

# SOUTHEAST • ASIA CONSTRUCTION

MAY - JUNE 2026



## Cover Story:

Road improvement project in Tha Sala, Thailand

## Features:

Singapore streamlines process for kit-of-parts construction

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**On the cover:** Road improvement project in Tha Sala, Thailand (page 44)

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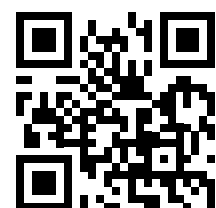
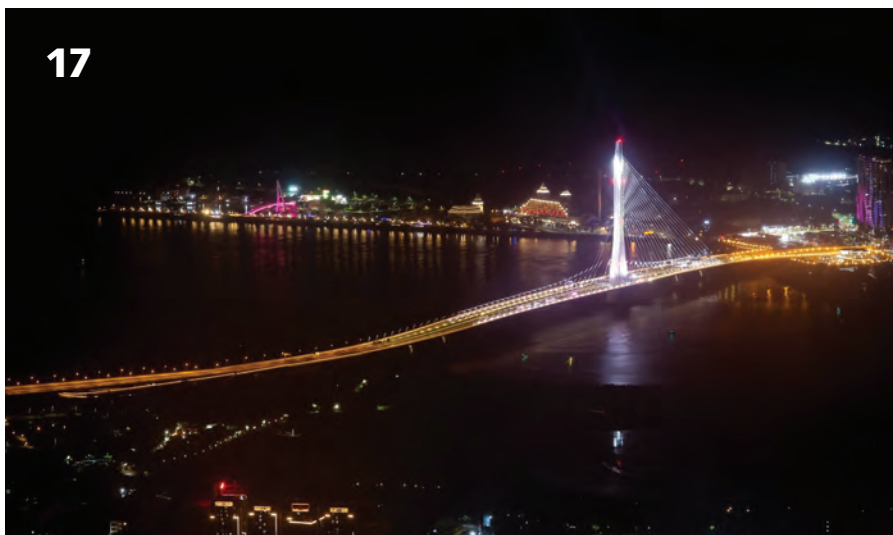
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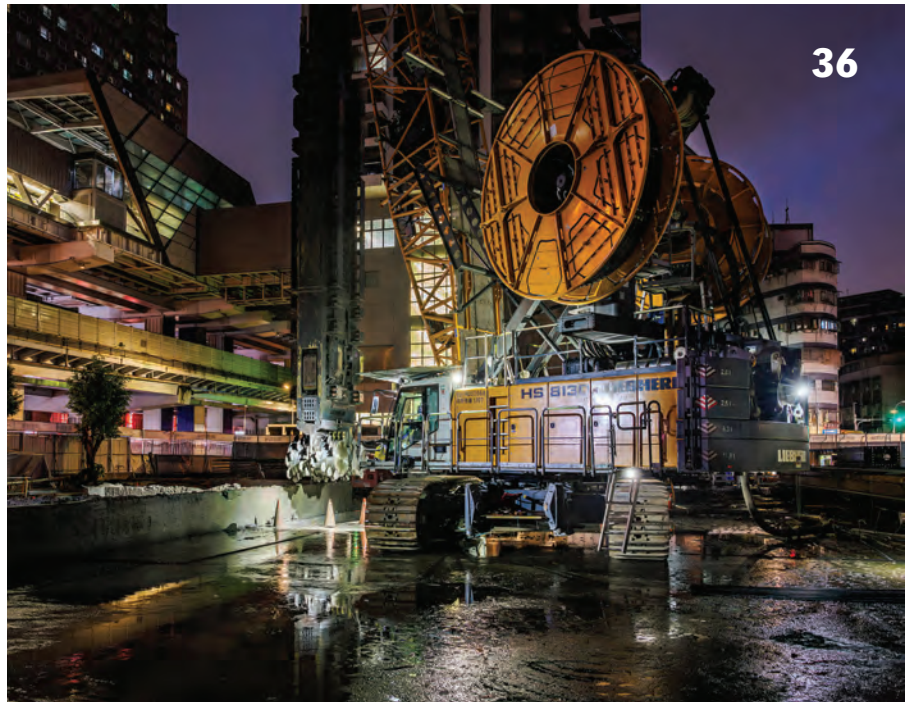


**GLOBAL EVENTS**



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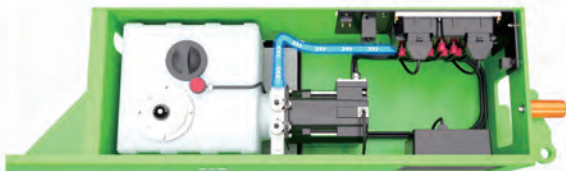
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# TotalEnergies and Nextnorth start construction of 440 MW solar project in Philippines

TotalEnergies and its partner Nextnorth, a Philippines-based renewable energy developer, have reached financial close and started construction of a 440 MWp solar power plant in Ilagan city, Isabela province. This facility is expected to be operational by the end of 2027 and produce 13.5 TWh over 20 years.

With a total cost of approximately US\$300 million, the project is owned by TotalEnergies (65%) and Nextnorth (35%) and financed by three international banks – Sumitomo Mitsui Banking Corporation (SMBC), ING Bank NV (ING) and Standard Chartered (SCB). It is considered the largest international financing for a solar project in the Philippines to date.

According to Olivier Jouny, SVP renewables at TotalEnergies, this 440 MW project will contribute to the 9 GW renewables portfolio that the company is combining with Masdar through a 50/50 joint venture across nine Asian countries.

“Energy security has never been more relevant for the Philippines than it is today. With rising demand and continued exposure to imported fuels, the country needs domestic, scalable and bankable renewable capacity. Working alongside TotalEnergies, we are delivering clean, reliable power that supports communities, creates jobs and advances the Philippines’ transition towards a more energy independent future,” said Miguel Mapa, president and CEO of Nextnorth.

TotalEnergies and Nextnorth said more than 50% of the



Image courtesy of TotalEnergies

**With rising demand and continued reliance on imported fuels, the Philippines needs domestic, scalable and bankable renewable energy. The new 440 MW solar project is expected to generate 13.5 TWh over 20 years once operational.**

project’s electricity will be sold under long-term offtake agreements with two retail electricity suppliers, AdventEnergy and PrimeRES, supplying commercial and industrial users seeking to decarbonise their operations. The remaining production will be sold to the national grid via its award under Round 4 of the Philippine government’s Green Energy Auction Program. ■

## Wika pushes ahead with Jenelata Dam construction in Sulawesi, Indonesia

Indonesian contractor PT Wijaya Karya (Persero) Tbk (Wika) is accelerating construction of the Jenelata Dam in Gowa Regency, South Sulawesi. As of the first quarter of 2026, the project had reached approximately 25.2% completion, with ongoing works focused on earth and rock excavation in the spillway and abutment areas, as well as construction of the dam’s main foundation.

Several critical activities, including foundation excavation, slope protection and access road construction, are being intensified, while the main dam area is being prepared for the embankment stage, according to Wika.

Targeted for completion by 17 June 2028, the project is expected to become a strategic infrastructure asset delivering sustainable economic, social and environmental benefits.

Modern technologies have been adopted during construction, shared Wika, such as the concrete face rockfill dam (CFRD) method and building information modelling (BIM) 5D, to enhance efficiency, accuracy and integrated project control.

With a storage capacity of 223.6 mil cu m, Jenelata Dam is designed to provide multiple strategic benefits, including flood control in the Jeneberang River Basin, irrigation supply for approximately 25,783 ha of agricultural land, and raw water supply for communities in Makassar, Gowa, Maros and Takalar.

In addition, the dam has the potential to support renewable



Image: Wika

**Jenelata Dam is currently under construction, with completion scheduled for June 2028.**

energy development through a hydropower plant with an estimated capacity of 7 MW, contributing to national energy transition efforts. ■

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# Vietnam's Phan Thiet civil airport project breaks ground

The civil aviation component of Vietnam's Phan Thiet Airport has begun construction, marked by a groundbreaking ceremony on 27 April 2026. Located in Mui Ne ward, Lam Dong province, the project covers nearly 75 ha and includes an 18,000 sq m passenger terminal.

Scheduled for completion within two years, the project is valued at more than VND 3,900 billion and has a phase 1 capacity of around two million passengers per year. It will be built to 4E standards, enabling modern wide-body aircraft operations.

The airport is designed for regular domestic flights and can also accommodate irregular international services, paving the way for direct international arrivals to Mui Ne – Phan Thiet in the near future.

Once operational, Phan Thiet Airport will significantly reduce travel times from major cities, including Hanoi, Ho Chi Minh City and Da Nang, as well as prominent tourist destinations such as Phu Quoc, to Phan Thiet.

The establishment of Phan Thiet civil airport is expected to attract a new wave of investment in resort real estate, commerce, logistics and aviation services, creating thousands of jobs and contributing to the socio-economic development of Lam Dong province. From a broader perspective, the airport will also play a strategic role in the south-central aviation network, strengthening connectivity with the southern key economic region.

"Phan Thiet Airport is not just an infrastructure project, but also the starting piece for the large-scale tourism – resort – aviation ecosystem that Sun Group aims to invest in Lam Dong in the coming time. Thereby, contributing to forming a new development space, promoting service and logistics industries, and enhancing investment attraction capacity for the entire region, while also creating convenient travel for local residents," said Dang Minh Trung, chairman of the board of directors at Sun Group. ■



The Phan Thiet civil airport spans nearly 75 ha and includes an 18,000 sq m passenger terminal. It will be built to 4E standards, enabling modern wide-body aircraft operations.



The groundbreaking ceremony of the project was held on 27 April 2026.

All images: Sun Group

## Tata Projects delivers Phase 1 of India's Noida International Airport

Indian contractor Tata Projects Limited has delivered Phase 1 of Noida International Airport ahead of its commercial launch. Developed by Yamuna International Airport Private Limited, a wholly owned subsidiary of Zurich Airport International AG, the airport is strategically located in western Uttar Pradesh and is expected to significantly strengthen aviation capacity in the National Capital Region while accelerating economic growth, logistics development, tourism, and urban expansion across the region.

Phase 1 includes Terminal 1, designed to handle 12 million passengers annually, supported by advanced digital systems for efficient passenger processing. The airport also features a 3,900-m runway capable of handling wide-body aircraft, a modern cargo terminal, an air traffic control tower, and extensive airside and landside infrastructure.

According to Vinayak Pai, managing director and CEO of

Tata Projects, the development involved more than 85 million safe man-hours and was delivered by a workforce of over 100,000 people.

The airport offers seamless connectivity through the Yamuna Expressway and will be integrated with future multimodal transport networks, including metro connectivity. Designed for long-term expansion, the airport will eventually serve 70 million passengers annually, supported by two runways, expanded terminal capacity, and dedicated aircraft maintenance facilities.

The facility integrates renewable energy through solar and wind power, rainwater harvesting systems, and sustainable construction materials, embedding environmental responsibility across every aspect of development. Tata Projects' EPC scope included construction of the terminal building, runway, airside and landside infrastructure, roads, utilities, cargo terminal, ATC tower, and ancillary facilities. ■

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# ACI: Asia's rapid growth and large population set the region apart, create opportunities

The American Concrete Institute (ACI) is steadily extending its global reach, with a particular emphasis on the Asia Pacific (APAC) region. Driven by a commitment to advancing concrete knowledge worldwide and engaging globally, key components of its Strategic Plan, ACI remains active in key international markets and continues to foster engagement outside North America.

One individual playing a central role in these expansion efforts is Zhu Liu, PE, director of the APAC region at ACI. He works to deepen engagement, strengthen collaboration on technical and educational initiatives, and promote the adoption of ACI codes, standards and certification programmes throughout APAC.

Mr Liu views his position as an opportunity to leverage both his engineering experience and personal heritage to amplify ACI's impact. With over 20 years as a structural engineer, he understands the needs of members and stakeholders across diverse regions. His international background – growing up in China and living in Canada, the US, the UAE and Saudi Arabia – gives him a unique and global perspective as well as deep ties to Asia.

"I believe my position helps people on a global scale, especially in APAC, where I feel personally connected," said Mr Liu. "I have two high-level goals I am working on, which is to exchange knowledge with developed countries and bring knowledge into developing countries."

## Challenges in APAC

In working across the APAC region, Mr Liu has encountered significant diversity in language, culture and economic standing. Asia is home to both the richest and poorest countries and contains more languages and cultures than any other region. This diversity, combined with robust economic growth over the past decade, makes the region both promising and complex as ACI strengthens its presence.

According to ACI, one specific challenge involves the reference standards used across the region. Most Asian countries rely on non-ASTM testing methods, which can complicate the adoption of ACI codes and certification programmes that often reference ASTM standards. To address this, ACI has begun partnering with ASTM to



**Zhu Liu, director of the APAC region at ACI, said education and training may be the most important things the institute can do in East Asia.**

encourage the adoption of ASTM testing standards across APAC.

"Looking at an analysis of concrete usage in Asia, it is higher than any other region as far as annual compound growth rate or absolute volumes are concerned," said Mr Liu. "ACI standards and certification programmes could be used by almost all developing countries in Asia if we can gain acceptance for ASTM testing methods in the region."

## APAC local chapters

Another important consideration is raising awareness of the benefits of being allied with ACI. Sometimes, these advantages are not well understood locally, highlighting the need for Mr Liu's continued outreach. He actively connects with local chapters and members, gathering feedback and setting up one-on-one meetings with governmental bodies through these networks.

Mr Liu emphasised the importance of open dialogue with local governments. By listening first to stakeholders, he can tailor ACI's offerings – whether documents or programmes – to fit local priorities and needs. He described this as an interactive process that requires multiple conversations to identify the most effective solutions.

In some developed countries, established codes are already in place, and there may be reluctance to make changes, shared ACI. Here, the institute can evaluate its offerings beyond ACI Code-318-25: Building Code for Structural Concrete – Code Requirements and Commentary to find appropriate options. For developing countries, the opportunity is even greater, as their codes may not yet be fully matured. In these cases, local agencies might be open to adopting models based on ACI Code-318-25, customised for local practices and translated into local languages.

## The role of education and training

Education and training stand out as major

priorities for government agencies across the region, given the focus on maintaining construction quality. This creates an opportunity for ACI's educational and certification programmes. Conducting research into local practices, training approaches and certification needs is key to ensuring these programmes are effective.

"Education and training may be the most important things ACI can do in East Asia," said Mr Liu. "Developing countries need whatever they can find to improve the quality of design and construction. Developed countries instead might be more interested in continuing education."

ACI's commitment to sustainable construction practices is also a critical aspect of its global strategy. The institute has long been a leader in sustainability, and Mr Liu's approach starts with engaging chapters that act as ACI's local champions. These chapters can help guide conversations on sustainability and define ACI's position within them. In regions without an established chapter, Mr Liu's plan is to begin with student chapters to build a foundation for growth.

"With their help, we can find our position in the conversation," he said. "For those regions without chapters, we need to establish one, starting with a student chapter."

## Future vision

Looking ahead, Mr Liu noted that Asia's rapid growth and large population set the region apart. This dynamic environment creates new opportunities for both ACI and the countries involved. His focus is on supporting developing countries that require the most assistance from ACI, while also working with mature markets like Singapore, which could play a central role in ACI's future activities in the region.

Mr Liu underscored that ACI's leadership, technical resources and recognition exceed those of any other organisation in the industry. Beyond providing direct support, ACI can act as a connector, linking local people with governments and less-connected institutes. Its influence extends beyond country borders, helping to facilitate knowledge exchange across disciplines, industries and nations. ■

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## Rockster appoints A+Tradex as new dealer for Taiwan

Expanding its footprint in the Asian market, Rockster GmbH has appointed A+Tradex as its new authorised dealer for Taiwan. This move also reinforces Rockster's commitment to strengthening customer proximity in key growth markets.

The dealership agreement was concluded between Rockster's general directors, Norbert Feichtinger and Pawel Kononczuk, and representatives of A+Tradex, Ashley and Sven. It was formally signed during a meeting of the two companies at IFAT Munich in early May, one of the world's leading trade fairs for environmental technologies.

Both companies met not only to finalise the dealership agreement but also to align on future market development strategies. The event provided an ideal platform for discussions on product positioning, service structures and long-term cooperation goals.

Rockster pointed out that "A+Tradex brings extensive market knowledge and a strong network within the construction and recycling industries, making it a strategic fit for Rockster's continued international growth."

With Taiwan's increasing demand for efficient recycling solutions, particularly mobile crushing and screening technology, Rockster sees strong potential for its advanced impact and jaw crushers in the region. The partnership with A+Tradex is intended to ensure local expertise, fast customer support, and tailored solutions for contractors and recycling companies across Taiwan.

"Expanding into Taiwan with a strong and committed partner like A+Tradex is an important step for Rockster, especially after putting into operation five crushers in the past year. Their market understanding and technical expertise will ensure that our customers in Taiwan receive not only the best equipment but also first-class service and support," said Rockster's general directors, emphasising the significance of local partnerships in delivering high-performance solutions to customers worldwide.

"We are proud to represent Rockster in Taiwan. The quality and flexibility of Rockster's mobile crushing and screening solutions align with the needs of our customers," said A+Tradex's Ashley and Sven. "We look forward to building a strong presence for Rockster in the Taiwanese market." ■



Rockster is expanding in the Asian market with the appointment of A+Tradex as its authorised dealer for Taiwan. Seen here from left are Rockster's Pawel Kononczuk, A+Tradex's Sven and Ashley, and Rockster's Norbert Feichtinger.



The dealership agreement was formally signed during IFAT Munich. With this partnership, Rockster can offer local expertise, fast customer support, and tailored solutions for contractors and recycling companies across Taiwan.

## Boustead Projects secures major contracts in Singapore

Boustead Singapore Limited has announced that Boustead Projects E&C Pte Ltd (BP E&C) – the group's engineering & construction business under the Real Estate Solutions Division – has been awarded a contract worth over S\$400 million for the construction of an office complex in Singapore.

According to the group, this is its largest contract by value to date. Awarded by a public sector client, it is expected to span a period of three years. BP E&C's track record in public sector projects also includes JTC Kranji Green, Singapore's first multi-storey recycling facility, and JTC semiconSpace@Tampines.

"We are delighted to be awarded this public sector project,

which marks our largest project to date in terms of contract value. We look forward to building on our track record in the public sector space, with a strong focus on execution excellence and stringent quality, environmental, health and safety requirements," said Thomas Chu, managing director of BP E&C.

Earlier, BP E&C was also awarded a contract in excess of S\$100 million to build a 10-storey ramp-up industrial development at Tukang Innovation Drive in Singapore. Construction is expected to be completed within 24 months. The facility will comprise over 260 strata-titled units with flexible configurations tailored for heavy industrial operations. ■

# Gammon, Hongkong Land bring CarbonCure low-carbon concrete to Hong Kong for the first time

Contractor Gammon Construction and developer Hongkong Land have partnered to introduce CarbonCure technology to Hong Kong. Both companies are deploying the patented CO<sub>2</sub> mineralisation technology in 'Tomorrow's Central' project, marking its first use in Hong Kong. This collaboration pioneers low-carbon building materials in the city and accelerates the wider industry's transition.

## Highly effective low-carbon solution

Embodied carbon accounted for 70% of Hongkong Land's total carbon emissions in 2025, with industry research indicating that more than 80% of the embodied carbon in a typical new commercial building is associated with concrete, brick and steel. Cement production generates about 7% of global CO<sub>2</sub> emissions, more than three times that of civil aviation, making it a critical decarbonisation priority.

CarbonCure offers one of the most effective solutions, reducing cement content by 4-7% without compromising concrete quality or performance. This technology injects captured CO<sub>2</sub> into fresh concrete during mixing, where it undergoes a chemical reaction to form a mineral, permanently trapping carbon within the material. When combined with a low-carbon concrete mix containing approximately 40% ground granulated blast-furnace slag (GGBS), a 34% carbon emissions reduction is achieved compared to traditional concrete.

Implementing this technology supports Hongkong Land's target of achieving a 22% reduction in Scope 3 carbon intensity by 2030. It also aligns with Tomorrow's Central project's sustainability objectives, including using 100% low-carbon concrete, 100% green rebar, and 100% sustainable timber during construction, and to divert 75% of construction waste.

Tomorrow's Central is Hongkong Land's bold three-year plan to transform the Landmark retail portfolio. Announced in June 2024, the project is ambitious in its scope, encompassing extensive facade enhancements, retail renovations and office lift-lobby relocations. From inception, sustainability has been the project's guiding principle.

The CarbonCure concrete mix technology was deployed by Hongkong Land and Gammon in November 2025, after approval by Hong Kong's Buildings Department in September 2025, following a rigorous 18-month testing and preparation period.

"Sustainability is a key business priority for Hongkong Land. Using lower-carbon concrete on Tomorrow's Central helps to advance the goals of our Sustainability Framework 2030. As the first developer to apply this technology in Hong Kong's premium commercial sector, we continue to demonstrate our commitment to innovation and encourage wider industry uptake," said Michael T. Smith, group chief executive of Hongkong Land.

"By permanently mineralising carbon within building materials and reducing cement use, lower-carbon concrete represents a meaningful step forward in embodied carbon reduction," said Eddie Tse, group sustainability manager of Gammon Construction. "With this successful deployment, we look forward to extending similar innovations across the industry and collaborating with more clients to drive low carbon construction in Hong Kong." ■



FROM LEFT: Eddie Tse, group sustainability manager, Gammon Construction; Ka Yan Chu, assistant technical manager, concrete technology services, Gammon Construction; Grace Lam, senior sustainability manager, Hongkong Land; and Meiling Ng, assistant general manager, projects, Hongkong Land.



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# Danjiang Bridge: Taiwan inaugurates new iconic landmark

The inauguration ceremony for the Danjiang Bridge – dubbed the world’s longest single-mast asymmetric cable-stayed bridge – took place on Saturday (9 May), ahead of its official opening to traffic on 12 May. This major milestone comes after almost 30 years of planning and construction.

Designed by the late architect Zaha Hadid, the bridge spans nearly 1 km across the mouth of the Tamsui River in northern Taiwan, featuring a single curved mast inspired by the movements of dancers from Cloud Gate Dance Theatre. It was recognised by CNN as one of the 11 architecture projects set to shape the world in 2025.

An iconic engineering landmark, the Danjiang Bridge serves as a regional transport link connecting the Tamsui and Bali districts. Its opening will shorten journeys by 15 km and reduce travel time by around 25 minutes, while traffic on existing routes is expected to fall by 30%. It will also help ease congestion around the Guandu Bridge and improve access between New Taipei and Taoyuan International Airport.

The project was first proposed in 1998 but faced years of delays due to environmental reviews, design revisions and construction difficulties. It finally began construction in 2019 after multiple failed tenders, with engineers subsequently overcoming challenges ranging from underwater leaks to strong winds at the river estuary.

“This bridge is Taiwan’s pride. It will become a landmark for Taiwan and another calling card for the country on the



The opening of the Danjiang Bridge marks a major milestone for Taiwan after nearly three decades of planning and construction. This new bridge serves as a regional transport link connecting the Tamsui and Bali districts.

international stage,” said Taiwanese President Lai Ching-te at the inauguration ceremony held in New Taipei. “I also hope people across the country can, through the construction of the Danjiang Bridge, feel the respect Taiwan has earned internationally. If we stand united and work together, Taiwan will certainly become even better.” ■

## Philippines awards detailed engineering design contract for Clark International Airport second runway

The Philippines’ Bases Conversion and Development Authority (BCDA) has awarded the detailed engineering design work for the second runway at Clark International Airport (CRK) to a joint venture of Schema Konsult Inc and South Korea-based Yooshin Engineering Corp.

The additional runway will serve as a backup to the main runway in the event of operational disruption or unavailability, ensuring continuity of safe operations and enabling non-stop airport activity, according to BCDA. This expansion is also expected to support increasing demand from logistics carriers and improve overall airport efficiency.

The project, valued at Php206.9 million, contributes to the country’s efforts to modernise its transport infrastructure and strengthen the logistics network along the Luzon Economic Corridor.

“By building a second runway, we are taking a significant step toward strengthening CRK’s operational resilience and long-term capacity. This development will build in redundancy to ensure uninterrupted operations, minimise the risk of disruption, and enhance Clark’s competitiveness as a premier logistics and

aviation hub,” said BCDA president and CEO Joshua M. Bingcang.

“More importantly, this development will benefit Clark and the wider Central Luzon region by enhancing connectivity for locators and businesses, while also generating more employment opportunities for the local communities as airport and related support services expand.”

The detailed engineering design phase is expected to be completed by the second quarter of 2027. BCDA will then conduct a separate bidding process for the construction phase, with the new runway scheduled to be operational by the fourth quarter of 2029.

The Clark International Airport is fast emerging as a premier gateway in the Philippines, having served 2.75 million passengers in 2025. To meet growing demand, as well as the operational requirements of its locators, BCDA, in partnership with the Department of Transportation, is pushing forward the development of additional airside infrastructure, including taxiways, aprons, runways and utilities. These will enable the airport to accommodate more aircraft movements, improve turnaround times and boost overall operational efficiency. ■



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# Italian manufacturer Indeco to become part of Wipro Hydraulics

Indeco, a leading Italian company in the global design and manufacture of hydraulic equipment, has signed a definitive agreement for the acquisition by Wipro Hydraulics, one of the world's largest independent manufacturers of hydraulic cylinders and a company within the Wipro Infrastructure Engineering group.

"Together, we are ready to conquer new territories, ensuring a more widespread market presence and unrivalled technological capability," said Indeco. Becoming part of the Wipro Group will enable Indeco to accelerate product development, strengthen its industrial and commercial structure, and optimise production processes, while retaining the brand's quality and distinctive identity.

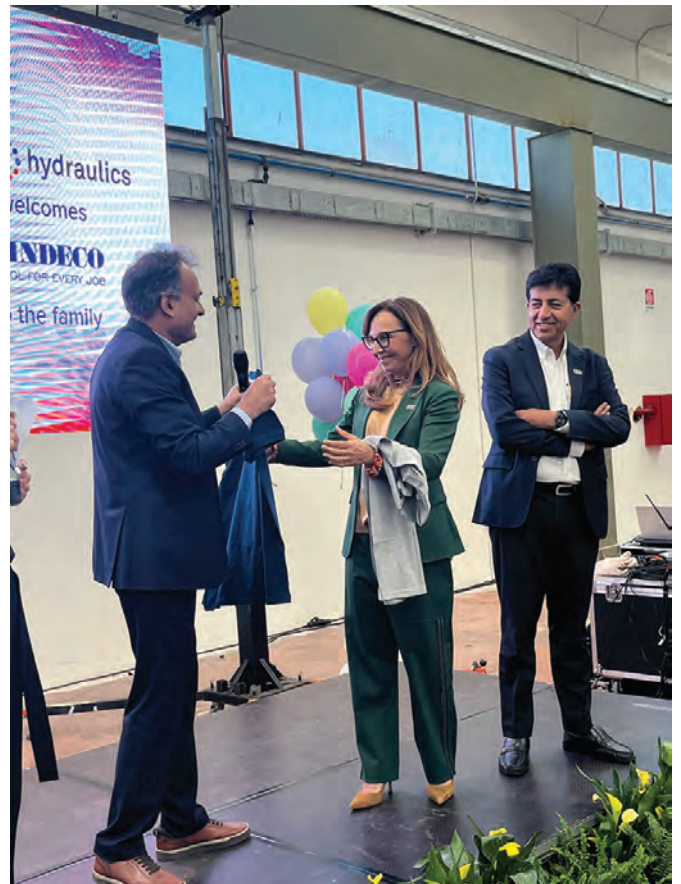
"Despite our global outlook, our roots remain firmly planted," added Indeco, affirming that production will stay local and that the Vitulano family will continue to be fully involved in leading the company, alongside the management of its international branches,

to ensure both operational and strategic continuity.

Indeco further highlighted that the partnership is not just a commercial deal but the meeting of two long-established industry leaders celebrating 50 years of engineering excellence. It brings together Indeco's manufacturing strength and Wipro's global scale to create powerful synergies.

"After 50 years, a new and significant chapter in our history is beginning," said Michele Vitulano, global sales and marketing manager at Indeco. "We have chosen Wipro Hydraulics because it is the ideal partner to accompany us into a new phase of development: a solid, international organisation that shares our values and can support us in making Indeco even greater.

"Our identity will remain intact, as will our daily commitment to our customers and partners. This partnership will bring new resources, new energy and new opportunities for innovation. A major challenge for Indeco, but an even greater one for its competitors." ■



ABOVE: Susanna Vitulano, CEO of Indeco Ind Spa (centre), with Sitaram Ganeshan, president of Wipro Hydraulics (left), and Pratik Kumar, CEO of Wipro Infrastructure Engineering and managing director of Wipro Enterprises (right).

LEFT: By joining the Wipro Group, Indeco is able to accelerate product development, strengthen its industrial and commercial structure, and optimise production processes, while maintaining the brand's quality and distinctive identity.

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# New guidance on recycling and reusing construction materials in buildings

Global built environment consultancy Arup has published guidance for the property industry on adopting a more circular approach to both new-build and retrofit projects, with a greater focus on keeping buildings and materials in use for longer.

Construction consumes around half of all raw materials extracted globally, and every week the world adds new buildings equivalent to the size of Paris. Report authors argue that the sector can cut costs, carbon and waste by keeping structures in use for longer and reusing more components when buildings change.

## Practical roadmap

Arup's new 'Reuse Playbook', created in partnership with the Ellen MacArthur Foundation and Circular Leaders Group, responds to one of the sector's most persistent barriers: uncertainty over the performance and reuse potential of existing structures and reclaimed materials. The guidance provides a practical roadmap for developers, designers, contractors and insurers to bring more materials back into circulation and reduce the amount sent to landfill. [It sets out:](#)

- How design teams can use tools such as digital material passports and advanced testing methods to make reuse, recycling and upcycling more predictable and commercially viable.
- How reuse can retain value that is often lost through material depreciation and premature demolition.
- How the future value of components, whether through salvage, reuse or recycling, can be integrated into cost plans and sensitivity testing, turning a perceived cost into a measurable long term benefit.
- How external pressures, including carbon taxes, subsidies, government mandates and ESG commitments, create incentives that strengthen the financial case for reuse and recycling.

The guidance also outlines the roles of developers, designers, contractors and insurers in bringing reclaimed materials back into circulation and integrating them into new schemes. In addition, it argues that clearer data, better testing and more consistent processes can help developers and insurers make decisions with higher confidence, particularly on complex retrofit schemes.

The challenge facing the property sector is reflected in the fact that an estimated 10% of the 40,000 tall buildings around the world are nearing the end of their life and are likely to face demolition. Many of these buildings are structurally sound but could be upgraded to meet modern building standards and commercial requirements, making the case for increased reuse and recycling in the construction sector even stronger.

## Demolition no longer 'default position'

In Singapore, policy and industry measures are helping shift attention towards retaining value in existing buildings, such as pre-demolition audits and site waste management, which maximise material recovery for reuse and recycling.

Across East Asia, regulation and market guidance are increasingly encouraging improvement of existing buildings, alongside greater attention to how they are upgraded, adapted or taken apart. Measures that promote performance reviews, resource efficiency and better operational outcomes – supported by practical industry guidance – are shaping decision making

around the existing building stock. Together, these signals are reinforcing reuse and retrofit as credible, lower carbon pathways for the region's built environment.

"Property developers cannot afford to ignore the commercial benefits of circular design and material reuse. Now more than ever, technological innovations and AI offer more opportunities to better understand the condition and potential of existing buildings and their components. This enables retrofit, reuse and upcycling to be scaled and become more commercially viable," said Anthony Chiu, APAC property, science and industry leader at Arup. "As an industry, we are glad to see enhanced incentive to move away from demolition being the default position."

## Quay Quarter Tower: a global benchmark for upcycling

One example of upcycling in action is the Quay Quarter Tower project in Sydney, Australia – widely recognised as the world's first upcycled skyscraper and recently named a finalist for the Earthshot Prize. By retaining and reimagining the existing structure, the project demonstrates how upcycling can deliver high-performing, commercially competitive buildings while dramatically reducing carbon.

The project retained 65% of the original floorplates and structure, preserved 98% of structural walls and core, saved 12,000 t of embodied carbon, and became the first commercial tower to retrofit double-deck lifts, freeing 120 sq m per floor and avoiding nine lift shafts.

## The importance of AI and digital tools

Guidance authors also point to advances in AI and digital tools, which are rapidly reducing the uncertainties that have long made reuse and upcycling difficult to assess, giving project teams clearer evidence about what can be retained, refitted or reclaimed. [Recent examples include:](#)

- **AI-driven vibration assessments:** In London, Arup used machine learning to analyse a 29-storey 1960s office tower, significantly reducing the required strengthening works and improving the overall project viability for refurbishment rather than demolition.
- **Immersive 3D modelling** to test retrofit options before construction, allowing teams to compare scenarios and avoid unnecessary interventions.
- **Digital material passports** mapping the condition and reuse potential of thousands of components on projects such as the Circular Building and major refurbishment schemes.
- **Advanced structural testing:** At Euston Tower, Arup extracted and tested cast in-situ concrete slabs for use as new 'precast' elements, demonstrating their strength and enabling one of the earliest examples of structural concrete reuse.

Anne-Sophie Duret, green business and circularity lead at AXA, said, "From an insurance perspective, wider adoption of reuse will depend on clear professional recommendations, stronger evidence on performance and more consistent standards across the market. Practical guidance like this from Arup can help developers, designers and insurers make better-informed decisions about the reuse of materials and existing structures, particularly on complex projects where confidence and clarity are essential." ■

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# Simplified process for kit-of-parts construction in Singapore; shorter hiring timelines for new workers

The Building and Construction Authority (BCA) has rolled out new measures to accelerate the transformation of Singapore's built environment sector. Speaking at the BuildSG LEAD Summit on 30 April 2026, Minister for National Development Chee Hong Tat unveiled these initiatives as part of the Action Team to Improve Built Environment Productivity's efforts to create a more pro-enterprise ecosystem and drive further productivity gains.

## Faster approval process for kit-of-parts method

One of the initiatives is the introduction of buildability type approval, a new regulatory pathway that will benefit developers and project teams adopting the kit-of-parts (KoP) approach – described by some as the 'Lego bricks' approach, noted Mr Chee – across their projects.

The KoP approach involves the use of pre-designed and prefabricated standard building components for multiple projects to reap greater efficiencies in manufacturing and assembly. While the components may be standardised, consultants can vary their building layouts and facade designs to differentiate their projects and cater to users' needs.

Examples of possible pre-designed parts include architectural elements (e.g. facade walls and parapet walls), structural elements (e.g. household shelters, bathroom units and staircases), and mechanical and electrical (M&E) elements (e.g. integrated M&E ducts).

From 30 April 2026, developers will only need to submit a design standardisation plan (DSP) outlining typical spatial grids and sizes, and a catalogue of standardised/modularised parts once for BCA's acceptance, instead of making individual buildability and constructability submissions for multiple projects using the same KoP.

"The buildability type approval for the KoP approach enables a pre-validated regulatory pathway through the cataloguing of repetitive designs that shortens the design-to-approval cycle," said Aaron Foong, managing director of KTP Consultants. "This initiative elevates engineering design productivity by systematising routine processes and improving consistency across the supply chain delivery."

With this streamlined approval process, consultants are expected to save around 320 man-hours per project. The

**"Standardisation also supports scalability and industry-wide adoption of advanced technologies. Whether it is automation in precast production, digital design integration, or robotics on site, these solutions are far more effective when working with standardised components and workflows."**

Teambuild Engineering and Construction on the adoption of KoP approach.



Image: Ministry of National Development (MND)

At the BuildSG LEAD Summit 2026, Singapore's Minister for National Development Chee Hong Tat unveiled several new initiatives to create a more pro-enterprise ecosystem and increase productivity in the built environment sector.



Image: War Studio (via BCA)

The BuildSG LEAD Summit took place on 30 April 2026 at Gardens by the Bay, Singapore.

KoP approach is anticipated to decrease precast component manufacturing costs by at least 10% and manpower needs by at least 20%. In addition, it could facilitate access to a greater variety of precast sources.

Major public sector developers are in the process of adopting the KoP approach. For example, the Housing & Development Board (HDB) is developing an enhanced precast components catalogue (EPCC) comprising building components with established specifications such as standard dimensions, material content and connection details. The Ministry of Education (MOE), Ministry of Health Holdings (MOHH), the Land Transport Authority (LTA), and JTC are also embarking on similar efforts for schools, healthcare facilities, commuter facilities (e.g. bus shelters and covered walkways), industrial buildings, and workers' dormitories, respectively.

"We will also review how we can incentivise more private sector developers to adopt the kit-of-parts approach," added Mr Chee. "BCA will work with our developers on this to get your ideas and feedback, so that we can co-create a set of incentives that will

fit well with your commercial and operational needs.”

From an operational perspective, Tan Poh Tuck, executive director of building construction at Teambuild Engineering and Construction, pointed out that “precast standardisation enhances efficiency across the entire value chain. In our precast operations under Integrated Precast Solutions Pte Ltd, it enables better mould reuse, production planning and resource optimisation, which directly improves throughput and reduces wastage.

“On site, Teambuild Engineering and Construction benefits from simplified installation processes, and potentially shorter cycle times, contributing to safer and more predictable project delivery. Importantly, standardisation also supports scalability and industry-wide adoption of advanced technologies. Whether it is automation in precast production, digital design integration, or robotics on site, these solutions are far more effective when working with standardised components and workflows.”

### Reduced time for hiring new workers

To expedite the process of bringing in new workers, BCA announced that the mandatory pre-entry Skills Evaluation Certificate (Knowledge) (SEC(K) testing in source countries will cease for China and Thailand in January 2027, before being extended to all source countries in January 2028. Firms will soon be able to bring in new construction work permit holders (WPHs) directly and obtain the SEC(K) locally.

“Given the strong construction demand in the coming years, it is important that we find ways to facilitate a smoother and more expedient inflow of skilled new construction workers, and to ensure better job-skills fit,” said Mr Chee.

From January 2028 onwards, to be eligible for work permit renewals, new construction WPHs must pass the SEC(K) in Singapore within one year from work permit issuance. Firms will be required to reserve a test slot before the workers enter Singapore.

For new construction WPHs brought in without SEC(K), firms will pay the prevailing R2 (basic-skilled) levy rate for the first six months. These WPHs must pass the SEC(K) conducted in Singapore within this period to maintain the levy rate. Otherwise, the firms will be liable for a higher levy rate after the six-month grace period.

This enhancement will significantly reduce hiring timelines from the current four months to about one month, while maintaining the quality of new workers. It will also provide greater flexibility for firms to conduct on-the-job training that best meets their projects’ needs. At the same time, BCA will adjust testing capacity in Singapore to ensure that new construction WPHs can obtain the SEC(K) locally and in a timely manner.

To recruit new construction WPHs with skills comparable to SEC(K) standards, firms can tap on alternative entry pathways (AEP):

- Firms can bring in new construction WPHs who possess vocational certifications recognised by BCA. As their skills have been proven to be on par with existing standards, these workers will not be required to obtain SEC(K) overseas or locally.
- Firms seeking to source new workers beyond BCA-recognised vocational certifications can also apply to BCA to pilot their own pathways under AEP, by demonstrating how they intend to select and train better-quality construction WPHs in specific trades.

According to BCA, all new construction workers are still required to pass the ‘Apply Workplace Safety and Health (WSH)

in Construction Sites’ course before work permits can be issued. The Ministry of Manpower (MOM) and BCA are reviewing the need for additional safeguards to ensure that WSH standards continue to be upheld under the new arrangement.

Further information, including registration for local testing, will be shared in due course to prepare firms for the upcoming changes.

### Annual public agency ratings by consultants

In May 2026, BCA will launch a new annual rating survey for consultants working on public sector projects to provide feedback on public sector agencies’ practices. Together with the prevailing Consultants Performance Appraisal System (CPAS) that allows public agencies to rate consultancy firms, the two-way feedback is expected to help both parties improve their respective practices and deliver better projects to benefit the public.

“The reciprocal feedback system is a positive step towards enhancing transparency and collaboration across public sector procurement,” said Er Chuck Kho, president of the Association of Consulting Engineers Singapore. “By enabling open, two-way dialogue, it empowers both agencies and consultants to drive continuous improvement and achieve greater project outcomes together.”

“We want to promote a more collaborative relationship,” stressed Mr Chee. “True collaboration has to include the openness and the willingness to listen to feedback, even though some of them may not be positive feedback, but they are constructive feedback to help us to improve.” ■

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# CALENDAR OF EVENTS

## // Events in Asia

### Trenchless Asia

**10 to 11 June 2026**

Queen Sirikit National Convention Centre  
Bangkok, Thailand  
Website: [www.trenchlessasia.com](http://www.trenchlessasia.com)

### Philconstruct Manila

**25 to 28 June 2026**

SMX Convention Centre Manila & SM Concert  
Ground  
Manila, The Philippines  
Website: <https://philconstructevents.com>

### MBAM OneBuild & OneWare

**5 to 7 Aug 2026**

Kuala Lumpur Convention Centre  
Kuala Lumpur, Malaysia  
Website: [www.mbamonebuild.com.my](http://www.mbamonebuild.com.my) /  
[www.oneware.com.my](http://www.oneware.com.my)

### BEX Asia & IBEW

**2 to 4 Sept 2026**

Sands Expo and Convention Centre  
Singapore  
Website: [www.bex-asia.com](http://www.bex-asia.com) / [www.ibew.sg](http://www.ibew.sg)

### OS+H Asia

**9 to 11 Sept 2026**

Sands Expo and Convention Centre  
Singapore  
Website: [www.osha-singapore.com](http://www.osha-singapore.com)

### Construction Indonesia

**9 to 12 Sept 2026**

Jakarta International Expo  
Jakarta, Indonesia  
Website: [www.constructionindo.com](http://www.constructionindo.com)

### BCT Expo

**16 to 18 Sept 2026**

Impact Exhibition and Convention Centre  
Bangkok, Thailand  
Website: [www.bct-construction.com](http://www.bct-construction.com)

### CBA Expo & Concrete Expo Asia

**23 to 25 Sept 2026**

Bangkok International Trade and Exhibition  
Centre  
Bangkok, Thailand  
Website: [www.cba-expo.com](http://www.cba-expo.com) /  
[www.concrete-expoasia.com](http://www.concrete-expoasia.com)

### Bauma Conexpo India

**15 to 18 Sept 2026**

India Expo Centre  
Greater Noida, India  
Website: [www.bcindia.com](http://www.bcindia.com)

### K-Consafety Expo

**14 to 16 Oct 2026**

Korea International Exhibition Centre (Kintex)  
Goyang, South Korea  
Website: [www.k-consafetyexpo.com](http://www.k-consafetyexpo.com)

### International Construction Week & BuildXpo Malaysia

**10 to 12 Nov 2026**

Malaysia International Trade & Exhibition  
Centre  
Kuala Lumpur, Malaysia  
Website: <https://icw.my>

### Health & Safety Event Asia

**10 to 12 Nov 2026**

Sands Expo and Convention Centre  
Singapore  
Website: [www.safetysecurityasia.com](http://www.safetysecurityasia.com)

### Bauma China

**24 to 27 Nov 2026**

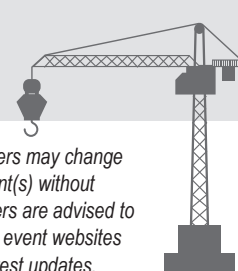
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## // Events outside Asia

### World of Concrete

**19 to 21 Jan 2027**

Las Vegas Convention Centre  
Las Vegas, USA  
Website: [www.worldofconcrete.com](http://www.worldofconcrete.com)



**Note:** The organisers may change or cancel their event(s) without prior notice. Readers are advised to visit the respective event websites regularly for the latest updates.

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# K-Consafety Expo 2026 to showcase AI-driven transformation and hyper safety in construction

This year's Korea Construction & Safety Expo (K-Consafety Expo 2026) is themed 'Industrial & Construction AX Transformation and the Hyper Safety Platform', reflecting one of the most critical industrial trends: AI transformation (AX).

"This theme signifies a paradigm shift beyond simple digitalisation, towards an era of hyper safety, where artificial intelligence proactively predicts risks and prevents accidents before they occur," said Kintex, the event's organiser.

Focusing on smart construction and safety technologies, the event will take place from 14 to 16 October 2026 at the Korea International Exhibition Centre (Kintex) in Goyang, South Korea.

## The rise of physical AI

The construction industry is rapidly embracing physical AI, where generative AI converges with robotics to transform on-site operations. At the K-Consafety Expo 2026, a wide range of field-applied AI solutions will be showcased, including:

- Autonomous logistics and task robots
- Wearable robots designed to prevent worker injuries
- Quadruped inspection robots and drone-based safety inspection systems

These technologies are gaining attention as essential tools that replace high-risk tasks while simultaneously enhancing productivity and safety.

In particular, the Advanced Safety Pavilion will present key technologies from government-led smart construction pilot projects, such as positioning systems for non-line-of-sight environments, integrated AI monitoring platforms, and real-time accident prediction AI agents.

## K-Safety Week

The K-Consafety Expo 2026 will be co-located with the Urban Safety Technology Expo 2026, which focuses on public safety technologies such as climate crisis response solutions, smart city integrated control systems, and ageing infrastructure maintenance technologies.

Together, the two events will form K-Safety Week, positioning itself as Korea's largest integrated safety industry platform – covering everything from private construction sites to urban infrastructure and public safety.

A variety of business programme will also be organised to facilitate market expansion and real contract opportunities, including:

- Construction Safety Leaders Forum (CSOC) with safety executives from major contractors
- Guided docent tours for public procurement officials
- Export consultation meetings with overseas buyers invited by KOTRA (Korea Trade-Investment Promotion Agency)
- Purchase consultation sessions with verified industry buyers
- The third K-Consafety Awards recognising innovation in safety

In 2025, K-Consafety Expo achieved approximately KRW 60 billion (about US\$ 45 million) in business consultation outcomes. For 2026, further growth is expected, particularly driven by AX-based safety solutions. ■

Website: [www.k-consafetyexpo.com](http://www.k-consafetyexpo.com)



ALL IMAGES: Korea Construction & Safety Expo (K-Consafety Expo) 2026 will take place from 14 to 16 October under the theme 'Industrial & Construction AX Transformation and the Hyper Safety Platform'.

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# Conexpo 2026 draws visitors from 128 countries

Conexpo-Con/Agg 2026 attracted more than 140,000 visitors from 128 countries. Held on 3-7 March, the show brought together contractors, manufacturers, technology leaders and workforce advocates to showcase new equipment, emerging technologies and solutions designed to help the construction sector build more efficiently, safely and sustainably while maintaining strong industry momentum.

Spanning more than 3 mil sq ft of exhibit space, Conexpo-Con/Agg 2026 featured over 2,000 exhibitors with a wide range of equipment, technologies and services across every major construction sector – from massive earthmoving machines, towering cranes and next generation paving equipment to digital jobsite solutions, automation, sustainability and advancements

## Innovations defining the next jobsite

Across the show floor, manufacturers unveiled technologies and equipment that define the next generation of construction jobsites. Komatsu highlighted advancements in intelligent machine control and automation, including its PC220LCi-12 intelligent excavator, which uses integrated sensors and 3D design data to help operators excavate to grade with greater precision and reduce rework. The company additionally introduced the all-new HM460-6 articulated truck, the largest in its lineup.

LiuGong displayed a range of advanced machines, including the 870 HE loader, 952F excavator and 924 FE electric excavator, underscoring the industry's growing investment in electrification and lower-emissions equipment.

Technology innovators also presented various digital solutions that are transforming construction workflows. Samsara showcased connected operations technology that enables contractors to monitor equipment utilisation, safety and fleet performance across jobsites. Doka demonstrated advanced formwork and digital jobsite solutions aimed to improve efficiency and safety on complex infrastructure and building projects.

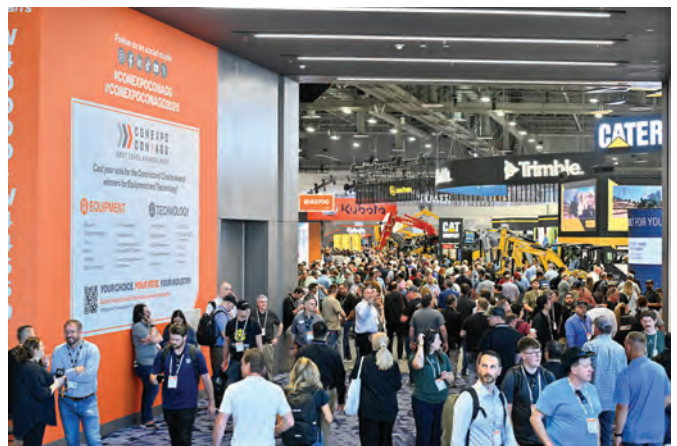
Moreover, compact equipment leader Bobcat showcased innovations focused on the future of compact construction, highlighting advances in AI, electrification, autonomy and connectivity, including its Bobcat Jobsite Companion – an AI-enabled system designed to help operators work more efficiently with real-time machine insights and jobsite guidance.

The Next Level Awards further recognised breakthrough technologies transforming how construction projects are built and managed. This programme spotlights equipment and technology innovations that improve productivity, sustainability and jobsite safety, reinforcing Conexpo-Con/Agg's role as the global stage where the construction industry unveils ideas and machines shaping its future.

## Ground Breakers Stage

The Ground Breakers Stage served as a hub for forward-looking conversations, drawing strong attendance for sessions on artificial intelligence, workforce development, infrastructure investment, sustainability and the evolving role of data across construction operations.

Industry leaders and technology experts explored how digital transformation, manufacturing advancements and collaborative partnerships are reshaping the sector and helping companies navigate changing market dynamics.



TOP AND ABOVE: Spanning more than 3 mil sq ft of exhibit space, Conexpo-Con/Agg 2026 featured over 2,000 exhibitors with a wide range of equipment, technologies and services across every major construction sector.

## A global gathering

Conexpo-Con/Agg 2026 reinforced construction's role as a driver of economic development, supporting infrastructure modernisation, energy expansion, manufacturing growth and resilient communities. The show created opportunities for contractors and manufacturers to connect directly, exchange ideas and accelerate adoption of technologies that improve project outcomes.

In addition to exhibits, attendees participated in 150 comprehensive education sessions, live demonstrations and peer-to-peer discussions designed to deliver actionable insights for businesses of every size.

Classroom education is a cornerstone of the Conexpo-Con/Agg experience, providing an all-encompassing lineup of panels, workshops and keynote conversations that keep attendees stay ahead of a rapidly evolving construction landscape.

New weekend workshops for 2026 brought together hundreds of women in construction, small business owners and maintenance professionals for peer-driven learning at the show. The expanded lineup helps industry professionals connect with others who understand their daily challenges and opportunities.

Taking place every three years, Conexpo-Con/Agg will return from 13 to 17 March 2029 at the Las Vegas Convention Centre. ■

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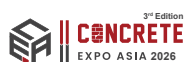
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# World's largest construction startup competition opens for entries; Singapore to host first APAC Pitch Day

Singapore will host the inaugural Asia Pacific (APAC) Pitch Day for the 10th edition of the Construction Startup Competition (CSC) in 2026, announced the Building and Construction Authority (BCA), one of the event's organising partners.

The debut of CSC in Singapore marks a significant milestone, cementing the country's position as a premier regional hub for construction technology (Contech). This event will facilitate greater exchange of innovative global solutions with local and regional built environment (BE) firms, while providing Singapore's startups with the chance to engage with the world's leading venture capital and construction firms.

"Acute needs in the global BE sector – spanning the demand for greater sophistication in design to the need for greater efficiency and productivity – have driven momentum for BE firms to search for innovative technologies and solutions. This growing demand has fuelled significant investment growth, with global Contech investment doubling from 2024 to reach US\$6.57 billion in 2025, the highest level of capital allocation to date," explained BCA.

"The APAC region is also fast becoming a key engine of this global Contech flywheel, accounting for almost 20% of global Contech investment in 2025," the authority added, citing a report by Cemex Ventures. "By hosting the CSC APAC Pitch Day, Singapore is strategically positioning itself at the nexus of this ecosystem, bridging the gap between global capital and regional innovation."

In addition to BCA, the other organising partners are Cemex Ventures, Caterpillar, Dysruptek by Haskell, Hilti Venture, Vinci Group's Leonard, Nova by Saint-Gobain, Trimble, Zacia Ventures and Ferrovial.

## APAC Pitch Day

The APAC Pitch Day welcomes submissions from applicants across the Asia Pacific region from **4 May to 28 June 2026**. Five finalists will be invited to present their solutions at the event, which will take place during the International Built Environment Week (IBEW) 2026's Contech Summit on 2 September in Singapore.

These finalists will join the top 50 global entries, participating in either the US Pitch Day (in Las Vegas) or the European Pitch Day (in Helsinki). Winners will receive cash prizes, access to one of the most influential networks in the industry, and a place among the top 30 global entries in the CSC.

The event seeks to attract promising startups from across the region, giving local and regional BE firms a direct pipeline to identify and evaluate technologies that are ready to be piloted or adopted, while also introducing CSC's global network of partners and investors to Singapore's innovation and technology (I&T) ecosystem.

For Singapore's startups, the APAC Pitch Day on home ground is a chance to compete and be recognised on the world stage, as well as secure networking and investment opportunities to scale and establish their solutions globally.

This year's edition covers five categories, aligned with the sector's evolving priorities:

- **Preconstruction Tech:** Technologies that use data, analytics and digital planning to improve decision-making before construction begins.
- **Jobsite Productivity & Building Systems:** Solutions that optimise



Image: Artem Labunsky/Unsplash

on-site execution by improving labour, equipment and building system performance.

- **ClimaTech for the Built World:** Technologies that reduce carbon emissions, improve energy efficiency and enable sustainability across buildings and construction.
- **Smart Manufacturing & Logistics:** Digital and automated solutions that enhance production efficiency, supply chain coordination and material flows.
- **Smart Buildings and Infrastructure:** Connected systems that use data, sensors and automation to operate buildings and infrastructure more efficiently, safely and intelligently.

With these categories, the competition aims to spotlight the technologies driving higher efficiency, resilience, sustainability and performance across the construction value chain.

## Global platform

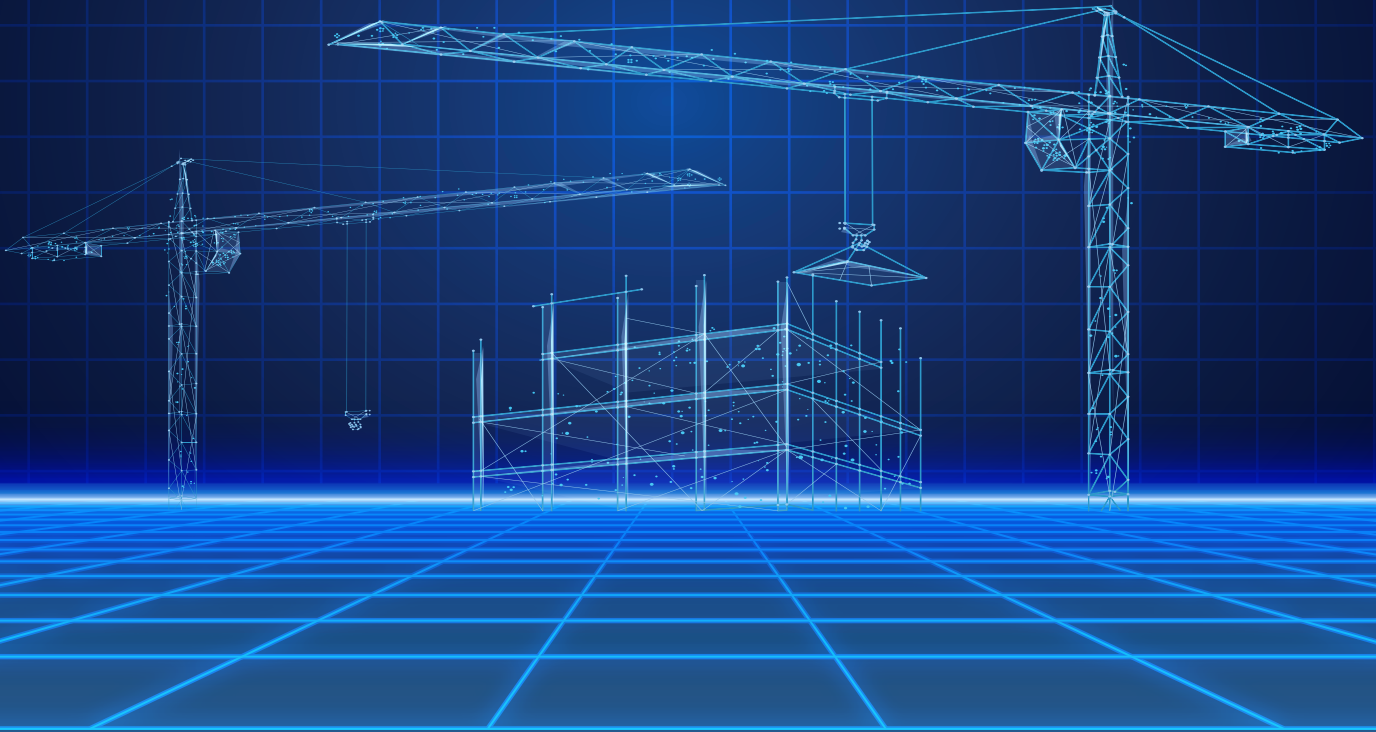
The CSC has become the leading global platform for disruptive construction technology since its inception in 2017. Through its past nine editions, the event has empowered over 4,100 startups from more than 80 countries, offering them wider industry recognition, opportunities to pilot their solutions in real projects, funding from global venture capitalists, and strategic partnerships with BE industry leaders.

As of 2025, 44 finalist startups, including Singapore's Ailytics, have advanced to the US and European Pitch Days, collectively securing over US\$448 million in investment. Ailytics was also named a finalist winner at the CSC European Pitch Day 2025, a testament to the global competitiveness of Singapore's homegrown innovation.

"Singapore's Contech ecosystem has crossed a new growth threshold, positioning us to lead the next wave of innovation and technology development. BCA is proud to welcome the inaugural APAC edition of the CSC to Singapore – a move that establishes the country as a gateway for introducing Contech innovation from the US and European markets to the rest of APAC," said Heng Teck Thai, deputy CEO at BCA. "Our CSC partners will benefit by unlocking connections within the APAC region, whilst giving our local solution providers access to these international markets. Having greater exposure to the best cutting-edge solutions globally will help to accelerate Singapore's BE transformation through innovation and technology." ■

Website: <https://constructionstartupcompetition.tech>

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# IPAF and T-OSH partner to advance MEWP safety standards in Thailand

The International Powered Access Federation (IPAF) has announced a strategic collaboration with the Thailand Institute of Occupational Safety and Health (T-OSH) to advance safety standards for mobile elevating work platforms (MEWPs) across Thailand.

A core component of this collaboration focuses on making safety resources more accessible to the local workforce. With the expert assistance of T-OSH, IPAF has successfully translated 10 of its 'Andy Access' safety posters into the Thai language.

These posters, featuring the popular Andy Access character, provide clear, concise and engaging safety tips for MEWP operators and supervisors. By removing language barriers, both organisations aim to reduce onsite incidents and foster a deeper culture of safety.



ABOVE: Raymond Wat, IPAF SEA regional manager, is pictured here at the centre.



RIGHT: IPAF has translated 10 of its 'Andy Access' safety posters into the Thai language.

"Safety is a universal priority, but its implementation must be local. By partnering with T-OSH to provide these resources in Thai, we are ensuring that vital safety information reaches the operators

who need it most," said Raymond Wat, IPAF Southeast Asia regional manager.

The Thai versions of the Andy Access posters are available for download via the IPAF website ([www.ipaf.org](http://www.ipaf.org)). ■

## IPAF launches new MEWP battery guidance

The International Powered Access Federation (IPAF) has released a new guidance pack focused on the safe use and maintenance of batteries fitted to mobile elevating work platforms (MEWPs).

IPAF's new guidance includes a technical guidance document, three Toolbox Talks and two Andy Access safety posters. Together, it supports owners, rental companies, operators and maintenance providers in managing batteries safely and effectively throughout their service life.

As battery-powered MEWPs continue to grow in popularity globally, driven by evolving jobsite requirements, environmental regulations and advances in battery technology, the need for clear, practical guidance has never been greater.

Brian Parker, head of safety and technical at IPAF, said, "The rapid adoption of battery-powered MEWPs brings clear benefits in terms of emissions reduction, noise control and operational efficiency, but it also introduces new responsibilities. While modern batteries are increasingly robust, a battery's performance and safety are directly linked to how well it is maintained, which is an ongoing challenge in rental and high-utilisation environments.



"This guidance is designed to help the industry understand battery-related risks and implement best practices that support safe, reliable and sustainable operations throughout the equipment lifecycle."

It is estimated that more than 2.2 million MEWPs are currently in service worldwide, powered by a range of energy sources including internal combustion, hydrogen, bi-energy, bi-fuel and battery-electric systems. The demand for battery-powered MEWPs continues to rise due to factors such as increased indoor construction and maintenance work, stricter emissions and noise requirements, corporate sustainability commitments, and

improved machine performance made possible by modern battery and charging technology.

### Guidance scope and key objectives

The new IPAF guidance has been developed to outline best practice for the safe use, charging, storage, inspection, maintenance and disposal of the various battery types fitted to MEWPs, including flooded lead-acid (FLA), AGM, gel and lithium-ion (Li-ion) batteries.

The guidance aims to:

- Provide information on the safe use and maintenance of batteries fitted to MEWPs.
- Support those who plan and manage MEWP operations.
- Increase awareness of battery-related hazards, risks and safe use practices.
- Identify risk control measures and Safe Systems of Work (SSoW) to help reduce incidents involving MEWP batteries.

The document includes specific technical information, references and sample checklists to support real-world application. It is available to IPAF members and the wider powered access industry through the IPAF website ([www.ipaf.org](http://www.ipaf.org)). ■



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# OSHC Hong Kong becomes IPAF-approved training centre to meet 2026 safety standards

The Occupational Safety and Health Council (OSHC) Hong Kong and the International Powered Access Federation (IPAF) have announced a significant evolution in their long-standing partnership. Building on a collaboration that began in September 2024, OSHC has officially transitioned into an IPAF-approved training centre.

This strategic move ensures that OSHC is fully equipped to deliver IPAF’s internationally recognised MEWP Operator Training Course - ISO 18878, while aligning with the ‘Guidance Notes on Safe Use of Mobile Elevating Work Platforms’ updated by the Hong Kong Labour Department in February 2026.

Since 2024, OSHC and IPAF have worked closely to deliver mobile elevating work platform (MEWP) operator and supervisor training. By upgrading to an approved training centre, OSHC now offers a localised hub for ISO-certified programmes that not only meet the Labour Department’s latest mandates, but also exceed them in technical rigour and global recognition.

As an IPAF-approved training centre, OSHC can provide enhanced value for the Hong Kong workforce:

- International training standards: IPAF’s MEWP Operator Training Course is developed in accordance with ISO 18878, the global standard for MEWP operator training.
- Globally recognised licence: The IPAF Powered Access Licence (PAL) Card is internationally recognised as a benchmark of high-quality MEWP operator competence.
- 24/7 online verification: Site and safety managers can verify PAL Card authenticity anytime, so that all operator licences are valid, genuine and up to date.

To assist industry stakeholders in navigating the February 2026 regulatory updates, IPAF has released a specialised document titled ‘Mobile Elevating Work Platform (MEWP) Operator Training Course Requirements in Hong Kong’.

Recognising the diverse needs of the local industry, this essential resource is available in both English and Traditional Chinese. It provides a comprehensive breakdown of the Labour Department’s requirements and illustrates how the IPAF curriculum fulfils and supersedes these benchmarks, ensuring that Hong Kong operators receive world-class safety education. ■



TOP: Alice Lam, principal consultant at OSHC (left), and Raymond Wat, IPAF SEA regional manager.

ABOVE AND LEFT: OSHC conducted its first IPAF Operator Training Course, compliant with ISO 18878, on 30 March 2026.

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The Liebherr LBX 600 carrier machine, equipped with the HSG 5-18 hydraulic grab, recently helped Tung Feng construct slurry walls in New Taipei City.

# Urban challenge in New Taipei

## *Tung Feng builds slurry walls on a confined jobsite*

**T**ung Feng recently completed slurry wall construction in New Taipei City, Taiwan. The project was highly challenging due to the confined site conditions. For this, the contractor relied on Liebherr machines, as they are compact yet deliver strong performance and precision. These included an LBX 600 carrier machine with an HSG 5-18 hydraulic grab and an HS 8130.1 duty cycle crawler crane with an LSC 8-18 cutter.

### **Tight space**

First, Tung Feng excavated loose soil with the LBX 600 carrier machine, which was specially designed for urban jobsites. The unit was equipped with the HSG 5-18 hydraulic slurry wall grab.

**RIGHT: The LBX 600's compact and modular design is well suited to restricted jobsites.**



Tung Feng also deployed the HS 8130.1 duty cycle crawler crane with the LSC 8-18 slurry wall cutter on the project.



ABOVE AND BELOW: The standard version of the LBX 600 carrier machine features a total height of 17.8 m. For operations with limited headroom, work can be carried out in low-head configuration at 11 m or ultra-low-head configuration at 5.8 m.



When the grab reached the deeper layers of rock and sandstone with higher compressive strength, Tung Feng switched from the compact LBX 600 to the HS 8130.1 duty cycle crawler crane with the LSC 8-18 slurry wall cutter. This allowed the hard soil layers to be penetrated efficiently without the need for laborious pre-drilling. As such, it reduced the time required, increased productivity and enabled clean material removal in the restricted space.

Using the Liebherr cutter, Tung Feng advanced at an average of 4 m per hour. The finished slurry walls reached down to depths of 30 to 55 m and were between 800 and 1,500 mm thick. Additionally, individual barrette piles were inserted for foundations within the construction field.

### Modular design

The LBX 600 and the HS 8130.1 are a good combination for both the application and the operator since they are controlled using the same cabin concept, with the same joysticks and monitors. This means it is easy to switch between the machines and work productively. The LBX 600 carrier machine, the HSG 5-18 hydraulic grab and the LSC 8-18 cutter all have a modular design, making them particularly flexible in densely built areas.

Three different booms can be fitted to the LBX 600 to meet jobsite requirements. The standard machine features a total height of 17.8 m. For operations with limited headroom, such as under bridges, work can be carried out in low-head configuration at 11 m or ultra-low-head configuration at 5.8 m.

The hydraulic grab comprises a robust main body and can be extended by a module when required. Thanks to the higher weight and low centre of gravity, an even better level of verticality can be achieved, which is advantageous for larger slurry walls. Liebherr has applied the same concept to the slurry wall cutter.

Tung Feng used the standard version of the LBX 600, the short version of the grab, and the long version of the cutter. After about 10 months, the slurry wall works were completed in January 2026.

“The performance of the cutter met and even exceeded our expectations. Our drivers report easy control and simple handling. The machines are reliable, efficient and very precise – and all that in the narrowest of spaces. Also, Liebherr’s fast service response strengthens reliability and makes operation easier,” said Ke-Chiang Wu, project manager at Tung Feng. ■

Website: [www.liebherr.com](http://www.liebherr.com)



Using the LSC 8-18 slurry wall cutter, Tung Feng was able to advance at an average of 4 m per hour. The finished slurry walls reached down to depths of 30 to 55 m and were between 800 and 1,500 mm thick.



The Fanling Bypass (Eastern Section) serves as a primary distributor linking the Fanling North New Development Area to Fanling Highway.

Image: CEDD

# First major transport infrastructure milestone for Hong Kong's Northern Metropolis



Following its opening ceremony on 2 May (pictured), the Fanling Bypass (Eastern Section) was officially commissioned on 3 May 2026.

**A** ECOM has played a significant role in the development of the Fanling Bypass (Eastern Section), the first major transport infrastructure in Hong Kong's Northern Metropolis (NM). The project was officially commissioned on 3 May 2026, following the opening ceremony on 2 May.

The approximately 4-km, dual two-lane carriageway serves as a primary distributor linking the Fanling North New Development Area to Fanling Highway. The bypass is expected to ease congestion in Fanling town centre, strengthen regional connectivity across the NM, and support a planned population of around 95,100 residents in the Fanling North New Development Area. Travel times during peak hours are reduced by up to 10 minutes.



The project features the world's first structural application of ultra-high-strength S960 steel in footbridges, reducing carbon emissions by approximately 2,400 t of CO<sub>2</sub>.

## Engineering achievements

The project showcases several engineering innovations, including:

- Hong Kong's first horizontal bridge rotation, used to position a 140-m-long, 7,000-t bridge over the East Rail Line in a single overnight operation, which shortened the construction period by around 12 months.
- The world's first structural application of ultra-high-strength S960 steel in footbridges, reducing carbon emissions by approximately 2,400 t of CO<sub>2</sub>.

AECOM delivered multidisciplinary consultancy services for the first phase and remaining phase development of the Kwu Tung North and Fanling North New Development Areas. The team applied advanced digital and construction technologies – such as 4D BIM, LiDAR and AI-assisted monitoring – alongside prefabrication methods supported by robotic welding and 3D swept path analysis to improve safety, quality and delivery speed.

One of the project's most complex challenges was constructing a vehicular bridge across the active East Rail Line while navigating extensive facilities, including large-diameter water mains, high-voltage underground power cables and an existing footbridge. To overcome this, the team implemented an innovative horizontal rotation technique – a first for Hong Kong – constructing the bridge adjacent to the alignment before rotating it into position overnight. This method minimised disruption to rail operations and enhanced overall safety.

Innovation also extended to the development of two new footbridges, including Footbridge F6 at Lung Yek Tau Interchange – the first structural application of ultra-high-strength S960 steel.

Drawing on experience from the project, AECOM contributed to a series of technical guidelines – namely the 'Practice Notes on Horizontal Bridge Rotation Method for Viaduct Construction Across Existing Railway Lines', 'Technical Guidance on the Structural Design of Plate Girder Structures using Ultra-High-Strength S960 Steel' and 'Technical Guidelines for Robotic Welding Operations of



AECOM management team attended the opening ceremony of the S960 footbridge at Lung Yek Tau Interchange in April.

Structural Steel in Construction' – published by the Civil Engineering and Development Department (CEDD). These guidelines are setting new benchmarks to advance safe, efficient and innovative construction practices across Hong Kong and beyond.

The Fanling Bypass (Eastern Section) highlights how innovation and cross-sector collaboration can accelerate the safe and sustainable delivery of complex infrastructure, supporting the long-term development of Hong Kong's Northern Metropolis.

"This milestone demonstrates the power of collaboration across government, industry, academia and research," said Dr Johnny Cheuk, AECOM's Hong Kong executive leader. "We are proud to contribute to a project that reflects Hong Kong's Construction 2.0 vision while supporting the nation's 15th Five-Year Plan – bringing advanced engineering solutions and high-quality 'Made in China' materials to both Hong Kong and the global stage." ■



# Manitou officially opens Indonesia subsidiary

**M**anitou Group has officially inaugurated its new subsidiary in Indonesia. In line with its LIFT roadmap, the new company – PT Manitu Indonesia Perkasa – aims to provide an improved customer experience across Indonesia, which falls within the group’s LAPAM (Latin America, Asia Pacific, Africa, Middle East) region.

The LIFT roadmap, unveiled last year, outlines Manitu’s strategic plan for the 2026-2030 period and is built around the following pillars:

- Leading on material handling and people elevation markets.
- Innovating with sustainability and customer-driven mindset.
- Focusing on customer experience.
- Transforming ourselves for tomorrow.

Indonesia is currently one of the most dynamic economies in Southeast Asia and the largest in the region. “Its annual GDP growth reached 5% in 2025, with forecasts also projecting 5% for 2026. Driven by massive infrastructure development – with the Indonesian government planning



TOP AND ABOVE: PT Manitu Indonesia Perkasa focuses its activities on high-potential segments: rough-terrain and industrial forklifts, telehandlers, and aerial work platforms for the rental market. The company will work closely with its local partners.

to invest US\$617 billion between 2025 and 2029 – and a booming industrial sector, demand for handling and lifting equipment is growing steadily,” explained Manitu, highlighting the importance of the market.

“The construction equipment rental sector is expected to reach US\$795 million by 2029, representing an average annual growth rate of nearly 9%. More specifically, the Indonesian forklift rental sector is projected to grow from US\$108 million



ABOVE: Manitou's VP APAC, Bernd Freudenmann, said the launch of the new Indonesian subsidiary strengthens the company's presence in Southeast Asia.

LEFT: Ribbon-cutting to mark the official opening of PT Manitou Indonesia Perkasa.



in 2025 to US\$162 million in 2031. This rapidly expanding rental market represents a strategic opportunity for Manitou Group and its rental customers."

PT Manitou Indonesia Perkasa focuses its activities on high-potential segments: rough-terrain and industrial forklifts, telehandlers, and aerial work platforms for the rental market (rent-to-rent). Local dealers of Manitou and Gehl already handle nationwide distribution and service support for these products, as well as earthmoving equipment such as backhoe loaders and skid steer loaders.

Earlier in January, Manitou announced the establishment of its new subsidiary. The entity was created to expand the group's equipment rental business across Indonesia and to better support its local dealers: PT Indo Traktor Utama for the Manitou brand and PT United Equipment Indonesia (Uniquip) for the Gehl brand.

"Our new Indonesian subsidiary reinforces our presence in Southeast Asia



ABOVE AND INSET: Guests gathered for the opening ceremony of PT Manitou Indonesia Perkasa, which took place on 8 May 2026.

within a high-potential market," said Bernd Freudenmann, vice president APAC at Manitou Group. "This new location aligns perfectly with our new LIFT roadmap, with a commitment to being as close as

possible to the needs of our dealers and rental customers."

The new subsidiary is registered in Jakarta, with its stockyard and workshop based in Bekasi, near Jakarta. ■



A Manitou forklift (left) and a Gehl telehandler (above) were showcased at the opening ceremony.



# Paving the way to Thailand

## Construction of new concrete roads using slipform paving technology

The Wirtgen SP 64 slipform paver has recently been deployed for new concrete road construction in Surat Thani and Tha Sala, Thailand. As no fixed moulds were required, the amount of manual labour on these projects was significantly reduced.

In Surat Thani province, contractor Premium Concrete used the SP 64 paver to help build a 22.3-km-long road with two 3.5-m lanes and one 4-m lane. This new section, which has an overall width of 11 m and a concrete surface thickness of 32 cm, is a part of the important AH2 trunk route to Maluan.

“With the Wirtgen slipform paver, we achieve a high working speed and can simultaneously ensure high surface quality,” said Sirichot Phetthong, project engineer at Premium Concrete.



TOP AND ABOVE: Premium Concrete deploys a Wirtgen SP 64 slipform paver for the construction of a 22.3-km-long road in Surat Thani.



**ABOVE AND BELOW:** The new road section in Surat Thani has an overall width of 11 m, with two 3.5-m lanes and one 4-m lane. The SP 64 slipform paver enables an extremely even, high-quality concrete surface.





In another project, the SP 64 paver was used by contractor CC Machinery & Construction to help upgrade a 17-km stretch between Tha Sala and Nopphitam, on the section from Thai Bun to Nopphitam. The road is 14 m wide overall, featuring four 3.5-m lanes. The concrete surface thickness is 25 cm on the right and 28 cm on the left.

As traffic in Thailand drives on the left, the left-hand lane is predominantly used by heavy vehicles. In view of this, it has been paved 3 cm thicker than the right-hand lane to withstand the additional stresses.

“We decided to use the slipform paver because Wirtgen offers outstanding customer care, comprehensive service and training courses. These are particularly important criteria for us,” said Thawat Arunsuwannakon, managing director of CC Machinery & Construction.

When applying the inset slipform paving method, the concrete is placed directly in front of the machine and distributed by a spreading auger or spreading plow. The wet concrete is homogeneously consolidated by vibrators, while the slipform mould defines the form and dimensions. The integrated dowel bar and tie bar inserter places the reinforcement exactly as required. The oscillating beam levels out smaller irregularities before the super smoother delivers the surface finish.

Both projects have demonstrated the strong performance of slipform pavers in modern road construction. High paving speeds, excellent surface evenness and long-lasting roads ensure greater cost-effectiveness. ■

Website: [www.wirtgen-group.com](http://www.wirtgen-group.com)



TOP, MIDDLE AND ABOVE: The Wirtgen SP 64 slipform paver also helps CC Machinery & Construction upgrade a 17-km road section in Tha Sala.



**ABOVE AND BELOW:** The upgraded road in Tha Sala is 14 m wide overall, with four 3.5-m lanes. It features a concrete surface thickness of 25 cm on the right and 28 cm on the left.





# **Singapore's *Built Environment Decarbonisation Technology Roadmap* adopts *whole-life carbon strategy***

**T**he Building and Construction Authority (BCA) and the Singapore Green Building Council (SGBC), with support from the Agency for Science, Technology and Research (A\*STAR), have jointly developed the Built Environment Decarbonisation Technology Roadmap. Launched in February at the Urban Solutions and Sustainability (USS) Research & Innovation Congress 2026, this roadmap adopts a 'whole-life carbon' approach, addressing both operational and embodied carbon emissions.

The roadmap will guide research and innovation efforts towards achieving the Singapore Green Building Masterplan's (SGBMP)'s '80-80-80' targets by 2030 and work towards the country's longer-term target for net-zero emissions by 2050. Singapore is also committed to reducing its greenhouse gas emissions to about 45 to 50 million tonnes of CO<sub>2</sub> equivalent (MtCO<sub>2</sub>e) by

2035, from the projected 60 MtCO<sub>2</sub>e in 2030.

Close to 70 key technologies and strategies are outlined in the roadmap. Market-ready solutions such as alternative cooling and ventilation technologies, AI-controlled energy optimisation systems, and low-carbon construction practices will help developers and building owners decarbonise their building portfolios, while identified emerging technology priorities will support Singapore's Research, Innovation and Enterprise (RIE) 2030 plan.

Since January 2025, BCA and SGBC have engaged about 100 built environment (BE) stakeholders – including building owners, consultants, Institutes of Higher Learning (IHLs), material suppliers and technology solution providers – to co-create this latest roadmap, which replaces the 2018 Super Low Energy Building Technology Roadmap.

In the new roadmap, BCA and SGBC state that “due to our early emphasis on energy efficiency measures since 2005 via the Green Mark scheme and the Singapore Green Building Masterplans, operational carbon is expected to decline with increasing energy efficiency and the adoption of renewable energy.

“As operational carbon is reduced, embodied carbon will grow in importance as a proportion of total emissions. Upfront carbon, which refers to carbon emissions during materials production and construction phases of the life cycle before the building or infrastructure begins operating, has the potential to account for up to half of the entire carbon footprint of new construction between now and 2050. Hence, it is important for us to pay more attention to embodied carbon.”

### Empowering BE firms

Tan Chee Kiat, deputy CEO for industry development at BCA, shared several initiatives to help businesses reduce their whole-life carbon emissions by leveraging potential synergies and accelerating cross-value-chain collaboration.

“These include developing an industry tool for carbon calculation, initiatives under Green Mark and GreenGov.SG, as well as grants to support energy efficiency in construction and the pursuit of research and innovation (R&I) in these areas,” said Mr Tan.

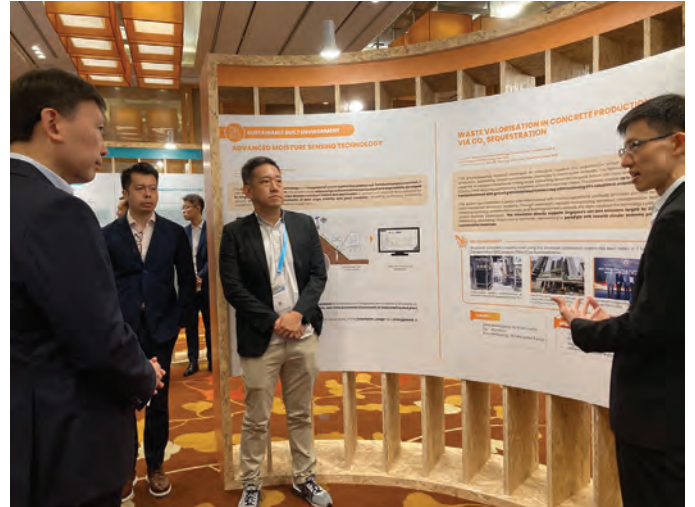
BCA had worked with JTC, NUS-ESI and SGBC to develop an industry tool for carbon calculation in buildings. This is available as open-source data for industry use on the SGBC website.

Under its Green Mark Scheme, BCA has also introduced the Whole Life Carbon section, which holistically evaluates projects on their carbon footprint throughout the building’s lifecycle. Firms demonstrating exceptional performance are eligible for the Whole Life Carbon badge.

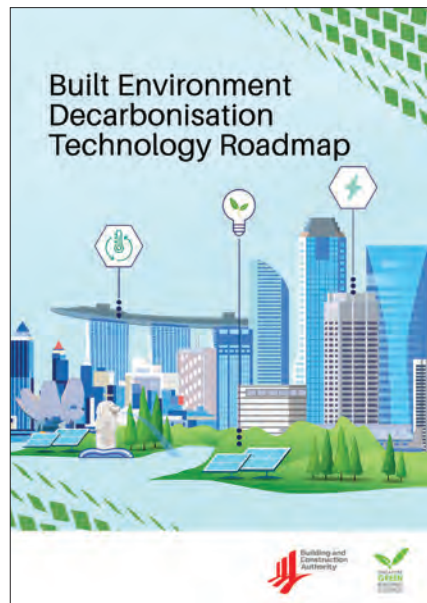
In addition, through the GreenGov.SG initiative, up to 5% of overall tender evaluation points has been set aside for Government Procurement Entities (GPEs) to incorporate sustainability considerations in large public construction tenders with estimated contract value above S\$50 million. This allows firms with demonstrated green construction practices to be recognised and awarded additional points as part of the tender evaluation process.

Meanwhile, the Energy Efficiency Grant (EEG) encourages the use of energy-efficient equipment during construction. The scheme provides two tiers of support: Base Tier (up to S\$30,000 per firm) based on the pre-approved list of equipment, and Advanced Tier (up to S\$350,000 per firm) for those seeking to make a greater impact in driving low-carbon construction.

Mr Tan further pointed out that BCA actively supports firms in pursuing industry-driven R&I through various RIE programmes, covering areas that include embodied carbon as well. One such



ABOVE: The development of sustainable concrete under the BETA Catalyst Funding programme, presented at the USS R&I Congress 2026, helps reduce embodied carbon emissions.



LEFT: Singapore’s newly launched Built Environment Decarbonisation Technology Roadmap now addresses both operational and embodied carbon emissions. Shown here is the cover of the report.

example is the development of an ultra-low-carbon concrete under the BETA Catalyst Funding programme, involving an alliance of stakeholders such as SIT, Woh Hup and ConcreteAI, which enables up to 80% cement replacement, resulting in a reduction of embodied carbon by up to 65%.

Now that the roadmap provides the industry with a clearer path towards a sustainable future, stakeholders can take more decisive action. BCA and SGBC highlighted that “technology plays a key role in the transition to encourage the switch to low-carbon alternatives and drive transformational change.” ■

**Download the full report: <https://go.gov.sg/decarbroadmap>**

Upfront carbon, which refers to carbon emissions during materials production and construction phases of the life cycle before the building or infrastructure begins operating, has the potential to account for up to half of the entire carbon footprint of new construction between now and 2050. Hence, it is important for us to pay more attention to embodied carbon. ”

# NEXT GENERATION 150 AND 160 MOTOR GRADERS FROM CATERPILLAR



The Next Generation Cat 150 motor grader.

Caterpillar has expanded its Next Generation motor grader lineup with the redesigned Cat 150 and 160 models, which feature smarter controls, greater efficiency and enhanced operator comfort.

### Smarter controls

The two models are now equipped with Caterpillar's easy-to-use joystick steering controls: optional on the Cat 150 and fitted as standard on the Cat 160.

"Hours of ergonomic research shows how joystick controls reduce hand and arm movements for the operator, when

compared to the usual lever and steering configuration," said Eric Kohout, Caterpillar senior product consultant for motor graders.

"Reducing operator fatigue is key to maintaining and improving productivity," he pointed out, "so transferring control into two three-axis joysticks completely redefines operator comfort."

The joysticks place transmission, gear shifting and machine-direction control on the left, while the right handles drawbar, circle and mouldboard functions as well as throttle control and manual differential lock and unlock.

Both the 150 and 160 provide exacting control through nine forward and six reverse gears, with a new finish gear that allows



Both models, the 150 (below) and 160 (above), are now equipped with smarter controls and a fully redesigned cab.





The Cat 150 and 160 motor graders come with 12-ft and 14-ft mouldboards, respectively. The easy-to-use joysticks place transmission, gear shifting and machine-direction control on the left, while the right handles drawbar, circle and mouldboard functions as well as throttle control and manual differential lock and unlock.

the operator to achieve precise grading results. Used for the final stage of the grading process, the finish gear ensures the ground is uniform and even, delivering the specified slope and elevation requirements for demanding construction projects.

The 150 model comes with a 12-ft mouldboard as standard, while the 160 features a 14-ft version; upgrades are available to 14 and 16 ft, respectively.

“The Next Generation platform is all about efficiency, productivity and operator comfort,” stressed Mr Kohout. “These new models achieve those objectives in many ways. From a practical perspective, the machines maintain the dimensions of those they replace with a C9.3 engine providing strong, consistent power to the ground.”

### Redesigned cab

Another highlight is the fully redesigned cab, first introduced on the upgraded 120 and 140 models. Larger windows maximise all-

round visibility, with particular focus on the mouldboard and tyres, while the ‘operator-first’ approach continues with improvements to HVAC and seat adjustment options.

Visibility can be further enhanced with optional integrated rear vision, front vision, 360-degree cameras and Caterpillar’s People Detection system, all feeding into the cab’s 10-in touchscreen. The same touchscreen also controls optional technologies, such as Cat Grade. Both models allow easy upgrades to attachments, ensuring they hit grade faster.

“Caterpillar motor graders have long been revered for their ‘grade any terrain’ capability and impressive jobsite productivity. The new platform serves only to make that offering more robust still,” said Mr Kohout.

The Cat 150 with joystick option will launch in European countries in the second half of 2026. A full launch for all configurations and regions will follow. ■

Website: [www.cat.com](http://www.cat.com)



ABOVE AND BELOW: The fully redesigned cab features larger windows for enhanced all-round visibility, with particular focus on the mouldboard and tyres, while the 'operator-first' approach continues with improvements to HVAC and seat adjustment options.



# ROCKSTER UNVEILS NEW R1100D CLOSED-LOOP IMPACT CRUSHER



**R**ockster has introduced its new R1100d closed-loop impact crusher, designed to provide high crushing performance and flexibility for both recycling applications and aggregate production. This new model is available to customers worldwide.

During its official launch at Conexpo 2026, the machine attracted particular interest from contractors and recycling companies seeking compact, high-performance mobile crushing solutions for processing demolition waste, asphalt, concrete and natural stone.

The R1100d has several key features, starting with a low weight of only 39 t – which is impressive considering its throughput capacity of up to 380 t/hr. As with most Rockster models, the new crusher is equipped with a 9.3 Caterpillar engine combined with a robust diesel-hydraulic drive.

**TOP: The new Rockster R1100d impact crusher features a low weight of just 39 t and a throughput capacity of up to 380 t/hr.**

**RIGHT: The Rockster team with the Equip Sales team, a long-standing Rockster dealer, in front of a sold crusher at Conexpo 2026.**



Beyond its refreshed exterior design, the new impact crusher also includes technical enhancements such as a vertically adjustable magnetic separator, hydraulic gap adjustment controlled via the display, and a heavier rotor that delivers increased torque and greater crushing power for demanding applications.

According to Rockster, feedback from visitors at Conexpo 2026 highlighted growing demand for efficient mobile crushers for recycling and aggregate processing, confirming the market potential for the new R1100d model.

Through its innovative crushing technology and focus on sustainable material processing, Rockster continues to support contractors, recyclers and aggregate producers around the world with reliable mobile crushing equipment. ■

**Note:** Rockster is open to partnership opportunities in Asia. For dealership enquiries, please contact the company directly via the website ([www.rockster.at](http://www.rockster.at))



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The R1100d includes technical enhancements such as a vertically adjustable magnetic separator, hydraulic gap adjustment controlled via the display, and a heavier rotor for increased torque and crushing power.

# VÖGELE'S NEW MT 3000-5 MATERIAL FEEDERS ROLLED OUT GLOBALLY





ABOVE: Voëgele's new MT 3000-5 material feeders are available in standard and offset variants, designed for global markets.

LEFT: The new ErgoPlus 5 operating concept is now easier to use and allows the integration of an optional touchscreen display.



ABOVE: The large receiving hopper, with a capacity of up to 15 t, and the efficient conveyor belt heating system enable fast unloading and smooth conveying of the asphalt mix.

**V**oëgele has upgraded its MT 3000 material feeders to Dash 5 level and begun delivering the first units worldwide. The manufacturer said the machines are available in standard and offset variants in markets around the globe (with the exception of North America and China).

Both models, the MT 3000-5 Standard and the MT 3000-5 Offset, are equipped with the latest ErgoPlus 5 operating concept, additional comfort features and the improved PaveDock Assistant truck communication system. Thanks to the new Dash 5 control technology, these material feeders can also be integrated into Voëgele's digital solutions in the future.

### Smart material conveying concept

The machines have a conveying capacity of up to 1,200 t/hr and can take on a complete truckload of asphalt mix within 60 seconds. The MT 3000-5 Offset is also fitted with a conveyor that can be slewed through an angle of 55°, enabling a wide range of applications – from parallel feeding of two pavers to the InLine Pave method, in which the material feeder and the pavers for the binder course and the surface course operate one behind the other.

The smart material conveying concept, featuring a large receiving hopper and an efficient conveyor belt heating system, allows fast unloading and smooth conveying of the asphalt mix. In addition, the material

feeders are maintenance-friendly, and the ramp angle and receiving hopper have been specially optimised to facilitate easy transportation on low-loader trailers.

### New touchscreen operating concept

The new ErgoPlus 5 operating concept is now easier and more comfortable to use. For the first time, it is possible to integrate an optional touchscreen display and additional cameras. This gives operators an even better overview of relevant areas on and around the machine and allows them to monitor various functions.

Voëgele has also prepared the material feeders for the integration of digital solutions. With the automated functions from Feed Assist, operators only have to press a button to put the material feeder into the transport, repositioning or operating position, or to save material conveying programmes for later use of the settings whenever they are required.

Furthermore, the simplified PaveDock Assistant truck communication system makes the material transfer process even easier: the operator can use two signal lights to clearly show the truck driver whether to dock with the paver or stop. When paving with the InLine Pave method, the signal lights also indicate whether material for the surface course or the binder course is required. This ensures reliable, loss-free and efficient transfer of the asphalt mix. ■

Website: [www.wirtgen-group.com](http://www.wirtgen-group.com)



# INNOVATIVE DEEP FOUNDATION MACHINES AND EQUIPMENT FROM **BAUER**

**B**auer Maschinen's in-house exhibition this year took place from 16 to 18 April in Schrobenhausen, Germany, drawing more than 1,400 customers, partners and industry experts from around the world.

One of the highlights was the introduction of the Bauer BG 50 rotary drilling rig, the successor to the popular BG 45 in the V-kinematics class. The new model offers increased torque and enhanced drilling performance, as well as a new carrier unit, the Bauer BT 145. The single-pass drilling depth has been increased by 7% and the main winch pulling force by 11%.

The new BG 50 is designed for high hydraulic performance and, with 470 kW, also provides 8% more diesel power. Mobilisation and demobilisation are now easier, as the extended mast can be

erected without an auxiliary crane.

Meanwhile, the BG 30 H can be converted into a low-head version in just a few simple steps, making it suitable for construction sites with limited working height. Thanks to optional mast extensions, the drilling rig can be optimised for various project-specific installation heights.

The BG 36 H drilling rig, which was introduced at bauma, was also on display. A key feature is its quick convertibility from the Kelly method to the continuous flight auger (CFA) method. All Bauer rotary drilling rigs are equipped with the B-Tronic 5 control system, which incorporates an intuitive user interface and can be individually personalised through user profiles and display customisation.

### Piling technology

The RG 22 S pile driver from RTG Rammtechnik was another highlight. It is suitable for Kelly drilling and features a new kinematic system with a wide range of motion. Thanks to the FreeLock system, the swivelling mast can be positioned continuously between  $-90^\circ$  and  $+90^\circ$ . An integrated Kelly mast head enables both Kelly drilling and single-pass operations. Additional features include a permissible torque of up to 240 kNm, a pulling force of up to 600 kN for single-pass applications, and a free-hanging load of up to 30 t with the mast unsupported. A larger counterweight of up to 17.2 t provides greater stability.

RTG also showcased an RG 19 with a telescopic leader, an eRG 21 T hybrid, and the MPZ 700-800 sheet pile driver. The latter can be used for sheet pile widths with Z-profiles ranging from 700 to 800 mm. A hydraulically lockable rotating device, higher stroke speeds during pressing and pulling, and an automatic programme further enhance efficiency and ease of use.



ABOVE: Among the highlights at Bauer Maschinen's in-house exhibition was the new BG 50 rotary drilling rig, the successor to the popular BG 45 model.

OPPOSITE: The event was held from 16 to 18 April 2026 in Schrobenhausen, Germany, attracting more than 1,400 guests from around the world.



Live demonstrations on the nearby plant grounds in Aresing, factory tours, and expert panel discussions were also part of the event.



### Klemm drilling rigs

Klemm Bohrtechnik's electro-hydraulic, zero-emission KR 806-3E drilling rig significantly reduces noise and dust emissions. With a mains connection and an additional battery, the machine can be operated flexibly and is ideal for construction sites with stringent emission-reduction requirements.

In addition, the KR 801-3GK universal drilling rig is fitted with a 90° swivelling articulated boom. A compact design, a 129-kW motor and modern radio remote control ensure high performance and flexible application options, even on confined construction sites.

The KR 710-3G builds on Klemm's KR 709-3G, delivering a more powerful rotary drive and higher retraction forces to boost drilling productivity during pile construction and high-pressure grouting.

For geothermal applications, Klemm offers the compact KR 708-3GW, which is specifically designed for installing geothermal loops. Energy-efficient hydraulics, flexible kinematics and optional add-on technology enable versatile applications even on space-restricted jobsites.

Other exhibits comprised the RB 65 universal drilling rig for well construction, geothermal energy and exploration, as well as mixing, pumping and separation technology from Bauer MAT Slurry Handling Systems, including a CMS 50 mixing plant, an IPA 460 injection plant, and an HPI 800 high-pressure pump. ■



TOP AND ABOVE: Bauer presented a wide range of machines at the event, from diaphragm wall to pile driving and drilling technology.

Website: [www.bauer.de](http://www.bauer.de)

All images: Bauer Group

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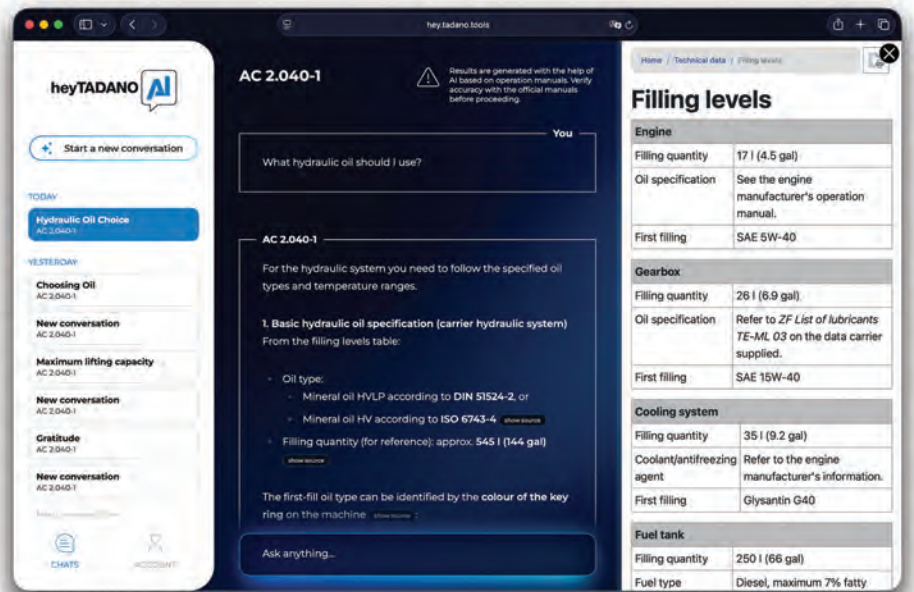
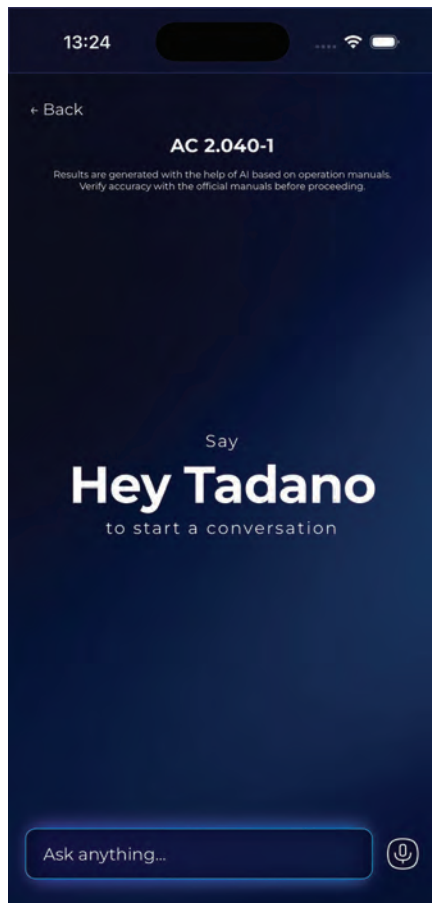
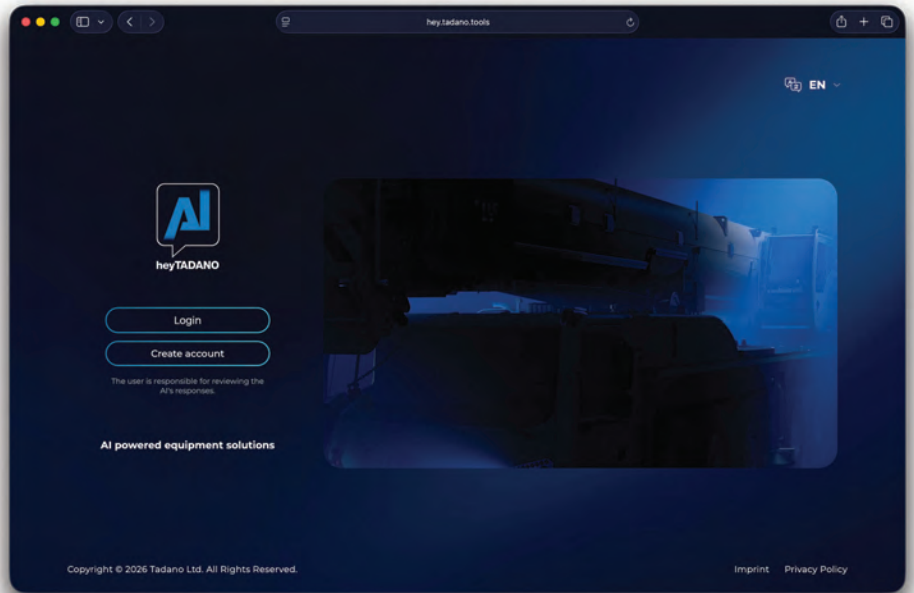
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# HEYTADANO: AI ASSISTANT FOR CRANE OPERATORS NOW FEATURES VOICE CONTROL

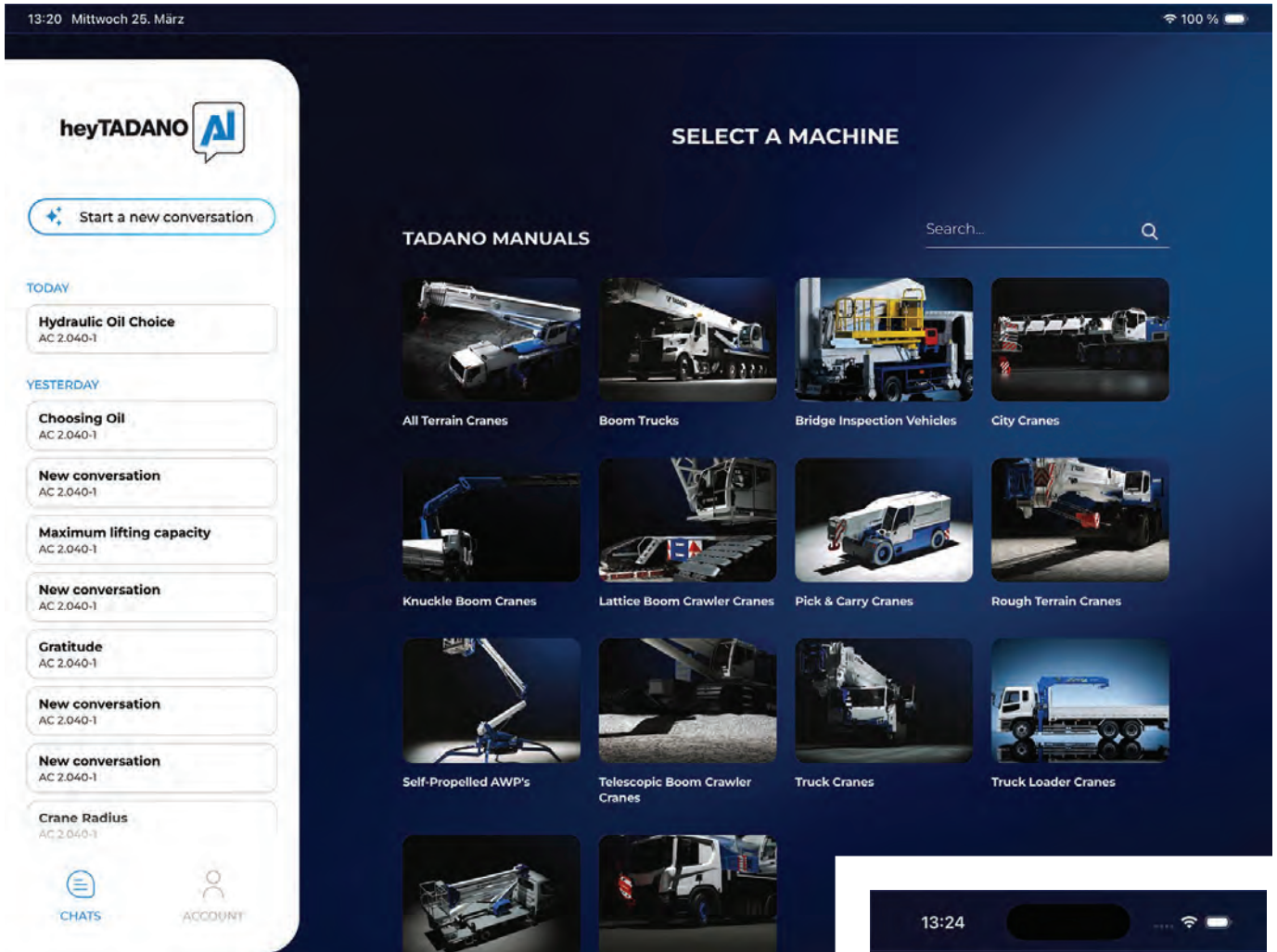
Whether it's operating instructions, technical questions, or troubleshooting, the Tadano AI assistant 'heyTadano' is available around the clock for crane operators as the first point of contact, providing intelligent and fast support.

This AI assistant has now been enhanced with upgrades and voice control, and has received the German Design Award 2026 in the AI in Communications Design category. According to Tadano, the jury praised the successful combination of technical precision, high-quality content and consistent user-centricity in the redesigned app.



TOP AND ABOVE: The Tadano AI assistant 'heyTadano' has been enhanced with upgrades and voice control. The tool is available around the clock for crane operators as the first point of contact, providing intelligent and fast support.

LEFT: To ensure accurate responses to every query, Tadano has trained heyTadano using all operating manuals for its cranes, as well as other official documentation. The AI assistant delivers information within moments, eliminating the need for time-consuming manual searches or waiting for callbacks.



ABOVE AND RIGHT: For iOS devices, Tadano offers a dedicated heyTadano app in the App Store. It features convenient voice control, activated by the command 'Hey Tadano.' A web version is available for Android devices, which includes a tap-to-speech function for voice input. The tool is available free of charge in over 50 languages, and can be used immediately after a one-time registration.

“With heyTadano, we are underscoring our expertise in AI-supported information solutions while simultaneously strengthening our service for partners and customers,” said Matthias Schneider, Tadano’s marketing manager for EMEA and global digital marketing lead. This award confirms Tadano’s high standards for innovation, user-friendliness and digital communication.”

heyTadano earned the award primarily through its revamped design – comprising clear product categorisation, a modern and consistent look, and optimised user guidance for even faster access to relevant information.

To ensure accurate responses to every query, Tadano has trained heyTadano using all operating manuals for its cranes, as well as other official documentation. The AI assistant delivers information within moments, eliminating the need for time-

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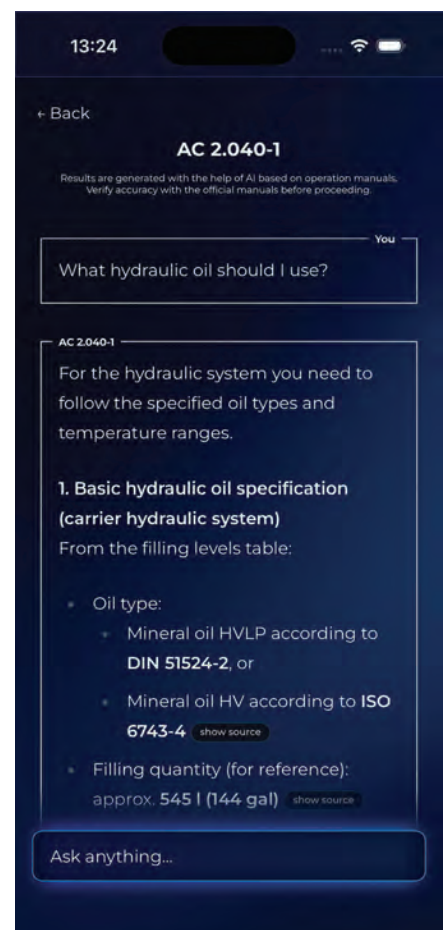
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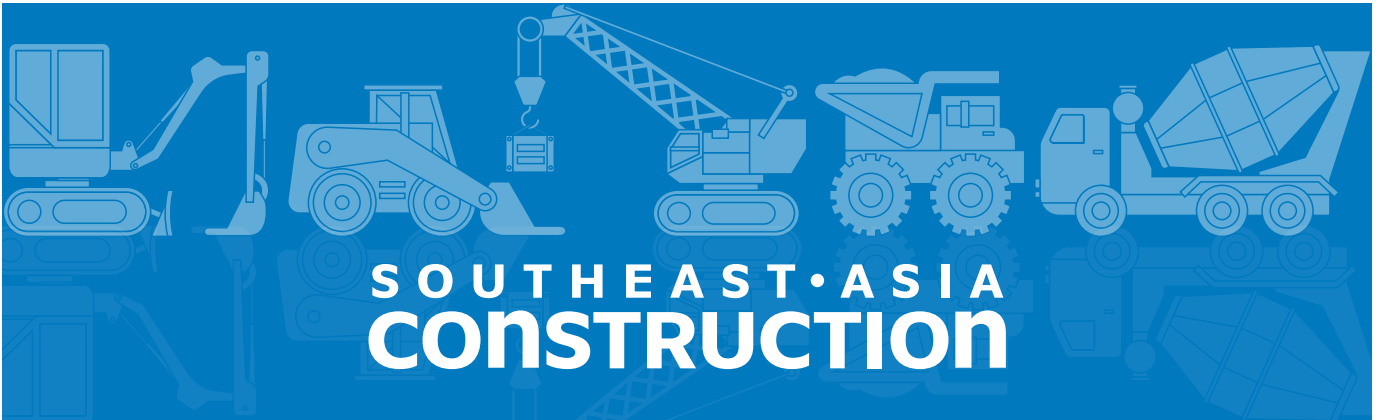
For iOS devices, Tadano offers a dedicated heyTadano app in the App Store. It features convenient voice control, activated by the command ‘Hey Tadano.’ Once activated, users can ask questions verbally, and the answers are provided in the same way.

A web version is available for Android devices, which includes a tap-to-speech function for voice input. “The new voice function significantly simplifies the use of the app, especially in operational settings,” said Mr Schneider.

The tool is available free of charge in over 50 languages via the website and the iOS App Store, and can be used immediately following a one-time registration. ■

Website: <https://hey.tadano.tools>





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