

# WHA... Newsletter CONNECT:



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## Group CEO Talk Climate Action

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Sustainability Award &  
WHAUP Receives  
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# GROUP CEO TALK

## Climate Action



Climate change has been intensifying over the last few years, with increasing impacts being felt around the world. International cooperation efforts, such as the United Nation Climate Change Conference (COP26) recently held in Glasgow, UK, are being accelerated to find solutions to reduce its effects. The business sector is responding by applying sustainable development concepts that focus not only on growth, but also on environmental, social and governance (ESG) goals.

While studying the cases of international corporations, I came across many organizations that have implemented eco-friendly business practices to reduce environmental impact. Global tech giant Google, for example, has committed to lessen the carbon footprint of its hardware products by reviewing its shipping process to help reduce global warming, and to include recycled materials in its smartphones, laptops and smart speakers by 2022. British consumer goods company Unilever is switching to renewable sources of carbon to shift away from fossil fuels for its cleaning products by 2030.

The SDG Index 2021 Report ranked Thailand 43<sup>rd</sup> out of 165 countries with a score of 74.2, higher than the regional average of 65.7. However, the country still faces significant challenges in many areas, such as inequality in income,

health and well-being. Although Thailand has made some progress compared to the previous year, these key issues still need improvement. The government has made substantial efforts through various developments, such as the *Alternative Energy Development Plan*, *Natural Resources Management Plan* and related projects like the Eastern Economic Corridor (EEC), which require the use of clean energy in the area.

The private sector is also doing its share by using modern technology to develop environment-friendly businesses. For example, WHAUP, a subsidiary of WHA Group, has set a goal of generating 300 MW of solar power by 2023, which will reduce up to 150 tons of carbon dioxide emissions per year. WHAUP has also invested in the Chonburi Clean Energy power plant, the first industrial waste-to-energy facility in Southeast Asia to meet European emission standards. Equipped with the most advanced technologies, the plant has a power-generating capacity of 8.63 MW and can convert 100,000 tons of industrial waste into electricity per year.

**The issue of climate change can no longer be ignored and must be addressed urgently. It is essential for all business sectors to work together for sustainable development, involving gains from 'lost advantage' over the old concept of 'cost advantage'.**

This approach and initiative would truly benefit businesses and consumers, as well as society and the environment in the long run.



**Ms. Jareeporn Jarukornsakul**

Chairman and Group CEO  
WHA Corporation PCL



# HIGHLIGHTS

## WHA Group Receives Rising Star Sustainability Award & WHAUP Honored with Outstanding Innovative Company Award at SET Ceremony 2021

WHA Corporation PCL (WHA Group) has received the prestigious Rising Star Sustainability Award for listed companies in real estate and construction from the Stock Exchange of Thailand (SET) during the SET Awards 2021, in recognition of the company's contribution to society and commitment to the environment. WHA Utilities and Power PCL (WHAUP) was also honored with the Outstanding Innovative Company Award for its innovation on demineralized reclaimed water, an alternative water resource for sustainable development.

A listed company since 2012, WHA has stood out for its business management practices and operations while strictly adhering to environmental, social and governance (ESG) principles. The award ceremony was held via SET's online platform.

"I am deeply honored to accept the Rising Star Sustainability Award on behalf of WHA Group," said Ms. Jareeporn Jarukornsakul, Chairman and Group CEO of WHA Corporation PCL.

**“ Sustainability is at the very core of our company, as we continuously strive to combine corporate governance with social responsibility and environmental concern. ”**



**In the picture:** Ms. Jareeporn Jarukornsakul, Chairman and Group CEO of WHA Corporation PCL., receives the Rising Star Sustainability Award in the Sustainability Excellence category during 2021's SET Awards Ceremony, held online by the Stock Exchange of Thailand

"This award confirms our commitment as an active member of society to uphold the highest standards and to raise awareness. Our sincere thanks go to WHA executives and staff for their relentless contribution towards balanced development. We hope to set an example for others, especially newcomers in different sectors, to strive for sustainable growth for the benefit of generations to come."

Among the most prominent green initiatives that WHA has launched over the years is the *Clean Water for Planet* project. Initiated in 2016, the project's goal was to raise awareness among customers and communities on the importance of natural resource conservation. WHA Group has constructed and delivered wastewater treatment systems to various communities including Pluak Daeng Subdistrict Administrative Organization in Rayong province to help improve water quality by using the eco-friendly constructed wetlands for water treatment. The treatment system has been inspired by the efforts and projects of H.M. the late King Bhumibol Adulyadej (King Rama IX). The company also contributed to the development of a constructed wetland water treatment for Chanthaburi's Nong Khla subdistrict municipality.

In addition, WHA Group has signed a Memorandum of Understanding (MoU) with Chulalongkorn University on wastewater management and treatment projects to promote knowledge exchange and training of engineers. The partnership will focus on applying academic knowledge to real-world operations in industrial estates and surrounding communities.

WHA Group is also gaining widespread success in the promotion and installation of integrated solar energy systems for customers both internal and external to WHA industrial estates to lower carbon emissions. Each initiative has been built upon and in line with the company's business direction.

Dr. Niphon Bundechanan, CEO of WHAUP, said the company is very honored to receive the Outstanding Innovative Company Awards

for its innovation on demineralized reclaimed water, an alternative water resource for sustainable development. The award granted by the Stock Exchange of Thailand reflects WHAUP's commitment to innovation as a driving force towards sustainability. Through human resources strategy, it focuses on providing a working environment that allows employees to create new ideas. "The Outstanding Innovative Company Awards is a prestigious distinction that reflects WHAUP's DNA and shows its commitment and determination to initiate quality innovative works that can bring positive changes to society. WHAUP is considered a model organization that helps lift standards and bring sustainable growth to the country's economy and society in the long run."

WHA Group is also a leader in community projects involving social welfare, education, youth and sports, employee development and community empowerment, with the goal to strengthen communities and enhance quality of life for Thai people.



**In the picture:** Dr. Niphon Bundechanan, CEO of WHAUP, receives the Outstanding Innovative Company Award during 2021's SET Awards Ceremony

## Launch of Field Hospital Brings Charoen Pokphand, WHA Group, and Chularat Hospital Group Together to Care for COVID-19 Patients

The collaboration between Charoen Pokphand (CP) Group, WHA Corporation PCL (WHA Group) and Chularat Hospital Group (CHG) aims to develop high standards for a field hospital that will treat yellow and orange-coded COVID-19 patients. For this project, WHA Group provided a warehouse converted into a field hospital, while CHG provided full medical support including doctors, nurses, medical supplies and equipment. The CP Group offered its support in honor of the late King Rama IX and to carry on the volunteer spirit of King Rama X.

The field hospital was set up in the warehouse of WHA Mega Logistics Center located at Chonlaharnpichit KM.4 in Samut Prakan province. With 15,294 sq.m. and considered to be equivalent to a general hospital, this project is regarded as the first field hospital equipped with full

medical facilities to treat COVID-19 patients. The CP-WHA-CHG Field Hospital started operating in October 2021, with patients referred by the Chularat Hospital Group.

Mr. Supachai Chearavanont, CEO of Charoen Pokphand Group, stated that for almost 2 years, the COVID-19 epidemic has greatly impacted the economy, society and public health. "Today, there are still many reported cases of patients in critical condition," he noted. "As a Thai private company that has been operating for a century, the company shows its gratitude to King Rama IX by marking the fifth anniversary of his passing, and following his dedication to help the needy and bring happiness to the Thai people. In the field of medicine and public health, the company honors the 'volunteer spirit' of King Rama X by helping Thai people who are infected with COVID-19."

With the same goals to support and assist Thai people, WHA Group and Chularat Hospital Group pooled their efforts to complete the construction of the field hospital within 30 days. The CP-WHA-CHG Field Hospital will accommodate yellow and orange-coded patients from Bangkok and nearby provinces in its facilities with the highest standards and equipment.

In addition to the field hospital, CP Group is also operating three other similar projects. The first project is Lerdsin Field Hospital, a collaboration with Lerdsin Hospital, the Thai Department of Medical Services, and Pruksa Real Estate to accommodate yellow and red-coded patients. The second, a partnership between Nopparat Rajathanee Hospital and Ramkhamhaeng University, is a community isolation center that provides green and light yellow-coded patients a safe place to isolate, and helps conserve healthcare resources. The third project is the planting of *Andrographis paniculata*, commonly known as *fah talai jone* in Thai, used as a herbal remedy to treat asymptomatic cases of COVID-19.

“The CP-WHA-CHG Field Hospital is a good example of cooperation in the private sector to accelerate recovery from the pandemic,” said Ms. Jareeporn Jarukornsakul, Chairman and Group CEO of WHA Corporation PCL. “To help Thais and the country overcome the crisis, WHA has converted its warehouse within WHA Mega Logistics Center, Chonlarnpichit KM.4, to a free-of-charge field hospital, as a significant strategy to fight COVID-19.”

Once infected with the virus, patients need quick access to treatment, in order to contain the spread. WHA has also revamped the hospital area so its standard is equivalent to other general hospitals. Located away from heavily



populated areas, the field hospital is accessible and located close to Chularat Hospital. CP-WHA-CHG is WHA Group's second field hospital in Samut Prakan province, following the opening of Samut Prakan Ruamjai 5 (WHA) in July 2021. This reflects WHA Group's commitment to boost health care and help improve the well-being of Thai people.

Dr. Kampil Plussin, Chairman of Executive Committee and Managing Director of Chularat Hospital, said “Lately, there has been a shortage of hospital beds for yellow, orange and red-coded patients in Samut Prakan and nearby provinces. The Chularat Hospital Group (CHG) has been at the forefront in the fight against COVID-19. We are willing and ready to cooperate with CP Group and WHA to build the CP-WHA-CHG Field Hospital to help alleviate the burden of taking care of yellow and orange-coded patients from the general hospitals.”

CHG, with branches across the eastern provinces of Thailand, has assigned medical personnel with at least 15 doctors, and a team of 40-50 nurses and multidisciplinary staff to take care of patients around the clock. They provide a dispensary for medicine and medical supplies, a laboratory and an X-ray room. Nutritionists are on hand with guidance on balanced diets for specific patient groups, and there is also a mobile hemodialysis machine for patients with complications, and a clothing management system.

“We are confident that this field hospital has the medical equipment and facilities that meet the standards of the Ministry of Health,” Dr. Kampil added, “and is as equipped for treating COVID-19 patients as a general hospital. This field hospital will give people easier access to treatments that can save lives and alleviate the burden on the public health system.”

The CP-WHA-CHG Field Hospital accepted yellow and orange-coded COVID-19 patients in early October 2021. All 14 Chularat Hospitals will be screening patients and referring them for treatment at this field hospital in Samut Prakan.

The field hospital will provide the same standard services as other general hospitals by using the latest innovations and technologies, including:



1. Ventilation pipes at the head of every patient bed, which can ventilate efficiently and can be sterilized by UV. This is to prevent the spread of COVID-19 in the area.
2. Air systems inside the patient care zones, which are divided into 2 pressure systems (negative and positive). The negative system is to prevent the spread of the virus from the room to other areas, while the positive is to prevent the spread of viruses from other areas into the room to protect medical staff.
3. A pipeline reverse osmosis (RO) water purifier system for medical devices, especially for dialysis patients who need clean water for their treatment.
4. Gas distribution systems, including a medical gas system and an oxygen system used for treatment and assisting medical staff during operations.
5. High flow oxygen therapy and heart rate and vital signs monitor.
6. A mobile hemodialysis system, for cases with complications.
7. A laboratory, X-ray room, and 24/7 medicine and medical supplies room at the same technology standard as other main hospitals.
8. A nurse station with special medical equipment for nurses and medical personnel to monitor and take care of patients.
9. Communication system boxes at the head of every orange-zoned patients' bed for seeking immediate attention from medical staff.
10. Complete 5G communication systems via the internet network, from CCTV to intercom to wired audio systems, such as robots to assist patients.

## WHA Group Welcomes TRIS Rating of “A-” with Stable Outlook

WHA Corporation PCL (WHA Group) received good news recently as TRIS Rating affirms the company's rating at A- with a “stable” outlook, reflecting the company's stable revenue structure from its logistics business, utilities business, and dividends from its power business. This includes revenue from assets monetization to REIT (real estate investment trust) according to WHA Group's investment policy, as well as the financial flexibility and efficiency in financial management amidst the COVID-19 pandemic, and a distinct business plan for all four business hubs.

Ms. Jareeporn Jarukornsakul, Chairman and Group CEO of WHA Group, said

that the rating reflects WHA Group's position as a leader in the logistics and industrial estate businesses. Recently, the company has generated a higher rental revenue from an increase in demand for warehouses and factories, as a result of the expansion of e-commerce and consumer businesses, an expectation of increasing land sales after the recovery of the COVID-19 situation, a solid business expansion plan in Vietnam, consistent revenue from the utilities business due to a strong customer base and a higher utilities demand of power plants, as well as continued dividend income from its power business.

Furthermore, this company rating has shown WHA Group's financial discipline and liquidity, representative of the strong fundamentals of the four business hubs, efficiency in financial management, strong financial position, and the ability to generate profits in the medium and long term. The rating also reflects the company's capability of various sources of funding from the capital market and financial institutions, thereby supporting the continuous and future growth of WHA Group's businesses.

## Strength of 4 business hubs and effective financial management amidst pandemic

WHA Group CEO Ms. Jareeporn added that despite the pandemic's widespread impact on the country's economy, the company was able to maintain its positive situation. The logistics business grows continuously from e-commerce expansion and consumer businesses. The industrial estate business benefits from production base relocation by foreign investors as a result of their adopted China Plus One policy, as well as the relaxing of inbound travel restrictions, enabling investors to enter the country. Utilities and power businesses continue to generate revenue. In addition, the sale of assets to WHART (WHA Real Estate Investment Trust) in the fourth quarter of 2021 has continued as planned.

The logistics business recorded strong performance as the COVID-19 pandemic increased demand for ready-built factories and warehouses, as well as high-quality distribution centers which enabled WHA Group to hold short-term lease contracts of over 100,000 sq.m., higher than the annual target. Recently launched, WHA Office Solutions provides offices for rent in high-potential locations to meet the needs of investors looking for flexible types of offices. WHA Group is also speeding up new product and service offerings through smart technology that will increase efficiency and reduce operation costs of logistics customers in the long term. It also supports data collection and analysis through fully-integrated service solutions in cooperation with business partners and startups.

For the industrial estate business, WHA Group currently operates 12 industrial estates, 11 in Thailand and one in Vietnam. The company plans to develop three new industrial estates in Thailand and two more in Vietnam,

in line with its development plan to open new industrial estates to serve the needs of investors from across the world. Furthermore, WHA Group is also accelerating the development of smart eco industrial estates with integrated solutions, including smart energy, smart utilities, smart mobility, and others to support the investment and growth of customers in the future.

The government's policy to reopen the country and lift travel restrictions, coupled with the improving COVID-19 situation following the vaccination programs in Thailand and in Asia, are positive factors to stimulate trade and investment in the region, being a benefit for the company's industrial estate business. At the same time, China is facing a serious energy shortage, driving many investors to relocate their manufacturing bases to Thailand and Vietnam.

In the utilities business, the volume of water sales and management in Thailand and Vietnam continues to grow, due mainly to rising demand from existing and new customers such as power plants in the petrochemical sector. Several factories implemented a 'bubble and seal' measure, which helped control the spread of COVID-19 while not affecting the volume of water consumption during the pandemic. In addition, WHA Group plans to develop and offer value-added water products to serve customers in industrial estates. Some projects are under development and construction, such as the wastewater treatment plant in WHA Rayong 36 industrial estate, with a capacity of 2.7 million cubic meters (cu.m) per year, the demineralized water plant with a capacity of 1 million cu.m. per year, and the alternative source of raw water project with a capacity of 6 million cu.m. per year.

For the power business, WHA Group is gearing up to increase investments in renewable energy, reflecting its

leadership in providing fully integrated services for solar energy under private power purchase agreements (private PPAs). This will deliver all types of products to business operators and develop energy solutions and innovations for customers inside and outside industrial estates. Currently, the company has secured contracts from solar energy projects for more than 63 MW, out of 90 MW for the 2021 target. Nine power plants have been under construction and now in commercial operation, with a combined capacity of 10.9 MW.

With its strategy to focus on digital technology and innovations, the company has joined hands with leading partners including PTT and Sertis to develop an exchange platform to buy and sell energy through blockchain technology. WHA Group believes this will create an opportunity to expand the capacity of renewable energy significantly and offer a new business model. It will also allow business operators in industrial estates to use electricity at reasonable prices and costs.

The year 2021 has been a very challenging year for the whole world. The COVID-19 pandemic has been a catalyst to transform people's daily living and the way to do business. WHA Group gives importance to digital transformation by developing modern IT systems and restructuring its organization, work process, and overall business management ranging from thinking, design, customer experience, and resource management, especially on information, to the enhancement of company culture. All of these will enhance the company's competitiveness to respond to the changing market, drive business sustainability, and grab new business opportunities in the future.



# WHA Group Accompanies TD Tawandang to Expand TookDee Convenience Stores Nationwide



**In the picture:** Ms. Jareeporn Jarukornsakul (center), Chairman and Group CEO of WHA Corporation PCL., and Ms Tientham Setthasit (3<sup>rd</sup> from right), Executive Director of TD Tawandang, sign a contract for new warehouses at WHA Mega Logistics Center, in the presence of executives from both companies during the recent signing ceremony held at WHA Tower

WHA Corporation PCL (WHA Group), Thailand's leader in fully-integrated logistics and industrial facilities solutions, recently welcomed TD Tawandang Co., Ltd., as its new customer during the contract signing ceremony for two new warehouses. The facilities will be used as a tactical base for storage and distribution of retail goods for its growing chain of TookDee (TD) retail stores, with more than 5,000 branches nationwide.

With 9,645 sq.m. at WHA Mega Logistics Center Wangnoi 62 in Ayutthaya province and 25,011 sq.m. at WHA Mega Logistics Center Panthong in Chonburi province, the distribution centers are strategically located due to their

easy access to Bangkok and its vicinity. TookDee has become a household name in recent years thanks to its mission to be the "community store for the community, by the community."

Ms. Tientham Setthasit, Executive Director of TD Tawandang, expressed her desire to modernize traditional convenience stores and create business opportunities for more people, including local entrepreneurs in different communities. "With the warehouse facilities at WHA, we hope to streamline our operations so we can continue providing good quality products at affordable prices. This will also enable us to also create employment, support small businesses and entrepreneurs, and bring back confidence."

"We are deeply honored that TD Tawandang has placed its trust in our world-class services and logistics facilities to accompany its business expansion," said Ms. Jareeporn Jarukornsakul, Chairman and Group CEO of WHA Corporation PCL. "It brings us great pride to provide secure, efficient and strategically-located bases for TD's operations as it strives to uplift the local community network and revitalize the country's grassroots economy. We laud TD Tawandang for its exemplary efforts to improve the lives of Thai people."

There are more than 3,000 TD stores nationwide, and plans to expand to 30,000 shops in 2022. The company is focusing on making its stores and services accessible to more people, including those in the most remote villages in the country.

## Signode Opts for WHA Built-to-Suit Factory to Expand Presence in Region

WHA Corporation PCL (WHA Group), Thailand's leader in fully-integrated logistics and industrial facilities solutions, recently partnered with Signode to open its 8,151 sq.m. manufacturing facility, built over a 13.4-rai land area at WHA Eastern Seaboard Industrial Estate 2 (WHA ESIE 2).

Benefiting from WHA's highest construction standards and equipped with the latest automation technologies, the built-to-suit factory will produce a wide range of optimized and customized packaging products used across a variety of industries. Opened on 1 October 2021, the Signode plant began supplying its customers

in the Asia Pacific region with world-class tier sheets and PET straps as well as serving as a trading station for the company's broad packaging portfolio in Thailand and neighboring countries.

Headquartered in Tampa, Florida, Signode has over 80 manufacturing facilities across six continents and over 9,000 employees worldwide. It is a leading manufacturer of a broad spectrum of transit packaging consumables, tools, software, and equipment that optimize end-of-line packaging operations and protect products in transit.

“This new factory will enable Signode to offer more packaging solutions to our customers in the region, especially to help improve supply chain efficiency.” said Mr. Finn Sorensen, Managing Director at Signode Systems (Thailand) Ltd. “WHA is the logical partner for this important project due to its track record of success in building facilities that meet their clients’ business development needs. Beyond its technical capabilities, WHA ESIE 2’s location close to Laem Chabang Sea Port will reduce transport costs and ensure quick delivery to our customers.”

“We welcome the world’s premier end-of-line packaging company, Signode, to WHA ESIE 2 and look forward to providing the best services to ensure its expansion in the region,” said Ms. Jareeporn Jarukornsakul, Chairman and Group CEO of WHA Corporation PCL. “With e-commerce expected to continue its exponential growth, the need for eco-friendly packaging materials is also increasing. Signode’s new technologies, materials and processes will enable the environmentally-safe and efficient packing, warehousing, and transporting of goods across the world.”

WHA’s built-to-suit factories offer maximum flexibility for businesses to start operations swiftly, and with reasonable initial costs. WHA has become a trusted and reliable partner of some of the region’s largest and most popular e-commerce and supply chain businesses and operators serving millions of customers each day.

## WHA Group Joins Bualuang Ventures to Tap into E-Logistics Market by Investing in GIZTIX Thai Start-up



WHA Group joins Bualuang Ventures, a subsidiary of Bangkok Bank, to become the main investors in the Series B funding round of GIZTIX, a Thai startup that provides a digital platform for e-logistics, with total funding of more than THB 260 million. It aims to develop a comprehensive range of transportation services and technologies for businesses throughout the country. In addition, it is ready to support logistics operators to enter the digital era while aiming to occupy the strategic point of the regional center.

Bualuang Ventures and WHA Group will each invest USD 3 million, or approximately THB 100 million. The Series B funding round was also attended by leading institutional investors in the startup industry, including AddVentures by SCG, KK Fund and CAC Capital. GIZTIX plans to use the funds to develop services and technologies in

transportation and to expand the service areas while reducing transportation costs as much as possible.

Ms. Jareeporn Jarukornsakul, Chairman and Group CEO of WHA Corporation PCL, said that WHA Group was very pleased to be one of the main investors in the Series B funding round. This partnership between Bualuang Ventures and GIZTIX is an important collaboration and in line with WHA Group’s digital innovation and transformation strategy which is focused on applying new technology and innovation to further develop a full range of products and services with business partners and startups. This responds to new needs under megatrends and will create more value and quality for WHA Group’s products and services, including the development of modern and international

standard smart warehouses, the use of robotics and automation together with 5G technology, and providing smart logistics to support entrepreneurs to collect and use data for in-depth analysis that will benefit their business, along with AI and machine learning that can enhance efficiency and reduce business costs in the long term.

““ *As Thailand's leader in fully-integrated logistics, industrial estates, and utilities, WHA Group is ready to bring in its expertise and the ecosystem of its four main businesses as well as its good relationship with customers and Thai and foreign e-commerce and logistics operators to join with Bualuang Ventures and GIZTIX to support the growth of Thai entrepreneurs, reduce logistics costs and increase Thailand's competitiveness. Over the next few years, WHA Group will continually seek new investment opportunities with leading partners to expand its business and achieve sustainable growth in Thailand and the region.* ””

*Ms. Jareeporn Jarukornsakul,  
Chairman and Group CEO of WHA Corporation PCL*

Bualuang Ventures Managing Director Mr. Krit Phanratnamala said that the joint investment with GIZTIX, which has expertise in logistics and high potential, is a collaboration between Bualuang Ventures as a financial partner and WHA Group as a strategic partner that will drive Thai startups to prosper and help them to compete domestically and internationally. As a subsidiary of Bangkok Bank, which is a leading financial service provider, Bualuang Ventures is ready to bring in financial technology (fintech) to further enhance services on the GIZTIX platform such as digital lending for GIZTIX drivers, working capital for entrepreneurs on the GIZTIX platform, as well as analyzing payment data to develop future solutions. This will provide greater access to financial services for platform users and strengthen the competitive edge for small logistics operators, while increasing the ability to respond to future needs of the e-commerce sector.

“We foresee growth in the e-commerce sector and related businesses such as logistics. As consumers have grown to enjoy having many choices for their logistics provider, we are confident that this investment will support the growth of the entire supply chain, from sellers to logistics operators, to consumers.” said Mr. Krit Phanratnamala, Managing Director of Bualuang Ventures.

“Everyone will receive an efficient service thanks to digital technology that helps manage, control costs, and speed up delivery time under GIZTIX's system that is about to be developed using this funding to enhance service capability,” said Mr. Krit.

Mr. Sittisak Wongsomnuk, CEO and co-founder of GIZTIX, said that the proceeds received from the Series B funding round will be used for business development in four areas: 1) Developing more comprehensive transportation services and technologies using advanced technology; 2) Expanding the transportation network to provide nationwide services, especially in strategic road transportation routes using e-logistics; 3) Investing in marketing and sales

to help distribute income to transport operators in every province; and 4) Investing in management and technology to maintain profitability in parallel with business expansion. It is also preparing to list on the Stock Exchange of Thailand in 2025 or in the next four years.

Despite the fact that there is fierce competition in the logistics industry in Thailand, as many large corporates from foreign countries have entered the market, GIZTIX's strong point is focusing on business customers and mainly large-sized products which are less competitive. Offering a full range of services that are particularly designed for business customers, while running every work process with technology support. The start-up continues to gain trust from its customers. The COVID-19 outbreak has encouraged businesses to increasingly turn to online services. As a result, the number of transport trips managed through the GIZTIX platform has increased by more than 420% or more than 500,000 transportation trips per year.

Mr. Sittisak said “The road transport business in Thailand is worth more than USD 19 billion a year and there is a huge opportunity to grow further as Thailand is also a strategic hub for transportation and logistics in the region. Unfortunately, businesses in the logistic sector still lack digital systems that will connect data and provide real-time communications. Therefore, it is an important opportunity for GIZTIX to help develop these businesses in Thailand using our digital technology, so they can be in line with the *National Logistics Master Plan.*”

# WHAUP Signs Prinx Chengshan Tire Solar Rooftop Project, Largest Solar Rooftop Project in ASEAN



**In the picture:** Ms. Jareeporn Jarukornsakul (4<sup>th</sup> from left), Chairman and Group CEO of WHA Group and Chairman of the Board of Directors of WHAUP, together with Dr. Niphon Bundechanan (3<sup>rd</sup> from left), CEO of WHAUP, and Mr. Zhang You Gan (4<sup>th</sup> from right), Managing Director of Prinx Chengshan Tire (Thailand) Co., Ltd. a subsidiary of Chengshan Group from China, jointly signed an agreement to install a solar energy system on the factory's rooftop, covering a total area of 229,000 square meters

WHA Utilities and Power PLC (WHAUP) signed a Power Purchase Agreement (PPA) on a solar rooftop project with Prinx Chengshan Tire (Thailand) Co., Ltd., the leading car tire producer and distributor from China, emphasizing WHAUP's potential to provide integrated energy and utilities services to customers in industrial estates.

Dr. Niphon Bundechanan, CEO of WHAUP, said this solar rooftop system at Prinx Chengshan's facility will be the largest of its kind in ASEAN with a total rooftop area of 229,000 sq.m. Electricity costs are expected to be reduced by approximately THB 1,750 million and CO<sup>2</sup> emissions offset by 366,000 tons for the 25-year contract period. Dr. Niphon disclosed that the project, once completed, will be the largest solar rooftop system in ASEAN with an electricity-generating capacity of 19.44 MW. This highlights WHAUP's potential in providing fully-integrated solar rooftop installation services and underlines the trust of Prinx Chengshan, which relocated its tire production to WHA Eastern Seaboard Industrial Estate 3 on a 280-rai plot in 2018.

The project will cover an area of 219,000 sq.m. of factory rooftop and 10,000 sq.m. of carpark area, representing a total electricity generating capacity of 19.44 MW. This will enhance energy stability and reduce electricity costs for the customer, create innovation to increase business opportunities, and help safeguard the environment by reducing global warming.

The solar system installation is expected to be completed by 2022, bringing the total electricity-generating capacity of WHAUP to 635 MW, based on its shareholding equity. The company expects to generate revenue from this project at an average of around THB 40 million per year throughout the 25-year contract period. This will take the solar rooftop business expansion to grow as planned to 300 MW by 2023.

Mr. Zhang You Gan, Managing Director of Prinx Chengshan Tire (Thailand) Co., Ltd. a subsidiary of Chengshan Group, said "I am delighted to sign the Solar Rooftop Power Purchase Agreement with WHA Utilities and Power PLC, which will enhance energy stability and reduce production cost for our factory. I'm confident that this project will benefit both parties and promote environmental protection in the long term."

Furthermore, this project will help the company achieve its longstanding goal of energy cost reduction to lessen its impact on the ecosystem. It will reduce electricity expense throughout the 25-year lifespan by up to THB 1,750 million, or THB 70 million per year on average. At the same time, it will offset CO<sup>2</sup> emissions by up to 366,000 tons, in line with environment policies to reduce global warming and greenhouse effect.

# WHAUP Launches Solar PV ECO System at Continental Tyres Factory in Rayong



**In the picture:** Dr. Niphon Bundechanan (4<sup>th</sup> from right), Chief Executive Officer of WHAUP, Mr. David Nardone (3<sup>rd</sup> from right), Group Executive - Industrial and International, and Mr. Vivat Jiratikarnasakul (2<sup>nd</sup> from right), Chief Operating Officer - Industrial and International, of WHA Industrial Development PLC respectively with Mr. Vignesh Devasenapathy (4<sup>th</sup> from left), Plant Manager and Mr. Andrei Tushinskii (3<sup>rd</sup> from left) Head of Plant Engineering, of Continental Tyres Thailand respectively, Dr. Narongsak Rattanasuwannachart (2<sup>nd</sup> from left) Key Account Director ASEAN Country Manager at Continental Automotive Bangkok, and other executives from both companies during the grand opening of the solar PV ECO system at the tires manufacturing facility of Continental, located in WHA ESIE 4 with a combined installed capacity of 4.2 MW

WHA Utilities and Power PLC (WHAUP) together with Continental, the international technology company from Germany and one of the world's leading tire manufacturers, marked on 1 December 2021 the grand opening of the solar PV ECO system at the tires manufacturing facility of Continental, located in WHA Eastern Seaboard Industrial Estate 4 (WHA ESIE 4).

Comprising a floating solar system on the factory's water pond, a solar rooftop system on its factory buildings as well as a solar car park, with a combined installed capacity of 4.2 MW, the installation has been finalized since its announcement in early 2021. On the festive occasion of the official opening, Dr. Niphon Bundechanan, Chief Executive Officer of WHAUP, outlined his plans to continuously expand solar rooftop projects, both inside and outside WHA Group's industrial estates, and increase its electricity-generating capacity to 670 MW this year, based on WHAUP's shareholding equity.

"Today is an auspicious day for the successful partnership of WHAUP and Continental Tyres (Thailand), and we are honored to celebrate together the official opening of our integrated solar power project," Dr. Niphon noted in his speech. Mr. Vignesh Devasenapathy, Plant Manager of Continental Tyres Thailand, added "The installation of solar energy systems in Rayong will generate electricity to the plant up to 138 GWh and at the same time lower carbon emissions as well as reduce the plant's energy costs by up to THB 360 million during their entire 25-year lifespan. This is a decisive contribution to fulfilling our climate protection strategy, which aims to operate in a carbon-neutral manner across the entire value chain."

Solar rooftops, representing a combined space of 27,400 sq.m., have been installed on two factory buildings, with a power generating capacity of 482 and 2,275 KW respectively. Solar carparks, covering a total of 8,400 sq.m., will generate 958 KW while a floating solar system, on a 7,000 sq.m. pond, will produce 475 KW. The complete 42,800 sq.m. installation will generate 4.2 MW of electrical power throughout the entire 15-year service agreement.

"WHAUP will focus on growing its businesses both inside and outside WHA industrial estates in Thailand and Vietnam, and is looking forward to exploring new investment opportunities," Dr. Niphon said. "Our target has been to install solar rooftops for another 40 MW in 2021, in addition to the 61 MW capacity at the end of 2020. We gradually began commercial operations (COD) for 22 MW in 2021 and WHAUP's electricity-generating capacity based on the shareholding equity has exceeded 670 MW in 2021, up from 590 MW the previous year."

"Continental Tyres Thailand appreciates the successful collaboration with WHAUP as well as their extensive and reliable expertise in the implementation of photovoltaic systems," Mr. Devasenapathy outlined. WHAUP's expertise in integrated solar power systems encompass all phases from design, engineering, installation and construction, in line with the widely recognized FM Global standards, as well as permit application and integrated after-sales services with the highest engineering and safety standards.

# WHAUP Invests THB 25 Million in Solar Rooftop Project with Energy Storage System



WHA Utilities and Power PLC (WHAUP) recently demonstrated its leading role in providing fully-integrated utilities and power services in industrial estates when the company launched an 820-kWp solar rooftop project, with a 550-kWh battery energy storage system (BESS) to supply power to the utility system in the Eastern Seaboard Industrial Estate (Rayong), also known as ESIE. After commercial operations commenced in November, WHAUP indicated that it will help reduce energy costs by approximately THB 4 million per year and lessen CO<sup>2</sup> emissions by up to 10,500 tons.

Dr. Nipon Boondechanan, Chief Executive Officer of WHAUP, revealed that the solar project with an energy storage system on the company's rooftop and in the area of its water purification plant is an important part of the utility system at ESIE (Rayong). The THB 25-million project includes a solar cell and the BESS were installed to produce and supply power to the water purification plant. It will store excess power and reuse it when the solar energy system cannot generate enough power to satisfy the plant's demand. With this system, solar energy can be utilized optimally and reduce energy costs, providing WHA Industrial Estate's utility system with better energy security and stability.

The solar rooftop project is considered a good solution to protect the environment, with easy installation and low costs. It also fits Thailand which enjoys long hours of sunlight. Given the country's constraints of the solar energy storage system, users cannot rely solely on solar power production. They have to use fossil-fuel power. As the BESS technology has become more developed with lower costs, these constraints have been reduced.



## Aiming to reduce costs and enhance energy stability of WHA Industrial Estates' utilities system

WHAUP is confident that the BESS system will play a bigger role in the near future, by convincing many more business operators to turn to solar power. Foreseeing the potential growth of this power storage system, WHAUP has accelerated on the development of solar rooftop and BESS investment to answer its customers' needs.

WHAUP's CEO Dr. Nipon added that the company has continuously been in discussion with customers in WHA industrial estates regarding solar rooftop and BESS installations. Customers with highest potential are those with high-cost production process and require high energy stability. Simultaneously, WHAUP has been conducting a study on the smart microgrid system with the use of solar and BESS systems towards increasing reliability and reducing energy cost for factories in WHA industrial estates.

In line with its commitment to enhance energy stability for business operators in WHA industrial estates, WHAUP is gearing up investment opportunities in solar energy projects. Towards the latter half of 2021, the company started supplying over 50 MW out of 85 MW solar power purchase contracts. The company's target was to increase solar power purchase contracts to 90 MW by the end of 2021, and to 300 MW in 2023, demonstrating its expertise in providing fully-integrated power and utility services for industrial customers.

# CUSTOMER SHOWCASE

## TD Tawandang Co., Ltd.

### A Vibrant New Tenant for WHA Mega Logistics Centers



Established 2 years ago under a profit-sharing concept with existing small scale store owners and partners, TD Tawandang Co., Ltd. was established by Mr. Sathien Setthasit, founder of the Carabao Group, famous for its Carabao Dang energy drinks. The family's venture into the retail business started 5 years ago with CJ Express Group that currently operates 530 CJ supermarkets. With a new model of convenience stores in mind, TD Tawandang was created in 2019 and quickly grew from 20 branches to a current network of 3,000 TookDee convenience stores in 60 provinces nationwide. The company expects to reach 10,000 and 50,000 branches in 2022 and 2023, respectively.

To run such a large network of stores requires strong and efficient logistics capabilities for storage and distribution of retail goods nationwide. With a workforce of 3,000 employees, the company now operates 5 warehouses in Khon Kaen, Nakhon Sawan, Ubon Ratchathani, Wangnoi and Chonburi. The last two are smart built-to-suit warehouses located at WHA Mega Logistics Center Wangnoi 62 in Ayuthaya province (9,645 sq.m.) and at WHA Mega Logistics Center Panthong (25,011 sq.m.), in Chonburi province.

"As we expand all over the country, we need strategic locations for our warehouses and efficient logistics to ensure quick distribution and delivery of goods to our stores," explained Ms. Tientham Setthasit, Executive Director of TD Tawandang. "From WHA Mega Logistics Center Wangnoi 62, we can distribute our products to the northern and northeastern regions; from WHA Mega Logistics Center Panthong in Chonburi, we serve the central and eastern provinces. The 'Smart Warehouse for Rent' concept of WHA Logistics is perfect for our expansion goals," she added.

Like all WHA Logistics' warehouses and facilities, TD Tawandang's distribution centers are designed and built to use smart logistics systems based on automation and new technologies to increase productivity and efficiency. "Our TookDee partners can significantly increase their revenue and improve their livelihood as well as the living standards of local communities. We strive to uplift the local community network and revitalize the country's grassroots economy," continued Ms. Tientham.

Leveraging on its high-tech business solutions, the company foresees a bright outlook and aims to become the largest retail network in Southeast Asia, serving over 100,000 mom-and-pop stores across ASEAN countries.



#### Contact Information:

Ms Tientham Setthasit  
Executive Director  
TD Tawandang Co., Ltd

# NEWSCAST WHA GROUP

## Kazakhstan Ambassador Presents Exclusive Jewelry to WHA Group CEO to Celebrate 30<sup>th</sup> Anniversary Independence

H.E. Ms. Raushan Yesbulatova (3<sup>rd</sup> left), Ambassador Extraordinary and Plenipotentiary of the Republic of Kazakhstan to the Kingdom of Thailand, presented a specially-handcrafted ring created by a well-known Kazakh jewelry designer to Ms. Jareeporn Jarukornsakul (center), Chairman and Group Chief Executive of WHA Group. A select group of outstanding businesswomen received the exclusive jewelry in celebration of the 30<sup>th</sup> anniversary of Kazakhstan's independence.



## WHAUP Welcomes Senate Energy Commission's Visit at WHA Industrial Estates



The management team of WHA Utilities and Power Plc. (WHAUP) recently welcomed the Senate Energy Commission's visit to WHA Eastern Seaboard Industrial Estate 1 (WHA ESIE 1) and Eastern Seaboard Industrial Estate (Rayong). The Senate Energy Commissions was shown around Gulf SRC Co., Ltd., an Independent Power Producer (IPP) and subsidiary of Gulf Energy Development PCL located at WHA ESIE 1. The site visitation aimed to present information regarding the management of utilities and energy used within WHA Industrial Estates including electric power and renewable energy.

## CUSTOMER NEWS

### Jelly Belly Signs Land Purchase and Ready-Built Factory Lease Agreement with WHA for Plant Expansion in EEC

Jelly Belly Candy Company (Thailand) Ltd., a subsidiary of the renowned American manufacturer of jelly beans and candies, recently signed a land purchase agreement for 12 rai at the Free Zone of Eastern Seaboard Industrial Estate (Rayong), to increase its production capacity. The company also renewed the lease of its existing 13,140 sq.m. factory building for another 12 years. The new contracts will enable Jelly Belly to expand its manufacturing operations and answer the growing demand from current and new customers in the region.



**In the picture:** Mr. Herman G. Rowland, Jr. (center), Vice President Managing Director of Thailand, Jelly Belly Candy Company (Thailand) Ltd, signed the land purchase and ready-built factory lease agreement to extend Jelly Belly Candy Company's operations in the EEC with Mr. David Nardone (3<sup>rd</sup> left), Group Executive - Industrial and International, WHA Industrial Development. Also present during the ceremony were company executives Mr. Vivat Jiratikarnsakul (2<sup>nd</sup> left), Chief Operating Officer, and Ms. Ladda Rojanavilavudh (3<sup>rd</sup> right), Vice President - Industrial Land and Building Customer Development, WHA Industrial Development PLC.



## WHA Group Congratulates Next Energy Development on New Office at WHA Tower



Ms. Jareeporn Jarukornsakul, Chairman and Group CEO of WHA Corporation PCL, along with WHA executives and staff, recently presented a bouquet of flowers to Mr. Pakpoom Wiparkulpitak, Chairman and CEO of Next Energy Development Co. Ltd., to congratulate the company on its new office at WHA Tower. Located in a distinguished landmark on Bang Na-Trat KM.7 road and equipped with the latest green technology, Next Energy will be able to enhance its operations and offer sustainable energy solutions to its growing client base in the country and the region.

**In the picture:** Ms. Jareeporn Jarukornsakul (center), Chairman and Group CEO of WHA Corporation PCL, offers a bouquet of flowers to Mr. Parkpoom Wiparkulpitak (3<sup>rd</sup> left), Chairman and CEO of Next Energy Development Co. Ltd. Also present were Mr. Kamolchai Praditpholphanit (2<sup>nd</sup> left), Vice President of Next Energy Development and executives from WHA Group.

## Yasun Abrasive Signs Land Purchase Agreement with WHAID to Expand Operations in Region

Yasun Abrasives (Thailand) Co., Ltd., manufacturer and distributor of high-quality abrasive wheels, recently signed a land purchase agreement with WHA Industrial Development (WHAID) for a plot of land at WHA ESIE 2. With its future state-of-the-art factory in Chonburi province, the company aims to increase its production capacity and supply its growing customer base in the region.



**In the picture:** (left to right): Ms. Ladda Rojanavilaivudh, Vice President, Industrial Land and Building Customer Development of WHA Industrial Development, Mr. Qian Shan, General Manager, and Ms. Sheng Xiaohong, Legal Representative of Yasun Abrasives (Thailand) Co., Ltd. respectively, during the virtual contract signing ceremony.

## Hong Fu Wood Signs Lease Agreement with WHA Industrial Development to Expand Operations in Prachinburi



Hong Fu Wood Trade Co., Ltd., a Chinese manufacturer and distributor of various types of wood, recently signed a ready-built factory lease agreement with WHA Industrial Development PLC. Located at Kabinburi Industrial Zone in Prachinburi province, the new factory covering 1,152 sq.m. will enable the company to ramp up its production capacity to meet rising demand from its clients across the region.

**In the picture:** Mr. Fuli Chen (3<sup>rd</sup> right), Managing Director of Hong Fu Wood, and Ms. Ladda Rojanavilaivudh (3<sup>rd</sup> left), Vice President, Industrial Land and Building Customer Development of WHA Industrial Development PLC, recently signed a lease agreement to expand Hong Fu Wood's operations in the region.

## WHA Group Gains Recognition for Its Smart Eco Industrial Zone Model In North Vietnam

*After successfully launching WHA Industrial Zone 1 - Nghe An, WHA Group is now expanding to Thanh Hoa province with another two industrial zone projects*

WHA Group, Thailand's leader in fully integrated logistics and industrial facilities, selected Nghe An province as the location for WHA Industrial Zone 1 - Nghe An, its first industrial zone project in Vietnam. As a result, WHA brought to Vietnam its expertise, acquired over 30 years, in the development and operation of world-class industrial zones that meet the needs of international and local investors.

With 11 industrial estates currently in Thailand, plus an additional 3 under development, and a successful track record of delivering internationally recognized standard infrastructure with high environmental care, WHA Group is well positioned to provide a wealth of experience and expertise. In less than five years, WHA Industrial Zone 1 - Nghe An has become one of the most attractive industrial zones in the country, thanks to numerous advantages such as state-of-the-art infrastructure, design and management combined with a competitive location and government incentives.

Firstly, WHA Industrial Zone 1 - Nghe An provides easy connection to air, sea and road transportation. Indeed, investors can benefit from the ability to access hub-and-spoke sea transportation via Lach Huyen deep sea port and the proximity to Vinh International Airport. Perfectly located between the new expressway CT 01 and the existing highway 1A, investors will have close access to the Hanoi-Ninh Binh expressway that will be completed by 2024.

Secondly, with 3.3 million people, including a labor workforce of 2 million, Nghe An province is the fourth-most populated province in Vietnam. Furthermore, with 7 universities, 9 colleges, 9 professional schools and 19 vocational training schools, Nghe An province produces 24,000 new graduates every year. The province also helps workers returning home from other locations to settle in and facilitates their recruitment by companies.

"Vietnam is now a major investment destination, attracting high-value FDI," explained Mr. David Nardone, Group Executive - Industrial and International, WHA Industrial Development PLC. "Thanks to the support of the Vietnamese government and provincial

authorities, Nghe An province has become an integrated hub for business, education, manufacturing, transportation and logistics, contributing further to the development and economic growth of Vietnam and the region," he said.

### **Following the start of operations, WHA Industrial Zone 1 - Nghe An demonstrates efficiency, reliability and sustainability**

WHA Industrial Zone 1 - Nghe An has completed its 143.5-hectare Phase 1, of which 54% is already leased. Customers from China, Japan, South Korea, Taiwan, Thailand and Vietnam, whose activities span across sectors such as electronics, food processing, automotive parts, solar energy and building materials have set up their operations. Construction of the 354.5-hectare Phase 2 will start early 2022. When fully completed, including Phases 1, 2 and 3 of combining 750 hectares and 1,100 hectares of subsequent expansion, the multi-million-dollar project will comprise a total of 1,850 hectares.

Investors in WHA Industrial Zone 1 - Nghe An benefit from the One-Stop Service provided by the Dong Nam Economic Zone Authority (DONEZA) and enjoy special incentives, including a Corporate Income Tax exemption during the first 4 years, a 50% tax reduction in the subsequent 9 years and a special tax rate of 10% for 15 years. Machinery and equipment imported to form fixed assets are exempt from import tax. Investors also receive a 5-year import tax exemption for goods imported for production, including raw materials, supplies and components that cannot be produced in the country. In addition, investors can benefit from competitive lease prices and receive WHA's assistance and services during project implementation, as well as active support from provincial government agencies and authorities.

WHA Group is applying in Vietnam the same high standards of infrastructure, design and management as in all its industrial estates in Thailand, especially in the field of environment care and protection. WHA Group has always considered that its industrial zones must co-exist with the environment in a harmonious and sustainable manner. The company carefully designs its infrastructure and manages its utilities to ensure minimum environmental impact, through its concept of 'Smart Eco Industrial Estates' that uses smart technologies



and digital innovations to ensure efficiency, reliability, security and safety at all times.

WHA industrial zones are internationally recognized for their high-quality standard infrastructure and world-class facilities in terms of design and management. At WHA Industrial Zone 1- Nghe An, 4-lane roads are built with concrete enabling roads to be of higher quality and durable, unlike most industrial zones where roads are made of asphalt. Flood prevention is ensured thanks to a 4.3-meter-high dike and a drainage pumping system, retention pond and flood channels. Fiber optic allows permanent high-speed internet. WHA Utilities and Power (WHAUP), WHA Group's subsidiary, provides reliable provision of water and a unique biological waste-water treatment central facility. In addition, investors will have access to reliable power with 22 KV lines as well as a dedicated substation inside the project from early 2022 onwards. Finally, a central monitoring room enables a whole series of environmental controls, including air quality management and wastewater treatment.

### **WHA Group's two upcoming industrial zones in Thanh Hoa province will strengthen Vietnam's Northern Technology and Industrial Corridors**

Encouraged by its initial success in Nghe An province, WHA Group announced in December 2020 the signing of a Memorandum of Understanding (MoU) with Thanh Hoa Provincial People's Committee (Thanh Hoa PPC) for the development of two new industrial zones.

With 73% of high-tech companies located in northern Vietnam, WHA Smart Technology Industrial Zone – Thanh Hoa, with its proximity to Thanh Hoa province main city, is well-poised to capture demand from high value technology investors and reinforce the country's Northern Technology Corridor. It will represent an

area of 540 hectares with an additional potential expansion of 270 hectares. The second, WHA Northern Industrial Zone – Thanh Hoa, with a gross area of 340 hectares, strategically located near the existing Nghi Son petrochemical complex, will target intermediate and downstream industries, including metal fabrication and foundries, automotive parts, mechanical assembly, building materials, chemical and bio-chemical products, plastics, electrical wire and others. Land relocation and construction are expected to commence in the 2<sup>nd</sup> half of Land relocation and construction are expected to commence in 2<sup>nd</sup> half of 2023 or early 2024. With Thanh Hoa province being the 3<sup>rd</sup> most populous province in Vietnam, investors in both projects will benefit from the large labor availability.

"Following the success of our first industrial zone in Nghe An province, we are delighted to embark on this new partnership with Thanh Hoa Provincial People's Committee" declared Mr. David Nardone. "We are looking forward to enticing FDI flows, while promoting long-term development with significant growth prospects. We will prioritize projects using advanced technology, modern and environment-friendly innovations, strictly adhering to environment laws and upholding responsibility to the community and society," he explained.

With the solid support of the Vietnamese government and provincial authorities, WHA Group aims to continue initiating solid projects to help attract and nurture foreign investments, explore skills development, promote job creation, introduce smart solutions for industries and contribute to rapid and sustained prosperity. A large part of its success in the country can also be attributed to the state's commitment to creating an attractive business environment for both international and local companies, through the introduction of regulatory changes and business-friendly policies.

## **Plastic Gia Nhat Vietnam Holds Groundbreaking Ceremony for Manufacturing Facility at WHA Industrial Zone 1 – Nghe An**



Plastic Gia Nhat Vietnam Co., Ltd., a manufacturer of plastic components for electronic devices, recently held a groundbreaking ceremony for its new plant at WHA Industrial Zone 1 – Nghe An. Equipped with advanced manufacturing capabilities, the state-of-the-art manufacturing facility will enable the company to meet the growing demand for its specialized products in the region.

**In the picture:** Mr. Kampol Noramat (7<sup>th</sup> left), Senior Site Manager at WHA Industrial Zone Nghe An JSC, congratulates Mr. Li Deng Jun (7<sup>th</sup> right), General Director, Plastic Gia Nhat Vietnam Co., Ltd., during the groundbreaking ceremony held recently in the presence of executives and staff of WHA Industrial Zone Nghe An JSC and Plastic Gia Nhat Vietnam Co., Ltd.

## BIODIVERSITY

It is reassuring to note that awareness of environmental issues has been growing constantly. We are starting to realize that if we continue living the way we do and make no effort to change our behavior, we may live to see the drastic changes to the environment that could negatively impact future generations. People in general, as well as the business and government sectors, are not doing enough to raise awareness on climate change and its irreversible effects in order to save the environment. We must gain a better understanding of nature, the environment and the ecosystems to reduce the risk of destroying them, albeit unintentionally.

One of the problems we tend to overlook is the loss of biodiversity. Caused by humans, this crisis has a tremendous impact on all of us. The interdependence in nature means that all living things are connected in a complex way. Therefore, losing any part of the ecosystem can have a great impact on us in one way or another. For example, bats play an important role as pollinators for cash crops, like durian, that generate substantial income. Destroying or eliminating bats because of the noise or the disturbance they cause would be part of the decline in agricultural productivity. Another example is the resurgence of the COVID-19 pandemic, which can be considered as a result of biodiversity loss.

### Biodiversity is generally divided into 3 levels:

**1. Genetic diversity:** By nature, every living thing consists of a large number of genes that control its characteristics and genetic compositions. Genetic diversity is an important force in evolution and for the adaptation of all living organisms. In addition, the genetic diversity of the same organism belonging to a different ecosystem can be different.

**2. Species diversity:** There must be a variety of species to maintain an ecosystem's natural balance. They can have a mutually beneficial relationship, like insects that feed on nectar from flowers and plants and spread seeds in different places; a relationship where species just coexist in the same area; or a predator-prey relationship. Without predators, for example, there would be too many producers, and consequently, the next level of consumers would be reduced as there will be no more food, and so on. This situation can disrupt the ecosystem.

**3. Ecosystem diversity:** Diversity allows living things to survive and each ecosystem is home to a great variety of genes and species. The existence of each ecosystem provides different values. For example, mangrove ecosystems can prevent the erosion of coastal and land ecosystems, while the vast marine ecosystems can absorb carbon and provide food and shelter for marine animals, plants, and other organisms.





We are interdependent on one another, and nature's mechanisms can be systematically driven under diversity. However, if we don't change our ways and we continue the gradual destruction of nature, it would certainly impact our life on earth. We have a duty to stop the destruction, starting with ourselves, by changing the way we live, by reducing the use of products that harm nature or natural resources, by respecting Mother Earth. NOW.

At WHA Group, we are aware of the issues and are determined to run our business with minimal environmental and social impact on our environment and society. As a leading industrial estates developer that houses factories on extensive areas of land across Thailand, it is our responsibility to protect the environment that it operates in, and to minimize potential impacts to biodiversity in the local areas. We practice environmental



quality, energy conservation and Biodiversity Policy to emphasize our commitment to protect nature and our surroundings.

We also conduct an Environmental Impact Assessment (EIA) study that covers the impacts of the industrial estates, logistics and utilities and power development projects throughout the construction phase. If the project is located within areas with high-biodiversity risks or its activities pose impacts to neighboring biodiversity, the respective project is required to determine mitigation measures to ensure that the ecosystem is well protected and preserved. WHA Group's responsible Environment Department is assigned to follow through with the identified mitigation and monitoring measures throughout the project life cycle.



## WHA Group Donates to Chulalongkorn University

WHA Corporation PCL recently made a contribution of THB 100,000 to Chulalongkorn University during the Piyamaharajanusorn event held annually to celebrate Chulalongkorn Day. On behalf of the company, Mr. Varanon Laosuwan (left), Director of Utilities Customer Development, WHA Utilities and Power PLC., handed over the donation to Ms. Atcharin Pattanaphanchai, President of the Chulalongkorn University Alumni Association under the King's patronage and President of the organizing committee to help deserving students facing financial difficulties purchase computers for online learning, and subsidize the school lunch program.



## WHA Helps Saraburi Flood Victims

Mr. Sunthorn Kongsunthornkitkul (3<sup>rd</sup> left), Advisor to WHA Industrial Development PLC, accompanied by representatives of WHA Saraburi Industrial Land (WHA SIL), presented a donation of THB 100,000 to Saraburi Deputy Provincial Governor Mr. Somphop Samitasiri (center) for victims displaced by the recent floods in Saraburi province.



## WHA Donates Funds for Low Income Families in Nghi Hung Commune

As part of its CSR program, WHA Industrial Zone Nghe An JSC presents a donation to the Fatherland Front Committee of Nghi Hung commune, Nghi Loc district, in Nghe An province in Vietnam to help disadvantaged families in the area. The funds will be used for projects and activities that will contribute to the overall development of the Nghi Hung commune.



## WHA Saraburi Industrial Land Receives Award for Safe Work Practices and Accident Prevention

WHA Saraburi Industrial Land (WHA SIL) developed by WHA Industrial Development PLC (WHA ID), was among the recipients of a special distinction from the Labor Protection and Welfare Office Saraburi for its support in the Accident Prevention Program, a pilot project to reduce the number of accidents in companies operating in Saraburi province. The recognition was presented by Saraburi's Deputy Provincial Governor Mr. Somphop Samitasiri (front row, center) to Mr. Rakphol Kangnoy (3<sup>rd</sup> left), Director, Industrial Estate Operations at WHA ID, and WHA customers in WHA SIL for their outstanding effort to promote employee welfare in a safe and productive work environment.



## WHA Delivers Drinking Water to Nong Khae Vaccination Center Organized by Social Security Office

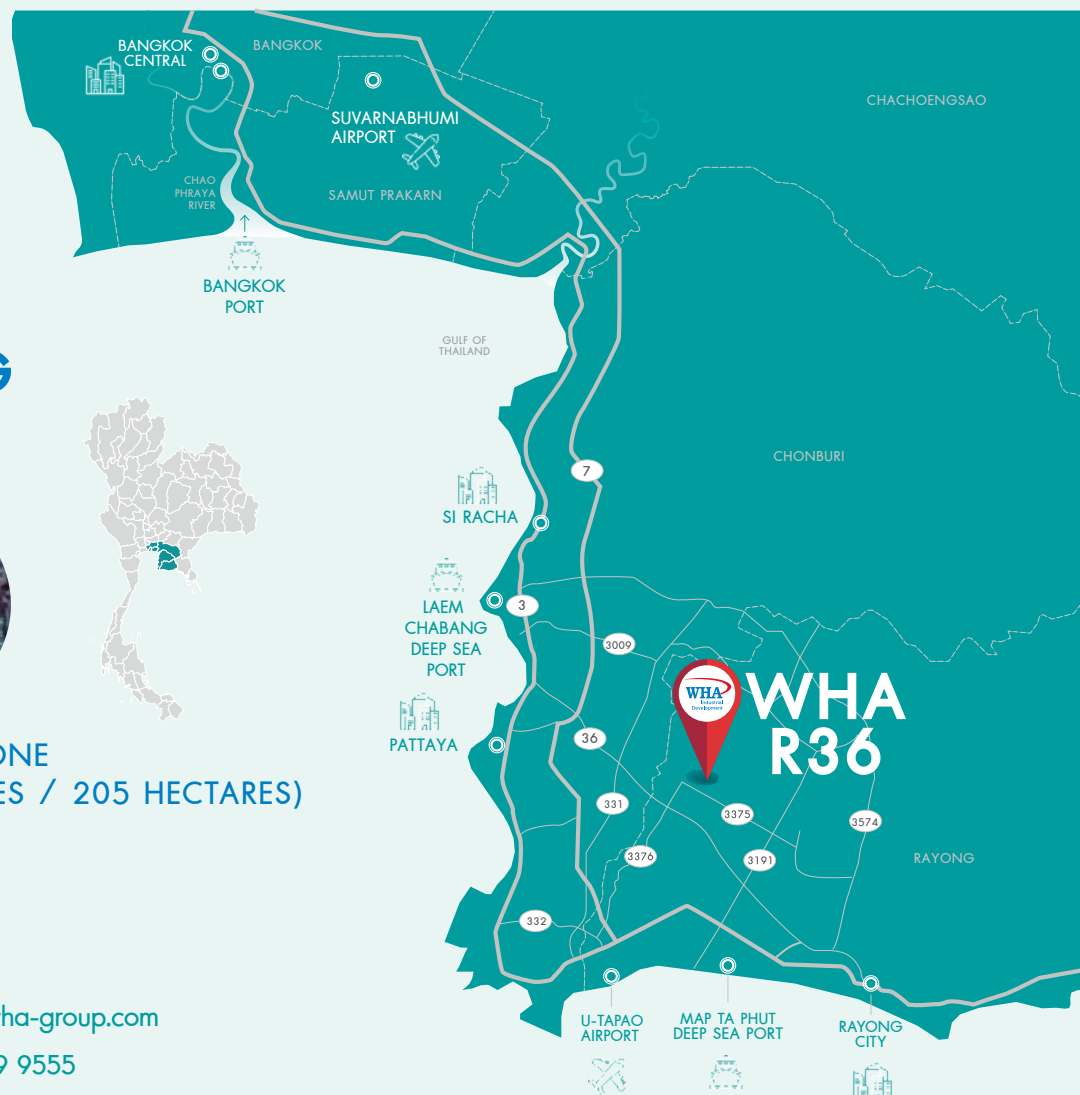
Mr. Narongsak Chatchawan (2<sup>nd</sup> left), Senior Site Superintendent at WHA Saraburi Industrial Land (WHA SIL), recently donated on behalf of WHA Industrial Development (WHA ID) 100 dozen-bottle packs of drinking water to the vaccination center set up by the Social Security Office (SSO). The donation was received by Ms. Pailin Jindamaneeporn (3<sup>rd</sup> left), SSO Chief Inspector-General, and SSO Saraburi officers Ms. Naruemon Cheorbundit and Ms. Kalaya Hemanat. The water was distributed to people from the districts of Nong Khae and Wihan Daeng who came to the Nong Khae Province Stadium for their first dose of the COVID-19 vaccine. WHA SIL values the importance of helping community members get their vaccinations to build immunity against the virus.



## WHA RAYONG 36 INDUSTRIAL ESTATE THE LATEST INDUSTRIAL ESTATE IN THE EEC



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# CSR ACTIVITIES

## WHA GROUP'S CSR PROJECTS AIM TO MAKE A DIFFERENCE IN THE COMMUNITY

For many years, WHA Group has been engaging with neighboring communities by participating in or sponsoring programs and activities that assist families and social groups enjoy a better quality of life. By addressing issues of relevance to the majority, interaction and communication are encouraged between the company, employees, customers, partners and community members.

Most activities for the months of July and August focused on helping those most affected by the COVID-19 pandemic. WHA Group Industrial Estate Rayong representatives went to Bangbut subdistrict in Ban Khai, Rayong, to distribute 'survival bags' containing basic necessities and food items to COVID-19 patients, those who had to self-isolate or had lost their jobs during the pandemic. WHA Rayong Industrial Land (WHA RIL) staff members prepared similar packages for residents of Nanglaloek subdistrict and delivered 100 mattresses to the Taksin Bankhai International Kindergarten Field Hospital in Wat Wai Krong, which can accommodate up to 1,000 patients.



Teams from WHA Rayong Industrial Land (WHA RIL) and WHA Rayong 36 (WHA R36) distributed food, water and essentials to a community isolation center in Mae Nam Khu subdistrict in Pluak Daeng and in Nikhom Phattana district, Rayong, respectively.

Drinking water, an essential nutrient to stay healthy, was delivered to several places to ensure community members stay hydrated during this challenging period. WHA Industrial Estate Rayong delivered 50 cases of bottled drinking water to Ban Khai Hospital and 30 boxes to an isolation center reserved for people at high risk of exposure to COVID-19. Another 50 cases were sent to a state quarantine center in Nong Bua in Ban Khai district.

WHA delivered 400 packs of drinking water to the Sanam Dome Daeng Hospital in Rayong's Wat Lahan Rai temple, for patients and medical staff, and supported the *Have and Share* program to aid those affected by COVID-19. Another well-appreciated contribution was the delivery of antigen test kits to the Bangbut SAO (Subdistrict Administrative Organization) in Rayong, which enabled the screening of community members to prevent further spread of the virus.





WHA also donated 20 packs of drinking water to the Nikhom Phatthana SAO for the Candle Festival held during the Buddhist Lent celebrations. The company is proud to help promote the conservation of cultural and religious traditions that are important for community members.



## Security and Safety for the Community

For the young members of the community, WHA Industrial Development PLC (WHAID) and WHA Utilities and Power PLC (WHAUP) jointly donated a cheque to Nikhom Sang Ton Eng 10 School in Pluak Daeng, Rayong, for the construction of new walls to ensure the safety of students, teachers and staff members.

Concerned about the health of residents, WHA organized the expansion of a water pipe system at a village in Ban Khai district to help households that had no access to running water for a long time.



To ensure the safety of the public, WHAID and WHAUP lent their full support to the Mae Nam Khu checkpoint at Pluak Daeng, Rayong, which monitors the movement of people in the area. This patrol station was established to help prevent the spread of COVID-19 to residents and other members of the community.

WHA teamed up for a concrete road project, Nong Ma Pring Rai 3 line, that was recently completed and delivered. This development has made it easier, safer and more convenient for commuters in the area.

WHA recently supported a project of the Ban Khai Police Station to equip policemen with mechanical skills, so they can assist Thais and foreigners who encounter vehicle problems on the road. The police-mechanics will be prepared to provide free road assistance 24/7.

## Caring for the environment

Over 300 trees were planted at Huachad-Rong Namtarn Rd district, Rayong, aiming to promote a greener environment and the area. The project was spearheaded by WHA to improve air quality, reduce soil erosion, and enhance the quality of life of community members.

For WHA Group, listening and learning about neighboring communities, their members and their specific needs is an essential part of being a good member of society. Passionate about making a difference, the company looks for opportunities to build strong relationships and create an atmosphere of mutual respect and caring. During the COVID-19 pandemic that has affected many families, disrupted routines and brought difficult times, WHA prioritizes its efforts to help those whose jobs, income and future have been impacted. Through its CSR program, the company continues to reach out and provide meaningful support through financial contributions and high impact activities to help keep community members safe, healthy and on track for a bright and hopeful future.





## UPCOMING COURSES March – October 2022

New training courses from well-known and reputable institutions in Thailand.

No.	Course	Training Date	Virtual Class
			Course / person (Baht)
1	Succession Planning & Talent Development	Mar 15, 2022	2,900
2	The Inspiration Leader	Mar 16, 2022	2,900
3	How To Engage Your Workforce	Mar 17, 2022	2,900
4	Power BI & HR Analytics Dashboard	Apr 19, 2022	2,900
5	People Management (HR for Non-HR]	Apr 21, 2022	2,900
6	Introduction To Supply Chain	May 12, 2022	3,600
7	HR Transformation Digital & Data Driven	May 13, 2022	2,900
8	Strategic Thinking to New Normal	Jun 14-15, 2022	5,000
9	Strategic HR Planning	Jun 16, 2022	2,900
10	Power of Coaching in Workplace	Jun 24-25, 2022	5,700
11	Problem Solving, 7QC Tools & 7 New QC Tools	Aug 9-10, 2022	7,000
12	How To Work With Difficult People	Aug 18, 2022	2,900
13	Microsoft Excel for reporting and Presenting	Sep 13-14, 2022	5,700
14	Business Model Generation for Innovation	Sep 20, 2022	2,900
15	Design Thinking	Sep 21, 2022	2,900
16	Effective Process Safety Management (PMS) Implementation	Oct, 2022	5,700

Prices exclude VAT 7%



### Registration

1. [www.wha-industrialestate.com/th/training-programs/training-programs](http://www.wha-industrialestate.com/th/training-programs/training-programs)
2. Scan QR code
3. Contact WHA Training Center: 033 017 224-6  
Email: [training@wha-industrialestate.com](mailto:training@wha-industrialestate.com)





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