service Center" and the "Senior Talent Employment Subsidy Program"

In response to the trends of population aging and low birth rates, Pingtung County Government established Senior Talent Service Center in May, 2022. The center is staffed with dedicated employment service personnel who have reviewed the County's industrial characteristics and developed training and learning courses and job offers that are suitable for retired or middle-aged and older people. The center also provides guidance to businesses on hiring professional silver talent. The center is proactively implementing the County's senior labor policy, enabling middle-aged and older people who are willing to continue working to embark on a new stage of their careers.

From 2022 to the end of August 2023, the center has received 3,864 job seekers, provided 5,268 employment consultations, and successfully matched 315 people with jobs. The center has also held 12 employment promotion sessions for senior talents, with a total of 263 participants.

Pingtung County has many remote townships with inconvenient transportation, which has led to a lack of willingness to work among middle- or advance-aged people. To address this, the County launched the "Senior Talent Employment Subsidy Program" in July 2022. The program provides



Senior talent service center

subsidies to employers who hire senior talent for the first month of occupational accident insurance premiums, and up to NT\$1,200 in transportation subsidies for elderly workers. From 2022 to the end of August 2023, the program has received 32 applications. The center has also held 10 physical business promotion events at farmers' associations and communities. The center will continue to promote the program to address the County's labor shortage and alleviate cross-domain employment barriers, helping talents to return to the labor market.

4. Promoting local creative industries

Nomadic entrepreneurship is a trend of modern youth entrepreneurship. In order to increase the success rate of youth micro-entrepreneurship, Pingtung County Government created its own brand, "Good Pingyu Market", in 2021. The market is held regularly at various youth entrepreneurship bases or commercial districts in the County, such as the Pingtung Digital Youth Entrepreneurship Center and the Pingtung Chaozhou Japanese-style Park. The market features local creative brands and art performances. Each market recruits 25 youth micro-entrepreneurship stalls and introduces 5 established local youth brands. This helps to increase the visibility of young entrepreneurs who are just starting out.



Good Pingyu Market

In 2022, the County Government began to encourage stallholders to set up pop-up stores in existing vacant spaces. This allows them to experience "nomadic to settled" and to assess whether their brands have the potential to open a stable store. The County Government has already supported over 500 local youth groups. The government will continue to offer a series of brand management courses to help young entrepreneurs improve their operational stability.

5. Establishment of a New Immigrant Consultation Area to Assist New Immigrants in Finding Jobs

To assist new immigrants in finding jobs and starting businesses, Pingtung County Government has established a new immigrant consultation area. The area offers courses and consultations on job hunting, employment promotion, and business preparation. The area also cooperates with the County's sustainable tourism and travel industry to help new immigrant families enter the workforce. The County Government is committed to eliminating stereotypes about new immigrants, protecting their labor rights, and helping them to increase their self-reliance and economic independence.

The consultation area also works with three new immigrant family service centers to provide job counseling, employment information, and vocational training courses. The centers also accompany new immigrants to register for jobs according to their individual needs and circumstances. From 2022 to August 2023, the consultation area served a total of 768 people. It also held 15 sessions of new immigrant information courses to improve new immigrants' digital skills, tool application, and operation. This helps to bridge the digital divide and improve their job skills. In the future, the consultation area plans to identify and support new immigrants

who are interested in starting a business by participating in business training courses, and incorporate new immigrant creative markets into the system to increase their business capacity.

6. Publication of the Youth Report Book "Pingtung People Arriving Home"

Pingtung County Government has planned and edited the "Pingtung People Arriving Home" series of publications to showcase the group of young people who have stayed in or returned to Pingtung to work or start a business. In 2021, the County published the first volume of the series, "Palatable Variety," featuring young catering professionals. In 2022, the County published the second volume, "All Walks of Life," with the theme of "the youth's unlimited potential in finding their ways." The County identified 35 craftsmen from different industries based on the five classic elements of wood, fire, earth, metal, and water. The book profiles the craftsmen's work experience and hardships from a variety of perspectives. The County also hosted a book launch event and a special exhibition of young craftsmen to faithfully present the life practices of young craftsmen and encourage readers to learn about the life stories of all sorts of expertise in Pingtung. The County plans to publish a new volume of the "Arriving Home" series on a different theme each year to attract young people to return to Pingtung and carry on the spirit of Pingtung.



Pingtung People Arriving Home, Volume 2: Cultivation



Pingtung Youth Station was launched to provide career services for the youth.



Chapter 5 | Strategy and Action

Multicultural Convergence and Cultural Inheritance

Pingtung, like a microcosm of Taiwan, is home to beautiful mountains and sea, and is a place where diverse ethnic groups converge, including indigenous peoples, Minnan, Hakka, and new immigrants. In order to create a pluralistic society that is inclusive and co-prospering, the Pingtung County Government is actively promoting the transmission of languages and cultures of all ethnic groups. At the same time, it is working to improve local industrial economy and living standards, and to continue the vision of a friendly and harmonious community among ethnic groups. In order to give the city its own soul, the County Government is taking steps to preserve cultural assets, promote cultural experience education, promote performing arts activities, and create a comfortable reading environment. It is leveraging the soft power of interethnic weaving and harmony between mountains and sea, and is continuing to cultivate the energy of sustainable culture. This will help to root Pingtung beauty in the local community and contribute to the principle of "SDG 10: Reduce Inequality within and among Countries".



Tribe members hold hands and dance to celebrate the harvest and the good times.
Make more people see and feel the diversity and beauty of Pingtung culture.

Chapter 5 | Strategy and Action

Multicultural Convergence and Cultural Inheritance



1. Building a Rigorous Social Welfare Network in Indigenous Areas

(1) Strengthening Eldercare in Indigenous Communities

To implement the Indigenous Long-Term Care Policy, Pingtung County Government has proactively promoted the "One Cultural Health Station per Community" program to provide quality and safe care services for the elderly. In addition, given the increasing proportion of indigenous peoples moving to urban areas, the government has also proactively established cultural health stations in urban areas. Currently, the County has a total of 74 cultural health stations, including 4 in urban areas. The coverage rate in 9 indigenous areas has reached 100%, the highest in the country. In addition, the government has hired 210 care workers to serve 2,853 elderly people, truly realizing the vision of local elderly care in the community.

In addition, the government has taken into account the diversity of culture and the differences between ethnic groups. It has established 10 Indigenous Family Service Centers in 9 indigenous areas and Pingtung City. The centers incorporate the indigenous community's local cultural perspective into social welfare plans, programs, and measures to provide convenient and integrated welfare services to indigenous peoples.

(2) Transformation of Pingtung County Indigenous Cultural Center

Pingtung County Indigenous Cultural Center has been in operation since 2001, with a focus on the exhibition and preservation of indigenous artifacts, and social welfare services as an auxiliary function. In addition, since 2018, the County has launched the "Grand Museum Plan" to revitalize the Pingtung Tobacco Factory, which has a history of over 80 years, and build a venue for the convergence of cultural artifacts from the Minnan, Hakka, and indigenous peoples.

Therefore, the County Government plans to move the museum and exhibition functions of the original building to the "Pingtung Tobacco 1936 Cultural Base" - Pingtung Aboriginal Museum. The existing building will be transformed and renamed as "Indigenous Multi-Cultural Harmony Center" to focus on social welfare and public services. Currently, the center has long-term care stations for the elderly, children's after-school classes, urban indigenous family service centers, indigenous language promotion, employment and financial counseling, and other service units. The center will further strengthen its public service functions, including children's co-learning areas, fitness rooms, information rooms, and multi-purpose rooms. The center will serve many indigenous peoples who have moved to urban areas and allow people of different ethnic groups to learn about indigenous culture and promote mutual understanding and respect between ethnic groups.

(3) Establishment of Community Mutual Aid Childcare Service Centers

In the past, children in outlying islands, rural areas, and indigenous territory were unable to receive adequate childcare services due to geographical constraints and insufficient resources. Therefore, Pingtung County Government established five community mutual aid childcare service centers, including Maer, Meiyuan, Jiaping, Pinghe, and Xuhai Townships, the most in the country. The centers have hired 18 local childcare workers and care for 122 children, providing localized childcare models and directly or indirectly promoting employment. In addition, to enhance the professional knowledge of childcare workers, the government proactively guides each childcare worker to participate in at least 18 hours of professional early childhood education, indigenous language, and indigenous culture heritage training each year.

2. Compiling the Most Beautiful Ethnic-Based Textbooks

Pingtung County is home to a diverse population, from indigenous peoples who migrated to Taiwan to Minnan and Hakka pioneers who settled in Taiwan, and then to new immigrants who settled in the County. The different ethnic groups and languages have nurtured a diverse culture.

To preserve the culture and language of the different ethnic groups, the County Government has taken concrete action to establish ethnic-based curriculum development centers since 2014. The Pingtung County Indigenous Peoples Curriculum Development Center, the only one of its kind in the country, has invited elders from all tribes, experts, scholars, and educators from all fields to compile textbooks based on the five principles of "learning with joy, easy to understand, personalized, highly contextual, and culturally responsive." In 2018 and 2022, the center completed the textbooks for the Paiwan and Rukai tribes, respectively.

To emphasize the importance of Hakka as a mother tongue and to preserve traditional language and culture, the Hakka Curriculum Development Center has conducted field surveys, interviewed elders, visited writers, conducted on-site inspections, and used the internet to connect with overseas writers to compile textbooks that are close to everyday culture. The center has completed the editing of textbooks for Chinese, social studies (life), and art, and distributed them to 55 schools in 2022-2023 academic year.

The Minnan Language Curriculum Development Center completed the "Pingtung-Based Taiwanese Hokkien Textbook" in 2022, which incorporates elements of Pingtung culture. This textbook is designed to meet the needs of different learners and to promote local education. It was distributed to 130 schools in the County in 2022-2023 academic year, and the development of teacher's manuals and audio books is currently underway. In addition, the county government launched the first Vietnamese-language board game picture book in the country in 2022. The book was co-created and designed by new immigrant language teachers and members of international families. It provides children with the opportunity to learn Vietnamese vocabulary and phrases related to culture, landscape, food, clothing, shelter, transportation and recreation in a game-like and life-like setting. This helps children to learn to respect, tolerate, and accept different cultures.



Indigenous-based textbooks



Hakka-based textbooks



Pingtung-based Taiwanese textbooks



The first Vietnamese-language board game picture book in Taiwan

3. Promoting Indigenous Businesses

(1) Building the First Indigenous Industry Complex in Taiwan

The Pingtung Indigenous Department Store is located in six former military barracks in the Shengli Star Village Creative Life Park. It is divided into six thematic halls: "Indigenous Children (milingmilinan)", "Indigenous Sound (senay)", "Indigenous Weaving (tjemenun)", "Indigenous Home (qinaciljai)", "Indigenous Food (kanu)", and "Indigenous Gathering (bulay)". It combines living creativity, product selection platforms, furniture exhibitions, dessert handmade experience, exhibition planning, textile clothing design, music performances, and indigenous tour packages to create a cross-ethnic, cross-cultural, and interdisciplinary complex shopping street district. Currently, there are six indigenous brands operating in the store. The store continues to support brands with a focus on distinctive development and the concept of "post-incubation".

To create new channels for indigenous businesses and generate new economic opportunities, the county government has launched the "Improvement of Indigenous Peoples' Channel Management Platform Plan" (four-year term) since 2022. The plan aims to promote the sustainable development of various industries in indigenous communities. In response to changes in market strategies, the plan flexibly adjusts and develops more indigenous cultural product content, strengthens the brand of the stores, and converts cultural content into

consumer interest. It also improves the online and offline product service experience to increase customer conversion rates and expand the existing customer base.

(2) Promoting Indigenous Coffee to Increase Tourism and Economic Value

Pingtung is Taiwan's largest coffee-growing region, with a planting area of about 340 hectares. To support the coffee industry, the County Government has established the "Pingtung Coffee Park" in the Wulaluzhi tribe, with a coffee exhibition center, coffee experience center, and coffee technology center (the first in Taiwan to meet the "full organic coffee post-processing verification" field). This will help to drive the independent development of Pingtung's coffee industry and increase its economic value.

The County Government is also working hard to promote Pingtung coffee. In 2022, it held the first Pingtung Coffee Festival, and expanded the participation to include three national competitions: the Specialty Coffee Bean Appraisal, the Coffee Drip Competition, and the Taiwan Elite Coffee. These competitions will help to improve the quality of Pingtung coffee by providing opportunities for interaction and exchange with coffee producers from other counties.

In the future, the County Government plans to combine County Highway 185 attractions to create exclusive deep-dive travel itineraries, increasing the richness of tourism.



Coffee Exhibition Center



2022 Pingtung Coffee Festival



World Champion Demonstrates Pour-Over Coffee Brewing Techniques

2022

2023

2024~2025

Key Initiatives
<ul style="list-style-type: none"> Market Analysis and Research Adjustment Based on Market Research

- Market Analysis and Research
- Adjustment Based on Market Research

- Brand Marketing
- Increase Visitor Traffic

- Adjust and Improve Product and Service Experience

4. Promoting Indigenous Languages and Revitalizing Indigenous Cultural Industries

(1) Pioneering the "Indigenous Cultural Broker" Certification

To empower indigenous cultural resources, business models, and art brokerage skills, the County Government has promoted an indigenous cultural industry talent development center and launched the "Indigenous Cultural Broker" training program. The program is divided into two phases: the first phase is a basic course on the sustainable development of cultural industries, and the second phase is an advanced course that focuses on craftsmanship innovation, community managers, and guided tours. After nearly six months of training, 15 students have passed the certification. They will help indigenous creators to increase their professional knowledge in cultural licensing, cultural assets, and art brokerage, and inject new vitality into the development of indigenous culture and industries.

(2) Opening the Indigenous Tribal University

The County Government is committed to promoting lifelong education for all people. To this end, it has established the Indigenous Tribal University, which focuses on the two main pillars of "developing indigenous traditional knowledge systems" and "cultivating tribal talents." The university actively connects with resources from all sectors to promote these goals, emphasizing the revitalization, preservation, and carryover of indigenous culture. It also promotes cooperation and understanding between different ethnic groups by promoting indigenous culture and understanding each other's cultural contexts and uniqueness.

The curriculum is designed to address contemporary tribal development issues. It is divided into four major areas: "ethnic culture," "language education," "industry development,"

and "life skills." Courses can be cross-disciplinary across these areas. The university also partners with local tribal organizations, such as community development associations, youth associations, cultural health centers, and indigenous family service centers, to offer courses in each tribe. This helps to promote participation of local indigenous people.

To date, the university has offered at least 40 courses each year, with over 500 participants each year. In the future, the university will continue to play the role of a "mobile classroom," proactively offering courses in indigenous communities and bringing resources to each tribe to promote localized learning.

(3) Supporting Indigenous Language Promotion Staff

To implement the Indigenous Language Development Act, which stipulates the preservation, development, use, and carryover of indigenous languages, the County Government is proactively promoting the use of indigenous languages in families, communities, workplaces, gatherings, and public places. Currently, there are 13 indigenous language promotion staff in the County, covering Paiwan, Rukai, and Amis languages. Their main task is to create a friendly environment for indigenous languages. They also assist government agencies in promoting indigenous language revitalization, mentoring indigenous language caretakers, and collecting and recording language data. Each language promotion staff is required to promote indigenous languages for at least 576 hours per year.

The County Government has been working hard to develop and revitalize indigenous languages for years. In 2021, it was awarded the "Indigenous Language Promotion Award" by the Executive Yuan on International Mother Language Day, the only award-winning agency in Taiwan. The County's indigenous language promotion staff,

Taiwan Paiwan Language Cultural Education Research Association, was also awarded the Indigenous Language Promotion Organization Award.

5. Promoting Indigenous Culture

(1) Organizing Indigenous Arts and Cultural Events

a. The Arts Festival on the Hills

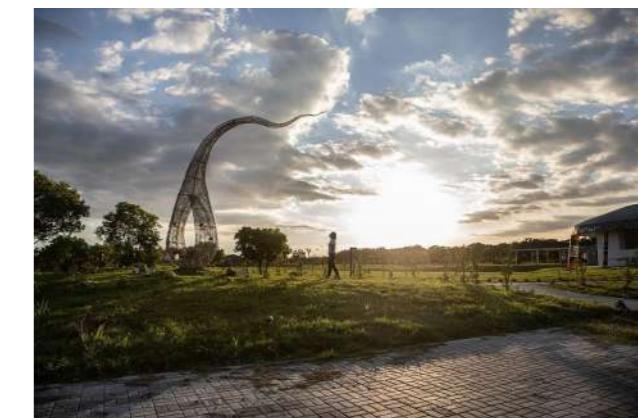
Pingtung is a city of happiness where diverse ethnic groups coexist and share. In recent years, the singing, dancing, and art of the indigenous peoples of this County have flown over the mountains and blossomed on international stage. In order to preserve the rich culture of the indigenous peoples and promote this culture that has touched the world, the County Government has been holding the "On the Hills" series of arts and music events since 2015. With the cooperation of indigenous art workers and businesses, the "On the Hills" series brand have been successfully established, such as the "Arts Festival on the Hills", the "Music Festival on the Hills", and the "Literature on the Hills Award". In 2018, they were consolidated into the "Arts Festival on the Hills", which shares the unique indigenous charm of Pingtung with everyone through music, art, and markets!

From 2019 to 2022, the theme of the "Arts Festival on the Hills" responded to nationwide policy issues of land planning and forest co-management. In cooperation with the Forestry Bureau and the Council of Agriculture, the event venue was moved to the Linhousilin Plain Forest Park. Every year, it attracts more than 100,000 people to participate and enjoy the beauty of "culture on the hills".

The County Government is currently organizing the Band on the Hills Competition to encourage tribesmen to incorporate their native languages into their musical lives, so that the cultural life

of the tribes can be passed on sustainably. The "Rocking on the Hills" album released in 2020 was entered in the 2021 Golden Melody Awards, bringing slope culture to a higher level. The Band on the Hills album "Nasi, the Beginning of Sound" won three silver awards for composition, album, and album design at the 2023 Global Music Awards (GMA), bringing Taiwanese indigenous music to the international stage.

In addition, the "Heart of Tribe" created by a great artist of the Paiwan tribe in this County won the silver award for sculpture design in the 2023 American "Muse Design Awards". It fully presents the charm of the life of the indigenous people of Pingtung and shows the world the creation of Taiwanese indigenous art.



"Heart of Tribe" Wins Silver Award for Sculpture Design at the 2023 American Muse Design Awards

b. Pingtung Indigenous Harvest Festival "The Harvest is Plenty"

Every July and August is the harvest season in the indigenous villages of Taiwan. Each village holds a harvest festival, which is a time of gratitude and celebration of the harvest. The festival is similar to the Lunar New Year for Han Chinese.

To continue this tradition and spirit of culture, Pingtung County Government has been organizing a county-wide harvest festival called "The Harvest is Plenty" since 2017. The festival features traditional rituals, traditional competitions and games, traditional singing and dancing performances, a special products market, and an evening music concert by young indigenous artists.

The festival provides a platform for indigenous people to come together and share their culture with Han Chinese friends. It also helps to promote understanding and respect between different cultures. The festival has become one of the most well-known indigenous harvest festivals in Taiwan.

The 2023 Pingtung Indigenous Harvest Festival continued to bring together indigenous villages, communities, and urban groups. The festival was themed "The Harvest is Plenty," and it showcased the diversity and beauty of the three major indigenous groups in Pingtung County: the Paiwan, Rukai, and Amis. The festival attracted over 15,000 participants.

(2) Founded the "Pingtung Indigenous Museum"

To give new value to the Pingtung Tobacco Factory, which has a history of over 80 years, Pingtung County Government established the "Pingtung Tobacco 1936 Cultural Base" to create an arts and cultural space rooted in the local community. On February 25, 2023, the "Pingtung



Indigenous harvest festival



Performance of traditional rituals

"Indigenous Museum" with functions of archiving, research, exhibition, education, and entertainment was officially opened in the park.

The museum is divided into general and featured exhibition areas. The permanent general exhibition is themed "The People on the Hills," showcasing indigenous architecture, artifacts, and artworks. It uses digital and sound technology to create an immersive atmosphere that presents the culture and lifestyle of the Pingtung indigenous people. The featured exhibition area will regularly change



Opening event of the "Pingtung Indigenous Museum"

its theme to showcase the diversity and richness of indigenous traditions, culture, and art.

As of July, the museum has held one general exhibition, two featured exhibitions, two small art galleries, and two educational promotion events. Over 25,000 people have visited the museum. In the future, it is planned to host more featured exhibitions, sharing lectures, and cultural experience events to promote indigenous cultural and artistic energy.

6. Promotion of "Bogong Care Stations"

In response to the aging society and to encourage the golden population to participate in community activities, Pingtung County Government has responded to the "Bogong Care Station" policy by providing guidance to C-level neighborhood long-term care stations in the County's Hakka priority development areas to implement the program. By providing Hakka cultural activity courses at the stations, the program aims to provide care for the elderly in Hakka villages. The program also utilizes a "children and the elderly having fun together" mechanism to collaborate with elementary schools or kindergartens near the stations. With the elderly as teachers and Hakka as the main communication language, the program helps to preserve Hakka language and culture.

In 2022, there were a total of 19 stations participating in the program, covering eight townships in the Hakka priority development areas. The program organized a total of 442 courses and events, with approximately 10,204 participants.

7. Rescue Hakka Language Campaign

(1) Promote all-age Hakka immersion learning

Pingtung County Government upholds the principle of ethnic harmony and well-being, and sees language as the most important tool for the sustainable carrying forward of culture. Starting from schools, families, and communities, the County has been actively promoting Hakka immersion teaching since 2007. It is the first county in the country to promote Hakka mother tongue education. In the 2023 academic year, a total of 18 schools and 37 classes, with a total of 805 students, participated. The County also holds teacher training courses every year to improve the professional knowledge and interest of Hakka immersion teaching teachers.

Recognizing that the family is the core of language preservation, the County Government launched the "Hakka Language Learning Family Plan" in 2015 to organize parent-child Hakka learning classes. These classes use a variety of interactive modes to design educational and entertaining courses to increase opportunities for families to use Hakka. In 2023, a total of 16 classes were opened, with about 240 participants, continuing to implement the vision of Hakka revitalization.

To preserve Hakka language and culture, Pingtung County Government's Department



Wanlun Township Public Kindergarten Implements Hakka Immersion Teaching

of Hakka Affairs and the Department of Social Affairs have collaborated to create the first Hakka language nest for infants and toddlers in Taiwan, following the model of the Maori language nest in New Zealand. The nest is located in the Pingtung Township Community Public Daycare Home. Four main caregivers have been hired to teach 12 infants and toddlers Hakka in a natural and interactive way. The caregivers create a high-quality Hakka learning and living environment for the infants and toddlers, allowing them to grow up in a Hakka-speaking environment and lay the foundation for Hakka language preservation from a young age. The County Government plans to use parent-teacher meetings and parent-child games to raise parents' awareness and action for Hakka preservation. The program will also be propagated to more Hakka townships, so that Hakka preservation can begin from the moment babies start to speak.



Hsueh-Cheng Kindergarten Implements Hakka Immersion Teaching



Neipu Community Public Daycare Home Becomes Taiwan's First Infant and Toddler Hakka Language Nest

(2) Promote Hakka Language Proficiency Certification and Study Programs

Pingtung County Government is proactively promoting Hakka as a common language by organizing relevant courses and workshops. For example, the County has held "Hakka Broadcasting Experience Camps" and "Hakka Voice Actor Training Camps". These camps are taught by professional journalists and Hakka teachers. They provide training courses in voice acting, news writing, dubbing, and news broadcasting skills, which helps Hakka certification holders improve their Hakka application skills and establish self-worth. In 2022, the County also held its first "Hakka Language Study Program for the Workplace" to provide long-term care facility staff with a channel to learn Hakka. This allows the elderly who only speak Hakka to feel the warmth of friendly service.

(3) Hakka Storytelling Master Training and Touring Performances

To create a Hakka immersion learning environment where children can naturally learn Hakka in a relaxed and fun setting, Pingtung County Government held its first "Hakka Storytelling Master Training" in 2022. The training program recruited community amateurs and volunteer parents to participate in training courses. The trained volunteers then toured to various public spaces, libraries, schools, and villages in the County to give Hakka storytelling performances. These performances helped to promote Hakka in a fun and engaging way. In 2022, 13 people completed the training program, and 13 Hakka storytelling performances were held, with a total of 920 participants. The events were expanded to include non-Hakka priority townships in the County. The County Government will continue to organize Hakka storytelling community tours and regularly host Hakka storytelling events at the Hakka Cultural Center

to promote Hakka language and culture among children.



Hakka Storytelling Master Training



Hakka Storytelling Performances

(4) Partnering with community groups to organize Hakka festival arts and cultural events

Panhua is a unique flower arrangement form used by Hakka people in the Liudui area to worship their gods. It represents the Hakka people's culture of respecting heaven and cherishing material goods. The circular arrangement expresses their sincere respect for the gods and has both cultural and aesthetic significance.

The Pingtung County Government hosted its first "Panhua Art Festival: Water Reflecting Floral Fragrance" event on April 23, 2022. The event included panhua art workshops, mobile art, queue-top retro costume experiences, panhua photography, and static panhua art installations. It also incorporated the waterside landscape

of the Citizens' Park. On site, 300 people of all ages gathered to learn and create a panhua art corridor together. Visitors were invited to take pictures to capture the mobile art in beautiful and timeless images.



2022 Panhua Art Festival: Water Reflecting Floral Fragrance

8. Hakka Culture Experience Center Marketing

To enhance in-depth guided tours and cultural experiences in Hakka communities, Pingtung County Government was the first in the country to establish a "Hakka Cultural Tourism Tour Guide Certification System" in 2020. Four experience centers were established in Jiadong Township, Zhutian Township, Gaoshu Township, and Xinpi Township to shape the professional and brand image of tour guides. The County Government also integrated complementary services such as featured industries, food, souvenirs, accommodation, and itineraries in Liudui area to lead tourists to experience the natural, cultural, and industrial aspects of Hakka communities. This has had a significant impact on the development



Hakka Cultural and Tourism Tour Guide Training Course

of the Hakka cultural tourism industry and the local economy.

In 2022, four additional experience centers were added in Changzhi Township, Wanluan Township, Neipu Township, and Linluo Township. This completes the system for Hakka cultural experience tours and marketing. In order to connect with the international community, the County Government has implemented a trilingual policy and launched bilingual tour guide training courses to improve the bilingual tour guide skills of Hakka cultural tourism. This will help to connect the local market and language with the world.

To date, 109 tour guides have passed the certification and provided guided services to over 5,000 people. The County Government will continue to provide support and guidance, organize in-service training courses for tour guides, and promote cooperation with related industries. In addition, eight experience centers will be integrated to establish performance evaluation criteria for Hakka culture experience centers in the County. This will help to connect itineraries and industries and establish a Hakka brand symbol.

9. Building the “Pingtung Cocoa Taiwan Chocolate” Brand Value

Pingtung cocoa chocolate has unique industrial characteristics and is a new representative industry in the Hakka region of Pingtung. In order to promote and drive the sustainable development of the cocoa industry, the Pingtung County Government built the first Hakka "Pingtung Cocoa Chocolate Park" in the Xienfengdui of Liudui, Wanluan Township in 2021. The park uses an educational and entertaining approach to promote Pingtung cocoa chocolate and create a benchmark for innovative and added value in local specialty industries, while also invigorating the local tourism industry. Currently, 21 Pingtung

cocoa chocolate brands are stationed in the park, selling over 100 cocoa chocolate products. In addition, there are 8 brands of local agricultural products and handicrafts from Pingtung, and the park is also developing its own brands of snacks and drinks. In 2022, the park received over 33,000 visitors and generated over NT\$3 million in revenue.

In order to assist businesses in establishing safe and hygienic cocoa chocolate brands, Pingtung County Government launched a cocoa inspection project in 2022. The project tested for aflatoxin and polycyclic aromatic hydrocarbons (PAHs) in chocolate and related products to ensure food safety for consumers and increase public confidence in the Pingtung brand. In the same year, the County Government published a cocoa picture book in Chinese, English, and Hakka. The book uses a literary and artistic perspective to explore cocoa knowledge and attracts readers with its humorous stories. It also helps to connect with the international community and local audiences. The book was also accompanied by an AR interactive software that is available at the AR Museum of the Pingtung Cocoa Chocolate Park for visitors to experience. This helps to promote public understanding of the new cocoa chocolate industry in Pingtung.

In addition, the County Government continues to promote the brand and integrate marketing



Hakka, Mandarin, and English Cocoa Picture Books

strategies to build Pingtung as a sweet chocolate producing area. For example, the County Government won the bid to host the ICA (International Chocolate Awards) World Chocolate Grand Prix Asia-Pacific competition in Pingtung in 2019 and 2020. This allowed local businesses to enter the international market. The unique flavors of local brands have also been recognized in major international competitions, and by 2022, the total number of medals won by local brands in international competitions has reached 343.

10. Hakka Event Promotion

(1) Liudui 300 Historical Drama

Liudui has a rich history and cultural heritage, with a deep and refined history and memories of various challenges that one can hardly stop once the storytelling begins. In 2022, in order to let everyone understand the history and glory of the Liudui over the past 300 years, Pingtung County Government in 2022 invited the world-renowned Ming Hua Yuan to stage a new production of the story "Bloodbath at Bu Yue and Chang Hsing", based on the site of the first battle of the Liudui Hakka Resistance against the Japanese army at Bu Yue Building during the Battle of Liudui in 1895, as well as the last stand at Chang Hsing Village. The entire play is a cross-border musical theater that combines Hakka opera, Taiwanese opera, and modern drama. Through contemporary dance, music, and visual art performances that transcend language, race, and genre, the most notable moments that shook the hearts of the people of Liudui over its three hundred years of history is once again presented. The number of participants exceeded 20,000.

(2) 2023 Liudui Blessing Pole

The "pole" originated from the hostility alarm used by ancestors of Liudui Hakka community. Over time, it has gradually evolved into an entertainment event used during the Lantern Festival to strengthen the militia to defend the homeland and pray for peace to the village guardian deity. For over a hundred years, this traditional folk custom has been held every year in Wuguishui, Wanluan Township, the first Hakka settlement designated for preservation in the country, without interruption.

In order to implement the spirit of equality and protect diversity in the Constitution, the County Government has supported Wuguishui's century-old persistence, and since 2006, it has propagated this traditional folk custom to Liudui, reawakening the sense of unity in the Hakka community and allowing more people to understand, approach, and experience the unique Hakka culture. In 2010, it was even recognized by the Hakka Affairs Council and listed the Liudui Blessing Pole event as one of the twelve major Hakka festivals in the country.

The 2023 Liudui Blessing Pole event combines the rich cultural heritage and ecology of Wuguishui, with both local cultural patterns and educational implications. It is also the first in the country to host a Hakka festival event in both Hakka and English, providing Hakka and English guided tours to open up a new perspective. It also invites international students in Taiwan to participate, and through cultural exchanges, it conveys the uniqueness and inclusiveness of Hakka culture. In addition to the traditional team and individual blessing pole competitions, water ball blessing pole, prayer series activities, Wuguishui augmented reality games, tour experiences, art performances, and creative markets from previous years, it also added a water gun siege battlefield for having fun with family, a New Year's gambling challenge, a multi-cultural

DIY handicraft, and a blessing pole experience tour led by a Hakka cultural guide. Participants walked through traditional Hakka architecture in Wuguishui, experienced farming, enjoyed laterns, night tours and secret spots of water canals, with over 10,000 participants.

(3) 2022 Pingtung Rice Noodle Culture Festival

The Pingtung Rice Noodle Culture Festival, the annual Hakka food feast of Pingtung, has entered its 8th year since its inception in 2015. It is committed to promoting Hakka cuisine and enhancing the industry's service capabilities. To date, it has accumulated a production value of NT\$50 million and peripheral benefits, attracting over 200,000 visits. It has also assisted over 100 rice noodle shops, successfully creating the "three kinds of rice noodles" brand, which includes Hakka rice flour noodles, Minnan glutinous rice cakes, and new immigrant rice noodles. This has added value to the local traditional industry and increased the willingness of the younger generation to invest or take over.

In order to let more people know the beauty of the Liudui food culture, the 2022 event broke away from the previous model of joint exhibition and sale markets. It focused on "small trips" and launched food-led tourism experience services.



Blessing Pole Experience Activity

It led people to explore Pingtung, eating local food, visiting local attractions, and buying local products. It also launched 5 thematic itineraries with a total of 30 sessions to learn about Liudui with taste buds. It also held the "Rice Noodles Stir-Fry Flash Mob" event for the first time at the Ximen Square in Hengchun. It invited well-known chefs from all over Taiwan to cook special rice noodle dishes, promoting Hakka cuisine to the outside world. The event attracted about 4,500 people and generated about NT\$500,000 in revenue and peripheral benefits, promoting the added value of Hakka cultural industries and driving tourism.

In addition, since 2023, the Pingtung Rice Noodle Culture Festival will be expanded and transformed into the "Pingtung Hakka Rice Food Festival" to further promote the industry's marketing potential. It will bring together rice-based food industries in the county for mutual exchange. It plans to include a rice market, limited rice food sets, Hakka cultural small trips, and art performances. It will promote the development of Hakka tourism, promote local rice food culture, strengthen the connection between local food and ethnic culture, and mobilize local participation to promote Pingtung Hakka good products and attractions.



Rice Noodles Stir-Fry Flash Mob Event

11. Creating Hakka Cultural Spaces and Waterside Highlights

(1) "Winding Longjing River connects People with the water" Longjing River Waterside Environment Improvement Project

In order to achieve the sustainable carrying forward of Hakka culture and let more people know the beauty and excitement of Longjing River, the County Government takes Hakka waterside, cultural settlements, and recreational tourism as the starting point, integrating the living memories and historical stories of Longjing River waterside into the waterside landscape, enhancing the historical heritage significance of Hakka settlements; and combined with the guided tour program of the community development association, promote Hakka culture and waterside history, and strengthen the self-consciousness of local Hakka settlements.

The construction is linked and integrated with the surrounding potential factors in a way of point (Nanpu and Zhutian areas), line (connection between the two areas), and plane (Longjing River waterside corridor), linking the riverside landscape and the texture of the settlements, and exploring the existing cultural resources around the area, such as Hakka settlements, historical buildings, folk customs and rituals, traditional skills, and industries. At the same time, it is linked with the surrounding public facilities and constructions to form a "Southern Hakka Slow Living" experience platform, creating a Hakka cultural landscape belonging to the Longjing River waterfront and revitalizing the surrounding field space.

From the middle and upper reaches of Longjing River (Neipu area), along the Hakka belief "Bagong" corridor, ancestral hall, and the newly built small family-friendly playground, the waterscape of the area is being created. In the

lower reaches of Longjing River (Zhutian area), a family-friendly playground with Hakka paper-cutting art and a Pingtung Push bike scooter experience area are being built. In June 2023, the bicycle track along the shore will be fully completed, connecting historical and cultural resources such as "Dada Harbor", "Respect Word Pavilion" and "Pioneer History Square". In the future, this model of demonstrative construction will be continued, and gradually built with the infrastructure projects along Longjing River to create a "new type of Southern Hakka Slow Living Trekking Platform", strengthen tourists' understanding of Hakka culture, and revitalize the overall Longjing River basin environment, becoming a new highlight destination in Pingtung.

(2) Jiaodong Township, "Qiaodongjiao Cultural Plaza Living Environment Improvement Project"

Qiaodongjiao Cultural Plaza is located next to the Three Mountain Kings Temple Square and the Xiao Family Old House Square. Due to its use as a market on weekdays, vehicles pass frequently. The newly laid surface cannot bear the pressure of the passing vehicles, causing the pavement to become uneven and dangerous to walk on. In addition, it is suspected that the insufficient design of the drainage system caused flooding in the residential areas on the west side of the square, causing inconvenience to local residents.

In the Qiedongjiao area of Liugen Village in Jiaodong Township, a cultural plaza was planned and designed to include the Three Mountain Kings Temple courtyard, the water pond square in front of the Xiao Family Old House, the Jingzi Word Pavilion square, the Poet's Trail along Donggen Road to Zhang's Commercial Building, and the area behind Bu Yue Building along Goudi Road Lane 242. The plaza was built with new pavement and drainage systems improvement to make the area's open space stand out and meet the needs of local users. The plaza also integrates

important cultural and historical sites from the original Qiedongjiao Cultural Map. The new signage system connects the map to the real-world historical streets, creating a stronger sense of place. The environmental improvement project was completed in December 2021.

(3) The overall renovation and education guidance system installation plan for the Wuguoshui Canal Liu Family Dawo Ancestral Hall in Wanluan

The Liu Family Dawo Ancestral Hall of the Pengcheng Hall has only been repaired once with the assistance of the public sector after the 2009 Typhoon Morakot. The subsequent repairs were all carried out by the owners and residents of the Liu Family Dawo Ancestral Hall at their own expense, without any funding from the public sector.

Considering that the Liu Family Dawo Ancestral Hall is old, but still has residents living there, and there has been no full-scale renovation in the past. For safety reasons, the County Government has launched a comprehensive rescue renovation plan since 2019, including the restoration of the space behind the ancestral hall near the spring water (Wuguo Creek), the planning and presentation of the toilet and kitchen space, and the overall renovation of the ancestral hall. We will do our best to preserve the original appearance of the historical building and highlight its cultural value. In addition, the ancestral hall is of great cultural value, and we have also installed building signs and a guidance system for tourist interpretation and education in Wuguoshui Village. This revitalization and reuse project is expected to be completed by the end of August 2024.

12. Enhancing the Rights of New Immigrants and Promoting Public Participation

(1) Ensuring the Welfare of New Immigrants

a. Integrating Local Services by Establishing New Immigrant Family Service Centers

In order to help new immigrants settle in Pingtung and demonstrate the spirit of local service, the County Government established three new immigrant family service centers in 2004, one each in Pingtung City, Donggang Township, and Hengchun Township. These centers serve as contacts for new immigrant families seeking related resources and services. They provide case management, home visits, counseling, and interpretation services to new immigrants and their families. They also offer courses on life adaptation, family support, multicultural community outreach, and interpretation training to help new immigrants adjust to life in Taiwan. In 2022, the centers provided case management for 1,320 cases management cases; 1,616 visits (including home visits and telephone interviews); counseling services for 3,059 cases (including learning courses, employment issues, immigration or documentation issues, family relationships, and legal counseling); and 90 events on various family support programs, life adaptation courses, and multicultural outreach, benefiting approximately 1,645 people.

The new immigrant family service centers in three districts also jointly organized training for new immigrant interpreters. This training provides in-service learning opportunities for new immigrants or children with interpretation experience to improve their translation skills. This helps to ensure the rights of foreigners living in the County and to create a friendly and multicultural environment. In 2022, two training sessions were held, with 138 participants. Currently, there are 39 new immigrant interpreters in the County who

assist with home visits and other tasks to help new immigrants quickly adapt to life in Taiwanese families and communities.

b. New Immigrant Language Education to Reduce Language Learning Barriers

To help new immigrants with life adaptation, the County Government established new immigrant learning centers and strategic alliance schools. These centers offer multicultural learning courses to provide learning opportunities and emotional support, and to create a welcoming and inclusive environment for new immigrants. In 2022, the County continued to operate new immigrant learning centers at Donglong Elementary School (including Dongxing Elementary School) and Hesheng Elementary School (including Chonglan Elementary School, Siwei Elementary School, and Gaoshu Elementary School). The centers offered 28 courses, including seven categories: community education, language learning, people and local culture, family education, legal knowledge, diverse training, and policy promotion. A total of 110 sessions were held, with 1,597 participants. This helped to build a society of multicultural exchange and lifelong learning.

In anticipation of the Ministry of Education's 12-year national curriculum, which included new immigrant languages as one of the language areas in the 2017 academic year, the County Government began offering "New Immigrant Language Teaching Support Personnel Training Courses" in 2016. These courses help schools to implement new immigrant language teaching courses and improve the quality of new immigrant language teaching. As of the end of 2022, a total of 193 people in the County have obtained the qualifications of new immigrant language teaching support personnel. This includes 122 for Vietnamese, 43 for Indonesian, 5 for Thai language, 2 for Burmese, 11 for Malaysian language, and 10 for Filipino language. In the 2023 academic year, a total of 70 schools in the County offered 185 "New Immigrant

Language Courses" in the following languages: Vietnamese, Indonesian, Thai, Malaysian, and Filipino. In addition, 10 schools, including Donghai Elementary School, offered 27 remote learning courses in the following languages: Vietnamese, Indonesian, Thai, Filipino, and Malaysian.

(2) Establishment of the "New Immigrant Affairs Promotion Group"

In order to encourage new immigrants to participate in public affairs and to make new immigrant affairs more organized and institutionalized, the County Government in 2020 invited experts, scholars, and new immigrant representatives to serve as members of the "New Immigrant Affairs Promotion Group". The group integrates resources across departments to implement the eight major service measures for new immigrants, stabilize their lives in Taiwan, create a friendly environment for foreign populations, and create a new society that is diverse and good. In 2022, the group held two meetings, with a total of 68 participants.



Holding a New Immigrant Creative Market

(3) New Immigrant Multi-Cultural Market

To help new immigrants adjust to life in Taiwan, promote their participation in public affairs, and become the seeds of community integration and promotion of diversity, the County Government has been holding a new immigrant multi-cultural market every second Sunday of the month since 2016. The market uses a "social planning model" to enter the community and uses "gathering points"

to promote new immigrant community work. It has created many personal new immigrant brands.

From 2022 to April 2023, a total of 13 markets were hosted, with 421 stalls and 12,640 participants. In the future, the market plans to hold exotic theme days and introduce new products or hidden-gem items. The goal is to create new topics for new immigrants, improve their economic benefits, and establish a brand image that will help more people to know and see the diversity of new immigrants.

13. Revitalization of Historical Sites and Expansion of Cultural Horizons

(1) Restoration and Reuse of the Pingtung Tobacco & Alcohol Culture Base

The Pingtung Tobacco & Alcohol Culture Base (PT1936) was originally a tobacco leaf redrying factory built by the Japanese in 1936. It was closed down in 2002 due to social changes and remained abandoned for nearly 20 years. In 2017, Pingtung County Government expanded the registration of the entire factory area of 4.2 hectares as a historical building. Through the "Revitalization of the Pingtung Tobacco & Alcohol Factory Historical Site Project" and the "Pingtung Grand Museum Project", the County Government promoted the restoration and revitalization of the historical site. In February 2022, the site was renamed the Pingtung Tobacco & Alcohol Culture Base (PT1936) and reborn. It now serves as a cultural base for the convergence of various ethnic cultures in Pingtung, including indigenous, Hakka, Minnan, military dependents, and new immigrants. It has become a museum complex with a rich collection.

The base is based on the strategies of "telling Pingtung stories with industry," "depicting Pingtung's soul with art," and "letting children create Pingtung's future." It plans to establish

the following museums: Pingtung Tobacco Leaf Museum, the Pingtung Hakka Museum, Pingtung Indigenous Museum, the Immersive Experience Museum, Pingtung County Museum of Art, Pingtung County Collection Center, and the Sports Exploration Museum. These museums will create a branded museum complex that will build local cultural confidence and deepen the relationship between residents and the land. The base will also serve as a core for the promotion of the preservation, research, and development of diverse cultures. It will also spread the cultural capacity to revitalize local industries and promote economic development.

The clustered architectural landscape of the base has been connected to form an art and cultural corridor, shaping the aesthetic of Pingtung City. The base also utilizes the power of volunteer service and school education to hold exhibitions and promotional events. As a result, outstanding local creative teams and art groups are active at PT1936. The base has become one of the three major cultural venues in the county, with over 1.12 million visitors as of the end of 2022.



The Current Appearance of the Pingtung Tobacco & Alcohol Culture Base (PT1936)



Pingtung Tobacco Leaf Museum

(2) Preservation and Redevelopment of Japanese-Era Dormitories in Pingtung City

Pingtung Airport was the first formal airport in Taiwan, opening in 1920. To meet operational needs, the city of Pingtung began building Japanese-style military officer dormitories in 1927. After the war, these dormitories were used as housing for military officers and their families, and a large number of enlisted men's dormitories were built to accommodate local military dependents. At one point, the number of dormitories exceeded 5,000, and they had a significant impact on the development of Pingtung City.

As the "Law on the Reconstruction of Old Military Dependents' Housing" was implemented, the city's dormitories were gradually demolished and converted into public housing. To preserve the historical buildings of these dormitories, which are of historical significance, Pingtung County Government has been gradually registering Japanese-era dormitories since 2002. Against the backdrop of the airport, the County Government has promoted two historical site revitalization plans for the Shengli and Chongren Villages. The plans call for the restoration and renovation of the buildings in phases, using original materials and techniques. The goal is to revitalize the city's charm and restore the buildings to their former glory.

Shengli Star Village Creative Living District is the largest and most complete historical building group in Taiwan. The total number of buildings is 78, with 115 households. As of 2023, 73 buildings with 104 households have been restored. There are currently 85 brand stores operating in the district, including independent bookstores, visual arts, fashion design, performing arts, and hospitality businesses. Five of the independent bookstores make this place the most concentrated bookstore cluster in Taiwan.

Since December 2021, the County Government has



Coexistence of Heritage and Planting

continued to revitalize the historical buildings of the Chongren New Village (Tunghai District), Chongren New Village (Kong-Hsiang District), and Shengli New Village. Under the design theme of "Time and Light," the County Government has partnered with architects, cultural heritage experts, artists, and structural engineers to deconstruct old buildings that are difficult to fully restore. Old materials such as tiles, wood beams, mosaic tiles, and window grilles have been reused to create an artistic landscape that blends the past and present. The result is the Pingtung City Japanese-Era Dormitory Ruins Park, a place where history and culture coexist.

The park is divided into two sections: De-Sheng District and Kong-Hsiang District. De-Sheng District opened to the public in June 2022 and quickly became a popular tourist destination. The Kong-Hsiang District opened in June 2023, providing the city with a new place for local residents and visitors to relax, explore, exercise, and participate in cultural events. The second phase of the Chongren New Village (Tunghai



Water Environment

District) project is expected to be completed by the end of 2023 and will be used as a hostel. It will be a base for people to experience Taiwanese new-style military dependents' culture and lifestyle.

(3) Flowing for a Century: A Series of Events to Commemorate the Centennial of the Erfeng Dam

In the years 1921 to 1923, Japanese hydraulic engineer Torii Nobuhei built the Erfeng Dam to irrigate Pingtung Plain. The dam not only helped to nurture the development of Pingtung's industries and cultural heritage, but it has also become a model for underground reservoirs and groundwater facilities in recent years. It is a great hydraulic engineering feat in Taiwan.

To honor the historical significance and importance of this water collection gallery, the Pingtung County Government registered it as a national-level cultural landscape under the Cultural Heritage Preservation Act in 2008.

After a century, the Erfeng Dam is still functioning well. To celebrate the dam's centennial, the County Government held a series of events in 2022 under the theme of "Thank you, Erfeng Dam." The events were organized by a cross-departmental team from the County's cultural, educational, indigenous, and agricultural agencies. They included the "Erfeng Underground Flow, Pingtung FLOW" centennial exhibition, an international conference, cultural landscape tours, environmental theater, storytime with picture books, the "Abundant Sun" market, and a performance by the Paper Windmill Theater. These events helped the public to learn about the Erfeng Dam's natural ecological balance design and cultural heritage value, as well as the agricultural water conservancy, ecological tourism, and cultural history of this land. They also helped to promote the sustainable protection and development of tourism resources.



The Centennial Commemoration Ceremony of the Erfeng Dam

(4) Building a Pingtung Cultural and Creative Brand

Pingtung is a traditional agricultural county. To develop a truly distinctive Pingtung identity, the County Government has been promoting the "Pingtung City Cultural and Creative Brand Development Plan" since 2020. The plan aims to discover and strengthen the County's soft and hard strengths in the cultural and creative industries, and to showcase the unique taste and perspective of the southernmost tip of Taiwan.

In 2022, the County Government held a "Star-Making Selection Program" to select 15 promising cultural and creative brands. The government also assembled a team of experts in brand consulting, marketing channels, lifestyle creative aesthetics, and visual design to provide one-on-one counseling to the selected brands. The counseling sessions, which lasted a total of 45 hours, analyzed the brands' strengths and weaknesses from a professional perspective and provided advice and resource connections.

Building on the results of the 2021 counseling program and the 2022 Star-Making Selection Program, the County Government led 25 Pingtung cultural and creative brands to participate in the 2022 Taiwan Creative Expo. The brands conveyed the core values and content of the Pingtung city brand. The County Government also collaborated with Pinkoi to create a "Pingtung Sensibility" theme gallery on the online platform, and hosted an offline exhibition of 15 cultural and creative brands

at the Pingtung 1936 Cultural Base's "Pingtung Good Ping Manufacturing". These initiatives helped to promote and sell the brands physically, and pave the way for them to enter the international cultural and creative market.

(5) Peninsula Folk Song Festival and Arts Education Program

Hengchun folk songs are an important cultural root. Although they do not have elaborate lyrics, they are a manifestation of everyday emotions. The Pingtung County Government has been hosting the Pingtung International Folk Song Festival since 2008. Over the past decade, the festival has been deeply rooted in communities and schools, and in 2015, it even set a Guinness World Record for 1,000 people singing folk songs together.

In order to connect traditional folk songs with the world, the festival was rebranded as the "Peninsula Folk Song Festival" in 2018. With "Hengchun folk songs" as its foundation, the festival adheres to four key themes: "cultural roots," "site-specific creation," "cross-border innovation," and "world music." It is an international arts festival that combines local culture, world music, folk songs, peninsula folk songs, natural landscapes, and community ecology.

The 2022 Peninsula Folk Song Festival presented the charm of peninsula folk songs in a variety of innovative ways, including a folk song fashion show, a folk song poetry theater, old tunes with a new voice, a folk song competition, a specialty market, and a small trip to the ancient city. A total of 52,000 people watched the festival.

The fashion show, which was held in the century-old Hengchun Ancient City, was the first in Taiwan to combine peninsula elements with folk song music. The show featured a team of international fashion designers led by Daniel Wong, who explored the beauty of Hengchun and the moon lute. Japanese singer Natsukawa Rimi was also

invited to perform with folk song masters, making the event a significant international exchange. The event won the Japan GOOD DESIGN Award, the Taiwan Golden Pin Design Award, and the 2022 Taiwan Design Best 100. The local team "You need tanning" won the 2022 Taiwan Original Pop Music Award (Hoklo Language Category) from the Ministry of Culture.

In response to the aging of folk song masters, the County Government has been proactively cultivating a new generation of folk song inheritors in recent years. The "Arts Education Program - Hengchun Folk Song Carrying Forward Plan" provides subsidies to communities and schools on the Hengchun Peninsula for folk song carrying forward training courses and promotional activities. The program is deepening its efforts from three perspectives: "folk song foundation," "carrying forward through education," and "art performance." In 2022, a total of seven kindergartens, 15 schools (from elementary school to high school), five associations, and four senior citizen centers participated in the program, setting a new record. The folk song competition also attracted over 600 participants, another record high. The County Government also completed the production of 15 episodes of a folk song podcast, the editing of two teaching materials, "Hengchun Peninsula Folk Song Story Collection" and "Manzhou Folk Song Poetry Collection," and other activities to further root Hengchun folk songs.



The First Fashion Show in a Hundred-Year-Old Ancient City in Taiwan

(6) Arts and Cultural Activities

Promotion

To promote the Pingtung Performing Arts Center's concert hall, the County Government plans a series of "Southern Music Festival" programs from September to December each year. The festival is centered around the "Studio Sound Music Festival", which invites renowned music professionals from Taiwan and abroad to gather in the south. The festival also features a variety of programs, including classical, folk, vocal, and video theater, to attract music lovers of all ages and interests to the venue.

The 2022 Southern Music Festival focused on the two themes of "national" and "vocal". From classical music pieces of the national school, to innovative vocal pieces, the festival showcased how musicians of different genres and nationalities express the sounds of homeland in their own way. A total of 10 self-organized programs were planned, attracting approximately 4,000 people to attend. Taipei Philharmonic Orchestra also presented a unique creation, "Hengchun Mountain and Sea Symphony", which is a mark of Pingtung on the world music map. The symphony was performed nine times.

In addition, the County Government has implemented cultural equity and promoted large-scale outdoor performances, providing citizens with the opportunity to watch international-level performances up close. In December 2022, the County Government invited the Paper Windmill Theater to stage an outdoor performance of "Nezha Conquers the Dragon Palace" and held a "Sarah Brightman Christmas Party Concert" at the County's stadium. This concert was the final performance of the music artist's tour in Taiwan. The two events attracted over 12,000 spectators.

(7) Promoting Reading for All Ages

Pingtung is a microcosm of Taiwan, with a diverse population that has migrated and settled in the area for centuries. This has led to a rich history and culture, with a variety of perspectives. To help people understand their hometown, from its geology, climate, culture and history, Pingtung County Government launched the "Southern Reading Festival" in 2019. The festival is dedicated to making Pingtung a city of reading and spreading the power of reading to all.

The 2022 Southern Reading Festival was themed "The Multiverse of the South". It brought together nearly 100 cultural figures to explore topics from literature, theater, and music to Pingtung's local industries. The festival lasted for three months and featured over 50 lectures, performances, train rides, walks, and markets. It attracted over 20,000 participants, showcasing the unique charm of Pingtung and connecting the city with the world.

One of the highlights of the festival was the "Mountain and Sea Journey: Reading Pingtung" train ride. The five-day train ride combined industry themes with cultural performances. Industry experts led participants on a journey through the mountains and seas of Pingtung, while art teams performed on the train. This innovation made reading more dynamic and engaging, and helped to establish the Southern Reading Festival as the largest and most romantic reading festival in Taiwan.

The County Government also held a variety of other themed reading promotion activities. Pingtung County Library coordinated with the County's branch libraries to offer baby lectures, family theater, and parent-child reading clubs, which helped to foster a love of reading in infants and young children. The County also held English learning activities, such as two monthly "English Picture Book Story Time" sessions and a series of "Fun English Learning" activities. These activities helped to promote English learning and attracted over 2,000 participants in 2022.

The County also hosted a children's hometown story picture book exhibition, which featured stories written by elementary school students. Four live storytelling sessions were held, allowing readers to follow the imaginations of the young writers. The County also responded to the National Library's Taiwan Reading Festival by offering lectures and workshops on parent-child handcrafts and interaction. These activities brought libraries into people's lives and helped them to experience the diversity and innovation of reading.



Blue-Skin Train



Fang Wen-shan's "When You Are a Person with Stories to Tell"



Rueyuan x Lan Zor-wei's "Discovering the New Charm of Culture Through Images"



Chapter 5 | Strategy and Action

Environmental justice and connecting with the world

The frequency and intensity of extreme weather events are increasing, and climate change is now an international consensus. As a member of the global community, Pingtung County must work with international partners to shoulder its responsibility for reducing global carbon emissions. We participate in various international evaluations, initiatives, and forums to share Pingtung County's efforts and achievements on environmental issues with the world. By sharing experiences, exchanging ideas, and learning from each other, we can contribute to climate action and practice "SDG 17: Partnerships for the Goals."



Reinventing "Citizens' Park" landscape to create an outdoor museum with a history, river, and urban memory which appears on the international stage and polishes the unique brand of Pingtung.
Photo courtesy of Yi-Hsien Lee and Associates YHLA

Chapter 5 | Strategy and Action

Environmental justice and connecting with the world



1. Pingtung County has achieved the Leadership Level of CDP (Carbon Disclosure Program) for the past 4 years (2020-2023)

(1) Restoration and Reuse of the Pingtung Tobacco & Alcohol Culture Base

CDP is the gold standard of global carbon disclosure that encourages public and private sectors to measure, manage, and reduce greenhouse gas emissions to mitigate the impact of climate change. CDP asks organizations to disclose their climate change risks, assessments, data, plans, and implementation strategies and results through a questionnaire, and publishes the level of climate change response and sustainable development promotion of each unit.

After years of effort, Pingtung County has continued to follow CDP's recommendations, with each bureau and department jointly studying and revising them. This includes strategies and goals such as sustainable water resources, increasing the proportion of renewable energy, reducing carbon emissions, and improving public transportation. From 2020 to 2023, Pingtung County has achieved the good results of being a leading city for four consecutive years.

2. Participation in Global Smart Solutions (GSSR)

To implement the climate goals of the Paris Agreement and practice the SDGs, ICLEI KCC (ICLEI Kaohsiung Capacity Center), the International Climate Development Think Tank, CityNet, and WeGo, etc., have launched a global call for submissions for the Global Smart Solutions Report (GSSR). By collecting the challenges and smart solutions faced by cities around the world, it creates a platform for sharing experiences.

Pingtung County Government has won several awards in the past few years, including:

- In 2022, the County Government submitted an article entitled "Photovoltaic Planting for the Green Future on the Forgotten Land - Gaoshu PV Project" to share how a former mining site was successfully transformed into a green energy project. The article won the "Best Practice Award for Green Investment".
- In 2023, the County Government continued its efforts by submitting an article entitled "Building a Green City with Climate Resilience and Sustainability within a Zero Budget Model". The article promoted a zero-budget model that combines resources from the people as well as private and government sectors. The County Government's strategy for developing photovoltaics was again recognized with the highest score in the "Reproducibility and Scalability" indicator.

3. Participation in domestic and international forums, journal publications, and conferences to enhance the visibility of the County

(1) "International Conference on the Centennial Anniversary of Erfeng Irrigation Canal"

In 2022, the Pingtung County Government held the "International Conference on the Centennial Anniversary of Erfeng Irrigation Canal" at the Da-Chaozhou Underground Recharge Lake Monitoring Center to commemorate the 100th anniversary of the opening of the Erfeng Irrigation Canal. The conference invited international experts and scholars, including Emeritus Professor Torii Toro of the University of Tokyo, Japanese literary writer Hirano Kumiko, and Dutch water expert Arjen de Vries, to discuss sustainable development topics, such as the Erfeng Irrigation Canal project, groundwater development, and artificial groundwater recharge.



Inviting Emeritus Professor Torii Toro of the University of Tokyo to give a speech



International Conference on the Centennial Anniversary of Erfeng Irrigation Canal

(2) 2022 National Health Conference

The Ministry of Health and Welfare (MOHW) and the Pingtung County Public Health Bureau co-hosted the 2022 National Health Conference in Hengchun, Pingtung, Taiwan. The conference was themed "Partnering for a Healthier Future: Open, Connected, and Equitable." The goal of the conference was to improve public health through precision and efficient medical care. The conference was held both physically and online, with livestreaming and remote video conferencing. Representatives from 22 health departments and 374 health centers participated in the conference, showcasing the confidence, determination, and resilience of the central and local governments in building a strong and diverse partnership with frontline healthcare workers.

(3) Asia Pacific Cities Summit

The Asia Pacific Cities Summit (APCS) & Mayors' Forum, held every two years, is a leading international conference and forum that regularly invites local governments from Asia to discuss sustainable urban development. APCS provides a platform for Asian city governments to align their governance plans with international standards, share their achievements with the world, and seek cooperation with international city partners.

The 2021 APCS was held online, with the theme of "Redefining Cities through Opportunities and Challenges." Ms. Wu Li-hsueh, the former Deputy Magistrate of Pingtung County, was invited to attend the conference, where she joined 35 other city mayors to share Pingtung's experience in successfully containing the Delta variant of COVID-19 and its efforts to promote a green city. She also held in-depth discussions with representatives from other countries, experts, and business leaders to build a global city network and open up new opportunities for urban development.



Representative Wu, former deputy magistrate, shared Pingtung's experience on "how to successfully cut off the COVID-19 Delta variant" and promoted green energy cities

(4) Pingtung County's Renewable Energy Development Efforts Gain International Recognition

Pingtung County has been proactively promoting renewable energy development, and its efforts have been recognized by the international community. In late 2021, the County submitted an article titled "Zero-Budget Model Project" to the 11th Asian Conference on Sustainability, Energy & the Environment (ACSEE), organized by the International Academic Forum (IAFOR). The article received positive feedback from international scholars, who praised the project for its creativity and feasibility.

The success of the project has also attracted the attention of other countries. In February 2023, the mayor and municipal team of Calexico, California, visited Pingtung County to learn more about the project. They expressed their appreciation for the project's potential to help revitalize aging rural industries in California.

At the end of 2022, the County also participated in the 7th International Conference on Renewable Energy and Conservation (ICREC) in Paris, France. The County presented its efforts to install disaster-resistant microgrids in 11 indigenous communities. These microgrids help to ensure that indigenous communities have basic energy autonomy and enhanced disaster resilience in the face of climate change-related disasters.

4. Promoting National Diplomacy and Enhancing City Image

(1) International Friendly Exchange

In 2019, when the COVID-19 pandemic broke out, Pingtung County Government donated medical supplies to 29 countries and cities, including the United States, Japan, Malaysia, and Peru. This concretely demonstrated the County's diplomatic strength and increased its international visibility and friendly image.

To showcase the friendly relationship between Pingtung and Japan, the County Government hosted "Pingtung-Japan Friendship Thanksgiving Festival" at Shengli Star Village from February 26 to 28, 2022. The festival invited over 42 Japanese sister cities and private enterprise units to co-curate the event, which attracted an estimated 110,000 visitors.

In addition, the 2022 Pingtung Christmas International Market invited five entities from Japan, including Akita Prefecture, Asahikawa City, Sado City, Kagoshima, and Kintetsu Group, to set up stalls. This helped to promote friendly exchanges between Pingtung and Japanese cities and showcase the friendship between the two peoples. The market ran for three days and featured a strong international flavor, as well as local elements and characteristics.



2022 Pingtung Christmas Festival - The Largest Christmas Market in Southern Taiwan

(2) Using a Pingtung Tour to Attract Investment and Business

On April 22 and 23, 2022, Pingtung County Government arranged a visit to Pingtung for about 10 members of the European Chamber of Commerce in Taiwan. The visitors toured the Pingtung Tobacco Factory Cultural Center, the Citizens' Park, Shengli Star Village, Mount Kein, and the Green Energy Ecological Sustainable Education Park. They also learned about the current state of industrial investment in Pingtung and the County's industrial parks.

The topics of tourism, education, low-carbon environment, and energy sustainability, which are important to Europe, are also important policy goals for Pingtung. The County hopes to create more opportunities for cooperation in the future through this tour of Pingtung.

5. Signing sister city agreements with Cities Around the World

Pingtung County has a long history of signing sister city agreements with foreign cities to enhance its international visibility. The County first signed a sister city agreement with Maui County, Hawaii, in 1983. Since then, it has signed sister city agreements with Jefferson County, Colorado; Sanma Province, Vanuatu; Fort Bend County, Texas; and Mili Atoll City, Republic of the Marshall Islands.

In 2019, Pingtung County signed a sister city agreement with Mili Atoll City, which is a major agricultural, fishing, and tourism destination, and is a world-renowned diving spot.

To further expand the benefits of sister city agreements, Pingtung County has also helped other local organizations to sign cooperation agreements with foreign counterparts. For example, the Pingtung County Council's Taiwan-Japan Friendship Legislators Alliance and the Japan-Taiwan Friendship Promotion Adachi Ward Councilors League signed a cooperation memorandum of understanding in June 2022 via videoconference. This agreement has led to closer exchanges between the two sides.



LiGang Township and Soo City in Kagoshima Prefecture, Japan, signed a Memorandum of Understanding on International Exchange Promotion.

Chapter 6 | Our goals for the future

On October 27, 2022, Donggan Township signed a cooperation memorandum of understanding with Minami-Aso Village, Kumamoto Prefecture, Japan. This agreement will promote mutual exchanges in agriculture, tourism, education, and culture.

Ligang Township Office and Kagoshima Prefecture Soo City held a video conference in 2022-2023 and signed a memorandum of understanding to promote international exchanges on May 16, 2023.

To continue the happiness of living and working, and to continue to create the pride of Pingtung, the County Government spared no effort in listening to the voices of the people and responding to the needs of the people. For example, the per capita greenhouse gas emissions of Pingtung County are lower than the national average. After the Paris Agreement (PA) in 2021, countries have successively proposed net zero emission or carbon neutrality target legislation and commitments. In the face of this international issue, we, of course, are not falling behind, and we have reviewed the County's various net zero transition policies.

On the basis of the existing foundation, we will develop five major sustainable core industries: long-term care, technology, green energy, agriculture, and tourism, to achieve a balance between the environment, society, and economy. For example, the sustainable long-term care industry (SDG 3) will be provided by the government to 33 townships and cities, so that the elderly and their families can be at ease. The technology industry, under the impetus of the high-speed rail extension to Pingtung, will shape the overall technology industry cluster, driving employment and economic development (SDG 8, SDG 9). Agriculture as an industry will create

a dedicated production area guidance system, domestic and foreign sales channels, steam cooking and cold chain packaging and processing mechanisms for high-value agricultural, fisheries, and livestock products, to improve the County's sustainable agriculture (SDG 2). For the tourism industry, we will connect natural landscapes and cultural and historical axes, and introduce art, culture and music to promote tourism diversity and attract tourists without damaging the terrestrial and marine ecosystems (SDG 14, SDG 15). Finally, we will protect our own environment. Pingtung County has the best conditions for developing renewable energy with sunshine, wind and biogas. Forests and oceans provide natural carbon sinks. The County has set up strategies for the development of the green energy industry (SDG 7) and climate change response (SDG 13) with the goal of environmental sustainability.

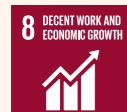
Pingtung County is doing this in a down-to-earth way, accumulating bit by bit, and breaking off the stereotypical impression of remote areas. We will also share the relevant results with everyone in the 2023 Pingtung County Voluntary Local Report. We hope that all people will set common goals with us, fulfill common responsibilities, and work together to make Pingtung continue to move forward and step by step towards a city of hope.

Sister Cities of Pingtung				
1983	1988	1995	2016	2019
United States	United States	Republic of Vanuatu	United States	Republic of the Marshall Islands
Maui County, Hawaii	Jefferson County, Colorado	Sanma Province	Fort Bend County, Texas	Mili Atoll



Chapter 7 | Appendix

Core Objectives	Goals to be promoted before 2030	Core Objectives	Goals to be promoted before 2030
	<p>1. Continue to promote employment services for persons with disabilities (1) By 2030, the cumulative number of persons with disabilities who have been referred for employment will reach 420. (2) By 2030, the cumulative number of persons with disabilities who have successfully found employment will reach 210.</p> <p>2. Decrease the number of low-income households by a certain percentage by 2030 (1) The reduction rate for low-income male and female households will be 1% each. (2) The reduction rate for low-income households with children will be 5%.</p> <p>3. By 2030, assist low-income households to participate in poverty reduction programs, such as education investment, employment and self-reliance, with more than 250 participants.</p> <p>4. Complete the construction and renovation of 6 social welfare comprehensive centers by 2030.</p> <p>5. Complete the signing of agreements with at least 15 assistive device rental companies by 2030.</p> <p>6. Complete the integration of long-term care issues into the vocational education curriculum of all 38 public high schools in the County by 2030.</p>		<p>8. By 2030, the tuberculosis incidence rate will be fewer than 2.5. 9. By 2030, the average annual fatality rate of dengue fever will be below 0.5%.</p> <p>10. By 2030, the matching service rate of the "Care at Home", an integrated home care platform, will reach 72%.</p> <p>11. By 2030, the "Everyone Cares" service model will serve more than 30,000 people.</p> <p>12. By 2030, the coverage rate of mobile living rehabilitation vehicles will reach 100%.</p> <p>13. At least 33 long-term care service centers for the people with mental illness will be established by 2030.</p> <p>14. The long-term care services in the County will be improved continuously. (1) The long-term care service utilization rate in the County will be 10% increased by 2030. (2) The long-term care service coverage rate in the County will reach 100% by 2030.</p> <p>15. The various vaccination rates will be maintained to achieve the desired prevention effects.</p> <p>16. The hepatitis C screening coverage rate in the County will reach 72% by 2030.</p> <p>17. The average screening rate of breast cancer, cervical cancer, colorectal cancer, and oral cancer for people aged 30 to 70 will reach 85% or more by 2030.</p> <p>18. The coverage rate of substance and alcohol abuse treatment services provided by hospitals with psychiatric wards in the County will reach 100% by 2030.</p>
	<p>1. By 2030, the area of organic and environmentally friendly farming will reach 1,200 hectares.</p> <p>2. By 2030, the BOD reduction of livestock manure and sludge will reach 15,343 million kilograms.</p> <p>3. By 2030, one organic farmers' market will be established in the Pinan area.</p> <p>4. By 2030, the coverage rate of nutrition education for community elderly groups will reach 60%.</p>		<p>1. At least 10 food and agriculture education promotion sites will be established in the county by 2030.</p> <p>2. The senior learning academy service coverage rate in the County will reach 50% by 2030.</p> <p>3. The participation rate of personnel from the County Government and its subordinate first-level agencies in the democratic governance value course will reach 100% by 2030.</p>
	<p>1. The coverage rate of community care and support centers in the County will reach 100% by 2030.</p> <p>2. By 2030, there will be a total of 28 community-based day care service centers for persons with disabilities.</p> <p>3. By 2030, at least 124 rehabilitation buses will be available for persons with disabilities to book.</p> <p>4. By 2030, there will be at least 220 dementia-friendly restaurants in the County.</p> <p>5. By 2030, at least 31 dementia-friendly organizations and 685 dementia-friendly angels will be recruited.</p> <p>6. By 2030, at least 12 senior fitness clubs will be established, serving an estimated 35,000 people.</p> <p>7. By 2030, the number of newly reported HIV infections will be reduced to 1,000.</p>		<p>1. The percentage of women holding positions as heads of first-level units and first-level agency heads in the County Government will be maintained at 34% by 2030.</p> <p>2. The percentage of female police officers (patrol officers and above) will be maintained at 13.2% or more.</p> <p>3. Gender-neutral baby blessing activities will continue to be held in Jiadong Township.</p> <p>4. The caseload rate of pediatricians will reach 75% by 2030.</p> <p>5. There will be no maternal deaths in the County by 2030.</p> <p>6. The infant mortality rate in the County will be lower than the national average by 2030.</p> <p>7. At least two inclusive healthcare demonstration sites will be planned by 2030.</p> <p>8. At least 10 new public childcare facilities will be added by 2030, with a total capacity of 300 children.</p>

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 6 CLEAN WATER AND SANITATION	<ul style="list-style-type: none"> 1. The tap water coverage rate will reach 70% by 2030. 2. The construction of public sewage treatment plants will be promoted, and the cumulative number of connected households will reach more than 47,000 by 2030. 3. The total number of households connected to sewage treatment will reach more than 100,000 by 2030. 4. The sewage treatment rate in Liuqiu Township will reach 90% by 2030. 5. The number of members of the Water Environment Guardians Association in the County will reach 600 by 2030. 6. The night hawk early bird inspection activities will continue to be promoted. <ul style="list-style-type: none"> (1) The number of fined cases will reach 160 annually. (2) The number of Night Hawk Early Bird inspections will reach 50 times annually. 	 10 REDUCED INEQUALITIES	<ul style="list-style-type: none"> 1. Transformation of the Pingtung County Indigenous Cultural Center <ul style="list-style-type: none"> (1) Revitalization 6,031.1 square meters of public space. (2) 6 social welfare and public service events will be held each year. (3) 2 volunteer training courses and observation activities will be held each year. (4) The center will increase its visitations by 7% annually. (5) The center will collaborate with six private organizations and schools each year. 2. Operating of the Pingtung Indigenous Museum continually <ul style="list-style-type: none"> (1) The museum will be open for at least 290 days each year. (2) The museum will host four exhibitions each year. (3) The museum will host four indigenous education promotion activities each year. (4) The museum expects to have a cumulative total of 50,000 visitors by 2030. 3. Promoting distinctive roads and sustainable landscaping in indigenous communities 4. The public and educational personnels' Hakka language proficiency certification passing rate will reach 10% by 2030 5. Continuing the Pingtung Cocoa & Taiwan Chocolate Festival <ul style="list-style-type: none"> (1) The festival will attract 7,000 participants each year. (2) The festival is expected to generate NT\$4.2 million in economic output each year. 6. Continuing the Hakka Cultural Festival <ul style="list-style-type: none"> (1) The festival will be held once a year. (2) The festival will cooperate with 50 businesses or organizations each year. (3) The festival is expected to attract 5,000 participants each year. (4) The festival is expected to generate NT\$6.5 million in economic output and surrounding benefits each year. 7. Revitalization of the Qiaodongjiao Culture Square in Jiadong Township <ul style="list-style-type: none"> (1) The square is expected to be used by 3,000 people each year. (2) The project is expected to create 20 jobs. 8. Overall restoration and educational tour system installation of the Liu Family Dawo Ancestral Hall in the Wuguoshui Canal in Wanlun Township <ul style="list-style-type: none"> (1) The ancestral hall is expected to be used by 500,000 people each year. (2) The project is expected to create 10 jobs. (3) The project is expected to promote NT\$5 million in private investment each year. (4) The project is expected to generate NT\$10 million in additional economic output in the surrounding area each year.
 8 DECENT WORK AND ECONOMIC GROWTH	<ul style="list-style-type: none"> 1. The total number of youth entrepreneurship courses will reach 70 courses per year by 2030, with more than 400 participants. 2. The number of courses offered by the Pingtung Labor University will reach 16 classes by 2030. 3. The employment for senior workforce and more senior-friendly jobs will be promoted continually. <ul style="list-style-type: none"> (1) Recruitment services will be provided to at least 22,326 people by 2030. (2) Employment counseling will be provided to at least 31,246 people by 2030. (3) Successful job matching services will be provided to at least 1,760 people by 2030. 4. At least 245 people will apply for the Senior Workforce Job Assistance Program by 2030. 	 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE	<ul style="list-style-type: none"> 1. Promoting industrial park development to boost economic output <ul style="list-style-type: none"> (1) The annual output value of the Pingtung Science Park will reach NT\$36 billion. (2) The annual output value of the expansion of the Pingtung Technology Industrial Park will exceed NT\$10 billion. (3) The annual output value of the Pingtung Liukuaicuo Industrial Park will be approximately NT\$6 billion. (4) The annual output value of the Pingtung Tropical Agricultural Specialty Industrial Park will be NT\$2.34 billion.

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 11 SUSTAINABLE CITIES AND COMMUNITIES	<p>1. Cooperating with the Ministry of Economic Affairs' energy conservation plan, and formulating energy conservation goals continually.</p> <p>2. 100% of city buses will be electrified by 2030.</p> <p>3. The number of registered electric vehicles will reach 32,000 by 2030.</p> <p>4. At least 260 electric vehicle charging piles will be installed by 2030, including 7 fast-charging piles.</p> <p>5. A total of 76,000 old motorcycles and 3,200 diesel vehicles (large and small diesel vehicles) will be scrapped by 2030.</p> <p>6. The accumulated number of bike sharing users will reach 10 million by 2030.</p> <p>7. Promoting the intelligent dynamic traffic signal control system reduces police manpower costs by 50%.</p> <p>8. The Happiness Bus will serve 100,000 passengers per year.</p> <p>9. The rate of barrier-free city bus routes will reach 100% by 2030.</p> <p>10. The shuttle taxi will serve 50,000 passengers per year.</p> <p>11. At least 6 transfer stations will be built by 2030.</p> <p>12. 1,000 centralized bus stops will be completed by 2030.</p> <p>13. The city bus growth rate of annual passenger volume will reach 1%.</p> <p>14. The coverage rate of public transportation will reach 90% by 2030.</p> <p>15. The extension of the Taiwan High Speed Rail to Pingtung will be promoted continually by 2030. The residential area of the Pingtung High Speed Rail Station Special Zone is expected to generate an average of over 8,000 trips per day in 2031, and the commercial and industrial zones are expected to generate an average of over 98,000 trips per day.</p> <p>16. The annual average concentration of PM2.5 will be 15 $\mu\text{g}/\text{m}^3$ to meet air quality goals by 2030.</p>	 13 CLIMATE ACTION	<p>1. The number of disaster shelters in the County will be able to accommodate 108,000 people by 2030.</p> <p>2. By 2025, the county's greenhouse gas emissions will be reduced by 10% from the baseline year (2013), and by 2030, they will be reduced by 20%.</p> <p>3. The downtime rate of rescue boats will be less than 10% by 2030.</p> <p>4. The coverage rate of telemedicine in the County (including indigenous areas, outlying islands, and other remote areas with insufficient medical resources) will be 100% by 2030.</p> <p>5. Climate change education and sustainable campuses will be promoted.</p>
 12 RESPONSIBLE CONSUMPTION AND PRODUCTION	<p>1. The "Liuqiu Cup" sharing initiative will be promoted continually, with annual rentals of at least 90,000 cups, reducing the use of 2 million beverage cups.</p> <p>2. The "Bags without Plastic!" shopping bag recycling sharing stations will have been installed in 30 locations by 2030.</p> <p>3. The accumulated exchange volume of flea market activities will reach 6,800 items by 2030.</p> <p>4. The resource recovery rate at village-level recycling stations in the county will increase by 12.5% (based on 2022 data) by 2030.</p> <p>5. Waste on-site inspections to ensure compliance with the "General Waste Incinerator Waste Import Management Regulations" will be conducted continually.</p> <p>6. The BOD reduction from livestock wastewater reuse will reach 155,000 kilograms by 2030.</p>	 14 LIFE BELOW WATER	<p>1. The ecological protection areas within the County will be maintained continually, including the Kenting National Park, the Fishery Resources Conservation Area, and the Xuhai-Guanyinbi Nature Reserve.</p> <p>2. The total number of fishing vessels allowed to catch cherry shrimp and red-tailed shrimp will be limited continually.</p> <p>3. The coastal fishery management plan will be strengthened continually.</p> <p>4. The number of designated restoration areas in Liuqiu Township will reach 10 places by 2030.</p> <p>5. The number of trained citizen scientists will reach 15 by 2030.</p>
		 15 LIFE ON LAND	<p>1. 4,500 cubic meters of domestic timber will be produced annually.</p> <p>2. The area of forestland that has passed the logging compensation inspection will reach 27,500 hectares by 2030.</p> <p>3. The number of invasive species removed will reach 100,000 by 2030.</p> <p>4. The designation of the Liuqiu Wildlife Protection Area will be completed by 2030.</p> <p>5. The length of the soil and rock flow potential streams and wild streams (including dredging) in the County will reach at least 10 kilometers by 2030.</p> <p>6. Total area of eco-friendly farming reaches 350 hectares to keep protecting habitats for endangered species by 2030.</p>
		 16 PEACE, JUSTICE AND STRONG INSTITUTIONS	<p>1. The detection rate for drug crimes will reach 100% by 2030.</p> <p>2. The incidence of violent crime will be reduced to below 1.5% by 2030.</p> <p>3. The incidence of fraud will be reduced to below 50% by 2030.</p>
		 17 PARTNERSHIPS FOR THE GOALS	<p>1. 2 international sister cities will be signed by 2030.</p> <p>2. 10 international image videos for the County will be produced by 2030.</p> <p>3. Participating in at least one international forum or conference every two years.</p> <p>4. There will be at least 50 international exchange events per year (including overseas visits, participation in international conferences and forums, and foreign guest visits).</p> <p>5. At least one more sister city will be signed each year.</p>

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