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January / February 2024

SEAB

SOUTHEAST ASIA BUILDING

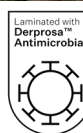


The Sustainability Issue

Adaptive Reuse Architecture

Exclusive Content: Solar Energy (Outlook in Asia)

ON THE COVER: The Cocoa Project / Vietnam



ISSN 2345-7066



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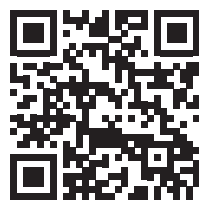
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Project: Zi Ling Changxing Kindergarten
Design Company: X+Living
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On the Cover: The Cocoa Project in Saigon (Ho Chi Minh), Vietnam. Architect team of the project: T3 Architects and Kanopea Architecture Studio. Photographer: Hiroyuki OKI

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Southeast Asia Building is available free-of-charge to applicants in the building industry who meet the publication's terms of control. For applicants who do not qualify for free subscription, copies will be made available, subject to acceptance by the publisher, for a subscription fee, which varies according to the country of residence in the following manner:

Annual Subscription

Airmail: America/Europe – S\$220, Japan, Australia, New Zealand – S\$220, Middle East – S\$220, Asia – S\$180, Malaysia / Brunei – S\$120

Surface mail: Singapore – S\$70

(Incl 9% GST Reg No.: M2-0108708-2)

Printed in Singapore by Fuisland Offset Printing (S) Pte Ltd
MCI (P) 027/08/2023 KDN No: 1560 (1270) – (6)
ISSN 2345-7066 (Print) and ISSN 2345-7074 (E-periodical)

Trade Link Media Pte Ltd also publishes:

- Bathroom + Kitchen Today
- Lighting Today
- Security Solutions Today
- Southeast Asia Construction

SOUTHEAST ASIA BUILDING is published bi-monthly by:

Trade Link Media Pte Ltd, 1 Paya Lebar Link, #04-01, Paya Lebar Quarter 1 (PLQ 1), Singapore 408533
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Website: www.tradelinkmedia.com.sg

Co. Reg. no.: 199204277K

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Welcome to Jan/Feb issue!

Hello readers and welcome to the first issue of 2024. The January/February issue is about sustainability and we have chosen adaptive reuse as our main topic.

Adaptive reuse is a sustainable approach to architecture as it repurposes the building's function for a new one instead of demolishing it completely. We have put together some projects that showcase how the old structures were reconstructed into new ones, to reduce the embodied carbon of the buildings.

In the exclusive content section, we look at how far the solar industry has progressed in Asia, through our conversations with two industry players from Singapore and Malaysia. And in interior, we explore the interior design of three educational building projects.

From 2024 onwards, we will be introducing a new section in the magazine for property developers. In every issue, we will interview a property developer on current issues. In Jan/Feb issue, we are featuring GuocoLand, a leading real estate group. The group bagged numerous accolades at various industry awards in 2023.

In the PDF copy, we have a show review of Architecture & Building Services 2023 held in Singapore from 15-17 November 2023. The review covers some products and technologies exhibited at the show.

If you have any comments or feedback, please drop me an email at seab@tradelinkmedia.com.sg

Take care and I wish you a fabulous 2024!

Amita Natverlal

March / April 2024 Issue

FEATURES:

- Office Buildings Architecture
- Retail Interior Design
- Playgrounds & Landscaping
- Interview With Property Developers On Current Issues
- Exclusive Content – Design Technology (AI In Architecture)



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Association of Myanmar Architects



Bangladesh Green Building Council



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Green Building Council Sri Lanka



Hong Kong Green Building Council



Interior Design Confederation of Singapore



Jordan Green Building Council



Qatar Green Building Council



Philippine Green Building Council



Singapore Green Building Council



Society of Interior Designers (Singapore)



The Hong Kong Institute of Architects



Vietnam Green Building Council



Green Institute Nepal



Interior Designers Association of Nepal



Singapore Institute of Building Limited



Society of British and International Interior Design

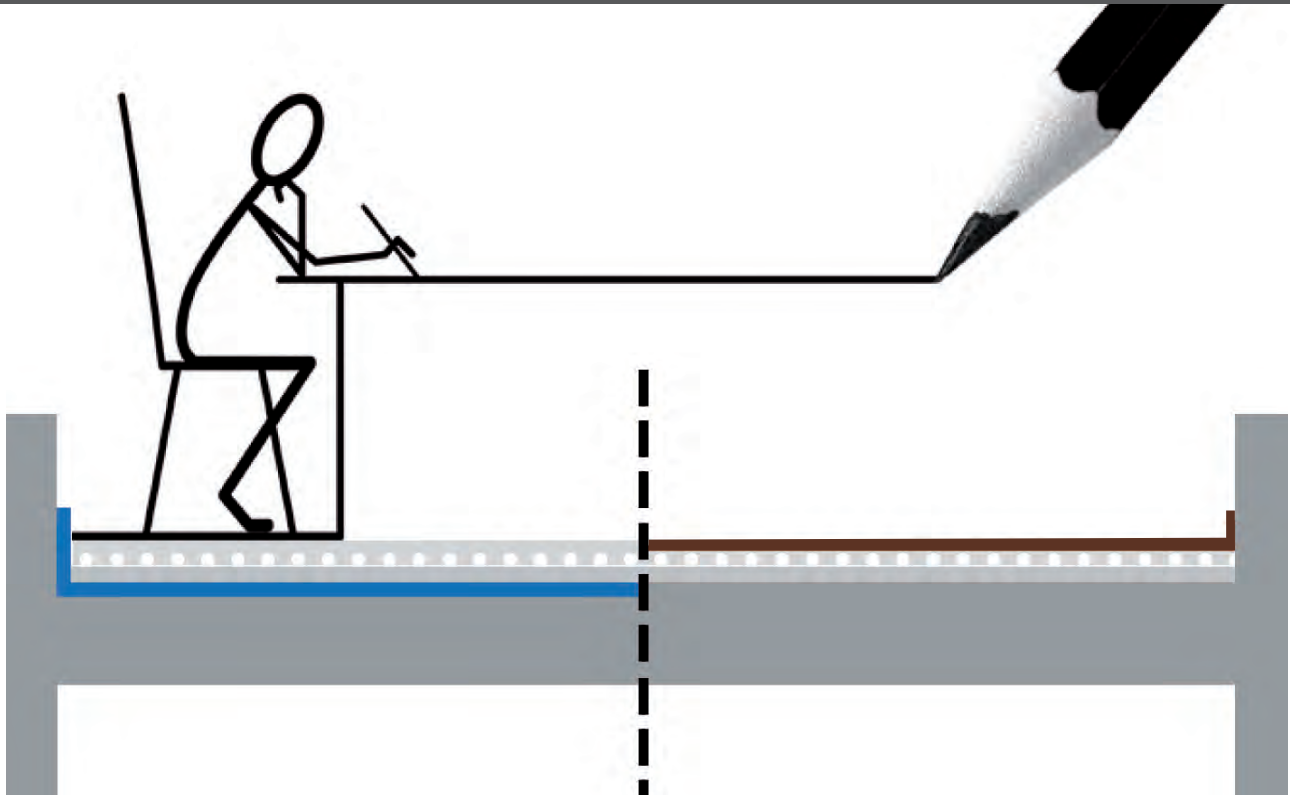


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Education in Motion unveils Singapore's first net zero international school building at Dulwich College (Singapore)

Singapore – On 23 November, global education leader Education in Motion (EiM), announced the grand opening of The Greenhouse, Singapore's first net zero international school building located at the Dulwich College (Singapore) campus in Bukit Batok.

The building achieves more than 100 percent energy savings and reduces about 216 tonnes of carbon dioxide (CO₂) emissions during operations, the equivalent of powering 122 four-room HDB flats or planting 8,600 trees. The ceremony was officiated by Guest of Honour Mr Desmond Lee, Minister for National Development and Minister-in-Charge of Social Services Integration, and distinguished guest, Her Excellency Kara Owen, British High Commissioner to Singapore.

The Greenhouse at Dulwich College (Singapore) is the only international school building in Singapore to be certified Green Mark Platinum Zero Energy, contributing to the Singapore Green Plan 2030 through its energy savings and carbon reduction features. This is the highest level of sustainable construction certification in Singapore.

The design of the building also marks a first in Singapore with the introduction of an eco-envelope consisting of building-integrated photovoltaics (BIPV) panels covering an extensive 1,300 square metres extending from the north facade of The Greenhouse to the rooftop. Generating a total of 210,000 kWh of renewable energy annually, the eco-envelope will offset 85 tonnes of CO₂, which is the equivalent of planting 3,400 trees. This was achieved through close collaborations with the Building and Construction Authority (BCA), Urban Redevelopment Authority (URA) and Singapore Civil Defence Force (SCDF) to ensure the innovative system fully complied with all safety and design requirements in Singapore.

Mr Desmond Lee, Minister for National Development and Minister-in-Charge of Social Services Integration, shared during his speech at the grand opening, "I applaud Education in Motion's efforts in pushing the boundaries of energy efficiency and encourage more organisations to follow suit.



Facade of The Greenhouse. Photo credit: Education in Motion (EiM)

This will not only allow companies to develop a competitive edge, but it also helps to align them with the growing environmental consciousness of investors and building users."

Ms Karen Yung, Founder and Chief Collaboration Officer at EiM echoed: "We believe that education and environmental responsibility go hand in hand. Sustainability has always been close



From left to right: Mr Nick Magnus, Founding Head of College, Dulwich College (Singapore); Ms Karen Yung, Education in Motion's Founder and Chief Collaboration Officer; Mr Desmond Lee, Minister for National Development and Minister-in-Charge of Social Services Integration; Her Excellency Kara Owen, British High Commissioner to Singapore; and Mr Fraser White, Education in Motion's Founder, Chairman & CEO. Photo credit: Education in Motion (EiM)

to our hearts, and it needs to start from the ground-up – in our schools. At Education in Motion, we pride ourselves on being the progressive leader of education for a sustainable future. We created



Rooftop garden at The Greenhouse. Photo credit: Education in Motion (EiM)

The Greenhouse to be a space where students are inspired and empowered to create a sustainable future for generations to come. The Greenhouse is not just a building – it is a testament to nurturing environmentally conscious global citizens who are deeply passionate and committed to creating real impact for a better world."

Aligned with the Singapore Green Building Masterplan, EiM's The Greenhouse captures Singapore's collective commitment to pursue more ambitious sustainability standards through its features.

One critical aspect of The Greenhouse at Dulwich College (Singapore) is the use of technology to educate the student body on sustainability and energy consumption. Within the building, screens display real-time information about energy usage generated from the solar panels, rainwater harvesting tank, and more. The data is then integrated into the College's Senior School curriculum, empowering students to recognise and better understand the impact of their activities on the environment. This approach brings to life the practical application of sustainability principles through the building architecture and how students interact with it.



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Raymond Hoe joins BDP as regional director in Singapore



Raymond Hoe. Photo credit: BDP

Singapore – Leading global architecture and design practice, BDP, has announced the appointment of the influential architect, Raymond Hoe as a regional director in Singapore.

Raymond Hoe is an accomplished designer and business leader with a remarkable career which has seen him work on some of the most inspiring building designs in Singapore, Vietnam, Philippines, Maldives and China. As a visionary in the field of both architecture and interior design, he is bringing his extensive experience and expertise to BDP's projects in Singapore and the wider Asia-Pacific (APAC) region.

Raymond has a distinguished track record of successfully managing and collaborating with teams of architects and interior designers across all stages of projects, from inception and design to implementation and post-completion. As part of his role at BDP, he will assume responsibility for organisational leadership within the studio in Singapore, overseeing management, business performance, and operations. His role extends to providing design leadership for architecture projects and masterplans in various sectors including, mixed-use developments, education, retail, hospitality, technological-led and mission critical developments.

With a career spanning more than two decades, his accomplishments and contributions to the field of architecture have been widely recognised. In addition to being a part-time lecturer with the Architecture School at the National University

of Singapore since 2010, his projects have received numerous awards, notably the President's 2008 Design of the Year award, World Architecture News 2021 award (Bronze) and World Architecture Festival 2015 (finalist) for his involvement in Singapore's Henderson Wave Bridge, the Strata House and St Regis resort hotel in Maldives, respectively. Raymond was also featured in the 2016 Tatler Homes '50 Most Influential Design' list, which highlights key design influencers in Singapore.

Raymond said of his appointment: "My vision is to help BDP create timeless, sustainable, and beautiful environments that inspire clients and communities. I want to bring a fusion of commercial intelligence and critical design thinking to the role, creating buildings and places that stand out for their excellence and innovation. I've long known BDP as an international design firm with a strong brand with a breadth of beautiful, functional, high-quality designs and I'm very happy to be joining now to help expand the operation in Southeast Asia."

Jeremy Farrington, Principal at BDP, added: "Raymond's aspirations for this role fit perfectly with our company values and ethos. He wants to design places that work for people, communities and wider society and his wealth of experience will undoubtedly strengthen our position in Singapore and the APAC region. We are excited to see the transformative impact of his design thinking and industry expertise."

LG forms consortium for advanced heat pump research in Alaska

Seoul, South Korea – LG Electronics (LG) is establishing a research facility in Alaska, USA, to accelerate its research and development efforts in the field of heating, ventilation and air conditioning (HVAC).

The new research lab comes under the newly formed Consortium for Advanced Heat Pump Research (CAHR), a collaboration between LG and local universities. The company anticipates the joint effort will enhance the competitiveness of its HVAC products through delivering groundbreaking innovations in 'cold climate' technology.

LG will operate the state-of-the-art facility in conjunction with the College of Engineering at the University of Alaska Anchorage (UAA) and the University of Alaska Fairbanks' highly regarded HVAC Lab.

Improving the heating performance of heat pumps operating in regions with very low temperatures – such as Alaska – is a challenge due to the reduction in refrigerant circulation caused by the cold. LG recognises the need to develop and validate products in extreme cold conditions, which led it to establish the research lab in Alaska. The jointly-run lab will facilitate the collection of operational data at low-temperatures, hastening the development of solutions that can reliably produce top-tier performance in the harshest climatic conditions.

The CAHR aims to foster HVAC innovation through undertaking specialised R&D, providing access to key resources, and creating a culture centered on learning and problem-solving. LG will conduct research in two dedicated facilities: a university-owned building on the Anchorage campus and a site in Fairbanks, Alaska, that will be constructed like a real-world home. The Fairbanks facility will be equipped with a diverse range of sophisticated LG HVAC solutions, including ducted and duct-free indoor and outdoor units as well as the



LG Electronics establishes a consortium for advanced heat pump research in Alaska. From left, Thomas Yoon (CEO of LG Electronics North America), Sean Parnell (chancellor of the University of Alaska Anchorage), and James Lee (head of the Air Solution Business Unit at LG Electronics).



LG Electronics establishes a consortium for advanced heat pump research in Alaska. From left, Sean Parnell (chancellor of the University of Alaska Anchorage), and James Lee (head of the Air Solution Business Unit at LG Electronics).

company's revolutionary Inverter Heat Pump Water Heater.

LG and its university partners will oversee a variety of tests designed to assess performance under various environmental conditions, such as snow, rain and extremely low temperatures, and by introducing different variables that have not previously been considered in testing heat pump efficacy. LG believes that the results of the research will contribute to better product heating performance,

quality and reliability.

The Alaska research lab is expected to help LG make significant strides in both the North American and European HVAC market, enabling it to further strengthen its core technologies and first-class solutions, such as inverters and heat pumps, and boost overall product competitiveness. The company is also confident that the R&D efforts soon to be initiated under the CAHR will help shape the future of the HVAC industry.

Online registration now open for Geo Connect Asia 2024 exhibition and conference

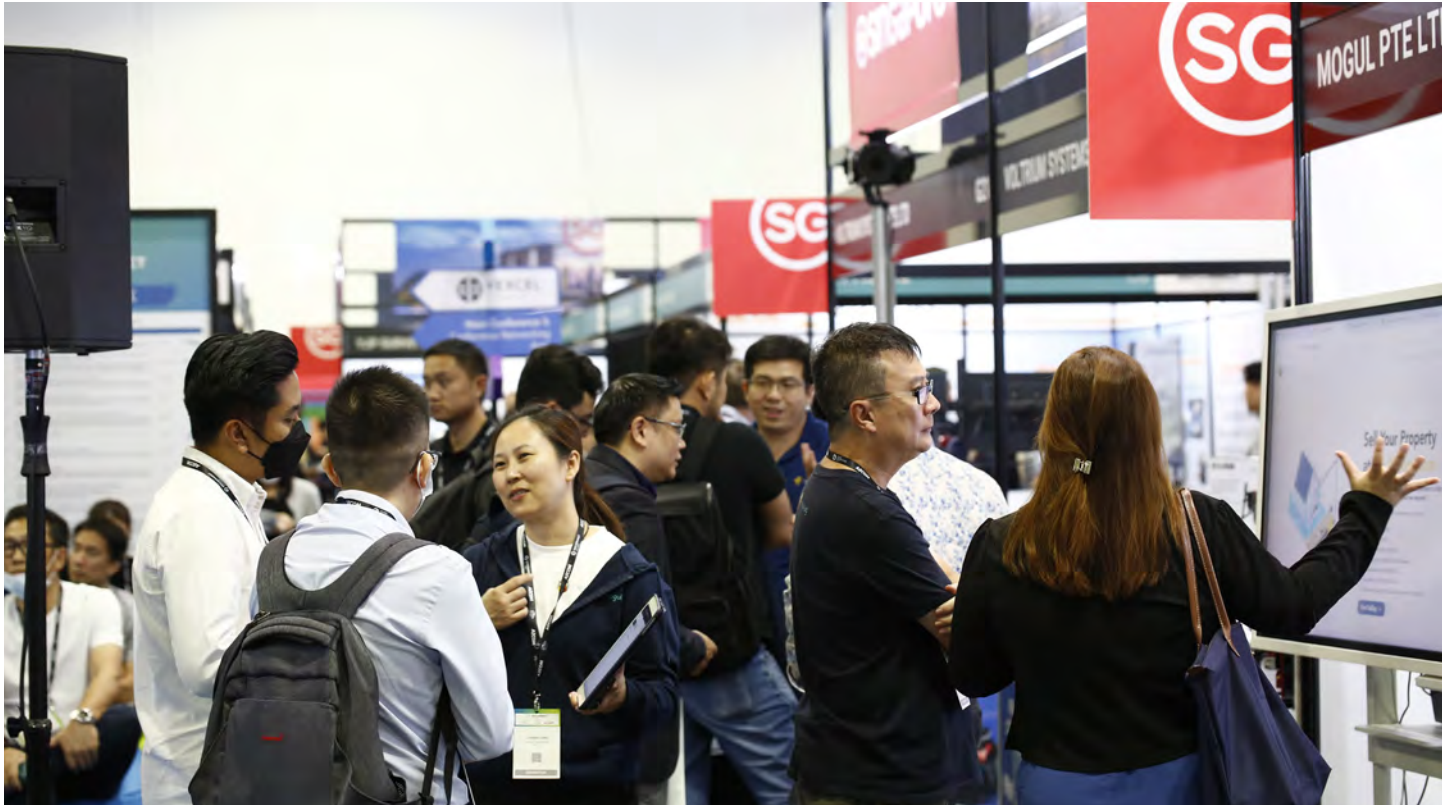


Photo credit: Geo Connect Asia 2023

Singapore – Geo Connect Asia returns to Singapore on the 6th & 7th March 2024 and online registration is now open for conference bookings and professional visitors.

Launched in 2019 by Singapore based Montgomery Asia, Geo Connect Asia has built a leading position as the region's leading international show for the geospatial, positioning and remote sensing industries.

With the theme "Geospatial driven impacts: underground, ground and sea to sky", the conference programme addresses key challenges facing the Asian region, from public health and critical infrastructure to Geo + AI and the monitoring of utility operations.

Geo Connect Asia also embraces the demands for digitalisation of the construction industry, through the co-located Digital Construction Asia show. The launch of Marine & Hydro Asia provides focus on the hydrospatial challenges of managing key issues relating to Asia's coastal and marine waters.

More than 130 companies are expected to take part in the combined exhibitions, with more than 70 speakers contributing to the associated conferences.

Working with the Singapore Land Authority (SLA), as its Strategic Partner, Geo Connect Asia provides a platform for the introduction of geospatial based solutions across the region.

Mr Ng Siau Yong, Director, GeoSpatial and Data Division & Chief Data Officer of SLA, comments: "We are delighted to support Geo Connect Asia, as Strategic Partner, in our mission to mainstream geospatial-based applications and solutions in Singapore, across public agencies and industry. Themed Geospatial driven impacts, this international industry event provides the perfect opportunity for all participants to demonstrate the influence and learn about the power of geospatial information and technology at work and in the daily lives of citizens."

More than 3,500 professionals are expected to attend Geo Connect Asia and its sister shows, which includes the co-located Drones Asia, relaunched as Drones & Uncrewed Asia, providing a dedicated platform for the region's UAV markets. All the shows will take place at Sands Expo & Convention Centre in Singapore.

Visit www.geoconnectasia.com or www.dronesasia.com for more information.

Hirsch Bedner Associates (HBA) and Air India join forces to redefine first and business class lounge experience at New Delhi and New York (JFK) airports

Singapore – Hirsch Bedner Associates (HBA), one of the world's leading hospitality design firms, is pleased to announce its collaboration with Air India, marking an exciting partnership between two renowned brand names in travel and hospitality.

Rajesh Dogra, Chief Customer Experience Officer, at Air India commented, "We are committed to offering the highest standards of service to our guests, and the association with Hirsch Bedner Associates (HBA) will help us design a lounge to offer a warm and welcoming lounge experience. We look forward to ensuring a memorable experience for our esteemed guests that embodies the essence of Air India's commitment to excellence and sets new benchmarks for customer satisfaction."

Ian Carr, Co-CEO at HBA, concurred, "We are honoured to partner with Air India and are dedicated to delivering an exceptional hospitality design experience. Our primary focus is to create a meaningful environment for Air India passengers allowing them to experience the airline's inspirational brand and lounges in a fresh and innovative way."

As part of a progressive luxury product upgrade worldwide, HBA has been entrusted with the design of Air India's first and business class lounges in the New Delhi and New York (JFK) Airports. Leveraging its award winning interior design capability, HBA also brings its renowned holistic design approach to the project, with its expertise in brand, art and lighting consultancy, as well as graphics and wayfinding.

"Lounges play a pivotal role in differentiating the travel experience, particularly for long-haul international travellers," said Victoria Edwards, Principal, HBA DNA. As a dedicated team we are committed to curating an impressive experience that enhances the Air India passenger journey, effectively communicating the brand's essence across all touchpoints".



Victoria Edwards, Principal HBA DNA



Sabine Beck, Partner HBA

HBA DNA's scope encompasses:

- Capturing the essence of the Air India brand and defining the branded experience and customer journey.
- Ideating the unique touchpoints that reflect the brand's identity and strategising memorable experiences within the new lounge space.
- Providing the platform for the HBA Interiors team to commence their design work, while ensuring the outcome aligns seamlessly with Air India's brand values and aspirations.

Drawing inspiration from the brand discovery phase and Air India's rich heritage, the HBA Interiors team will create a distinctive design that fulfils passengers' every need within the lounge. Each space will offer its own distinct furnishings, acoustic properties, floor and ceiling materials, and light quality to create an elevated ambiance and travel experience for passengers.

Sabine Beck, Partner HBA and Creative Director shared, "As designers we are excited by the project and the opportunity to work alongside an innovative travel leader. When it comes to the shaping of public spaces, an airport lounge provides an opportunity to cater for a broad spectrum of tastes and preferences. The lounges in New Delhi and New York will set an international benchmark for Air India in design with the highest levels of comfort, service, and luxury. Passengers can relax and feel their best in the space as they prepare for their flight."

Renowned for delivering timeless hospitality spaces, Air India's appointment of HBA underscores its commitment to becoming a prominent international aviation player. Plans are in place by Air India to expand their portfolio of lounges, together with the refit of aircraft and the ordering of new planes. The collaboration between Air India and HBA's is an opportunity to together reimagine the traveller's experience.

Singapore's new Science Centre breaks ground

Singapore – Singapore's Science Centre Board held a groundbreaking ceremony for the new Science Centre, at the site located next to Chinese Garden MRT station.

The new Centre will offer unique facilities and a wide range of programmes to drive STEM education in Singapore. Set to be a key landmark attraction of the Jurong Lake District, the approximately 55,000 square metres building, designed by Zaha Hadid Architects in collaboration with Architects 61 Pte Ltd, will be developed over a site of about 7.4 hectares, and will be about 25 percent larger than the current Centre. The new Science Centre is targeted to open around end-2027, the year of its 50th anniversary.

Mr Teo Chee Hean, Senior Minister, Coordinating Minister for National Security, and Patron of Science Centre Board; Mr Chan Chun Sing, Minister for Education; Ms Tan Yen Yen, Chairman, Science Centre Board; and Associate Professor Lim Tit Meng, Chief Executive, Science Centre Board, officiated the ceremony.

Commenting on this important milestone towards realising the new Science Centre's vision, Associate Professor Lim Tit Meng, Chief Executive of Science Centre Board said, "The Science Centre is now 46 years old and



View of the new Science Centre for visitors arriving by MRT. Render by Negativ. The image is an artist's impression, and final design may be subject to changes.

during this journey of more than four decades, the locale has been a landmark for generations, inspiring countless individuals who are today some of Singapore's best STEM talents. Through strategic community partnerships and innovative programme development, we aim to make the new Science Centre a place where guests of all backgrounds not only want to visit but leave with a heightened curiosity about the world of science and technology."

The new Science Centre will be

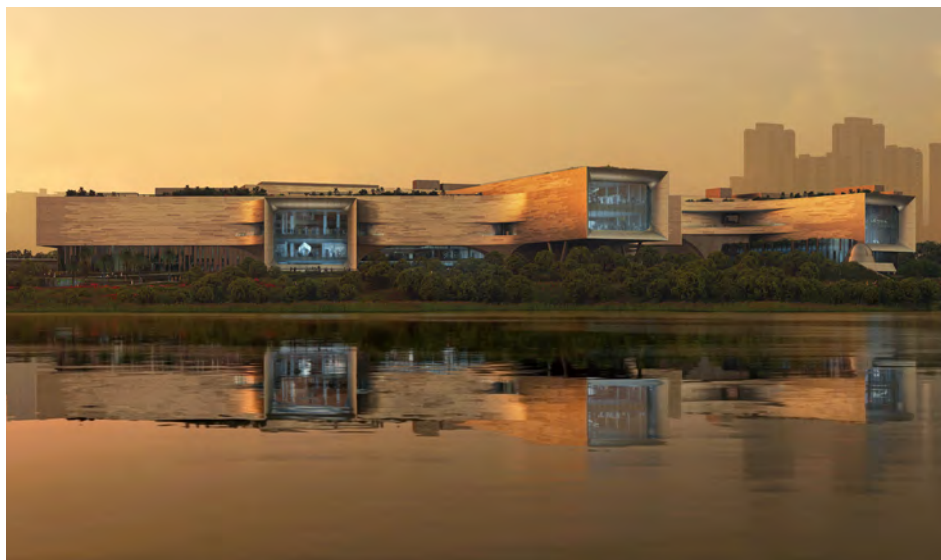
equipped with the latest technologies to provide immersive learning experiences for visitors of all ages. The new KidsSTOP, which will be more than twice its current size, will feature hands-on, interactive exhibits that encourage exploration for young children. The Centre will also work with partners to prototype exhibitions and programmes that will enable parents to play a bigger role in facilitating their child's exploration of various educational activities.

To cater to the interests of youths and adults, the Science Centre plans to foster more dialogue on real-world issues such as sustainability and climate change, as well as emerging technologies like generative Artificial Intelligence through workshops, exhibitions, and seminars.

The Science Centre will also become a test-bed new concepts and ideas to provide a more novel experience for visitors. For example, the Centre has experimented with concepts beyond science, such as the Comic Art and Sci Fi Expo in September 2023.

Visitors will be able to look forward to more of such offerings with a unique scientific perspective at the Centre.

The Science Centre's fire tornado show will be more spectacular at its new home at the Outdoor Amphitheatre, and will be open to the public.



Waterfront view of new Science Centre. Render by Negativ. The image is an artist's impression, and final design may be subject to changes.

"Long house with an engawa" wins Good Design Grand Award for 2023

Tokyo, Japan – The Japan Institute of Design Promotion (JDP) announced that the Good Design Grand Award for 2023 has been awarded to the "Long house with an engawa", a Senior Daycare Center.

The Good Design Grand Award is the highest award given to one of the winners of the annual Good Design Awards. Since 1980, the Good Design Grand Award has produced various famous designs as it symbolises today's society and a suitable symbol of what design can do in the future.

"Long house with an engawa" was selected from among 1,548 entries for the Good Design Award 2023 by a vote of the jury members and award winners.

Design Summary

This project is a welfare facility designed to care for the elderly. The design is like Japanese traditional porch "Engawa" where locals can drop in casually. It is also a community base for welfare that is a place for the elderly, children, and locals to help each other in times of trouble.

Key design points

- A day service facility that is not dependent on the system, but a community-based day service facility that fosters mutual support and coexistence among local society and individuals.
- The facility is designed as an architectural embodiment of a small town, with a café, a temple lodging, a day service, and a public bath, where the place open to everyone.
- The Engawa that connects the facilities to the community with various accesses. The Engawa where everyone can spend time together. The Engawa for each individual to have a good time.

Jury's Evaluations

It is a place where people can help each other in the community. It is unconventional day-care service. It



is operated as a day-care facility, but welcomes everyone from babies to the elderly, which is so wonderful. Perhaps there are supporters who agree with the community vision and a support system where people can help each other. The elderly are not only supported, but watch over children. Children help the adults. Everyone helps each other. It reminds us of old times. The long engawa-style deck and wide space under the roof embody the concept beautifully and cause the actual situation. It seems that he has conducted workshops on garden building and has been working hard to create a place of trust. Its steady approach is also highly commendable.

Good Design Award winners' comments

In an age when efficiency and convenience are demanded in various aspects, we created this facility because we believe that the elderly need a place where they can live with dignity as human beings. We believe that the happiness for those elderly often comes from daily communication with children and people of various

generations. Through this facility, we are hoping to bring back the views of a society where not only the elderly but also everyone can live happily by communicating with each other which are being lost in today's society. (Hidekazu Ishii / President, ALL FOR ONE Co., Ltd.)

2023 Good Design Grand Award (Prime Minister's award)

Senior Daycare Center, Long house with an engawa

Winner: ALLFORONE Co., Ltd. + KENTARO YAMAZAKI DESIGNWORKSHOP Co., Ltd.

Producer: Akane Miyamoto, wacca + Yuichi Asa, nano-associates

Designer: KENTARO YAMAZAKI, YAMAZAKI KENTARO DESIGN WORKSHOP Co., Ltd. + Shuji Tada Structural Design Office + Inada Landscape Design Office + BONBORI Lighting Architect & Associates, Inc.

Location: Yachiyo City, Chiba Prefecture

Site Area: 1,585.85 square metres

Gross Floor Area: 424.24 square metres

Floor Area: 493.30 square metres

Wooden/Baseament: 1st floor

Cundall boosts APAC growth trajectory with key leadership appointment

Singapore – International multi-disciplinary engineering and sustainability consultancy, Cundall, has appointed Matt Dalby as Partner to further strengthen their growth in the region.

Matt is a Chartered Engineer with a Master of Engineering and brings over 20 years' experience to the team. He began his career in the UK and then spent eight years in the Middle East before relocating to Singapore in 2020. Prior to joining Cundall, Matt held a senior leadership role at Beca as Director of Operations, Asia. He has significant experience in managing large scale projects ranging from 6-star signature hotels, high rise commercial buildings, refurbishment of integrated hospitals and sustainable infrastructure projects including airport terminals and rapid transit systems.

In his new role, Matt will be a member of Cundall's APAC Management Board, driving operational performance in line with Cundall's global strategy. Utilising his technical expertise and a deep understanding of client expectations,



Matt Dalby. Photo credit: Cundall

Matt will enhance Cundall's service and technical delivery to consistently meet client care and create positive and sustainable outcome.

Julian Bott, Managing Director APAC said: "We are excited to welcome Matt to Cundall. We have an ambitious growth plan in the region with a focus on developing our business in Asia. Matt's experience on driving operational performance, providing business leadership and direction will be instrumental in the success for our expansion."

Matt Dalby, Partner said: "Cundall has a great reputation within the industry, and I am delighted to become a part of this amazing team. Cundall's values and ambition to drive sustainability through collaboration, innovation and technical excellence really speaks to me. My passion is to work with great people and to create a trusted culture in the business. I am looking forward to working with the talented and hard-working team at Cundall to strengthen their growth and further develop the incredible brand."

Priyanka Ranatunga appointed as Chair of the Communication and External Relations committee for IFLA-AP region

Colombo, Sri Lanka – Priyanka Ranatunga, President of the Sri Lanka Institute of Landscape Architects has been appointed as Chair of the Communication and External Relations committee for IFLA-AP region for two years. The announcement was made on 15 November 2023 at the IFLA-AP Region council meeting in Tokyo, Japan.

Priyanka will oversee the communication and external relations of 14 countries in the Asia Pacific region. He brings a wealth of experience to the new role.

Priyanka was born in Southern Province of Sri Lanka in the Galle District. His school education was at Richmond College Galle and passed the University entrance in 1989. He was in the Faculty of Architecture of University of Moratuwa, Sri Lanka and obtained the BSc (Built Environment) in 1995. Subsequently, as he had an interest in the subject of Landscaping Architecture and being aware of the importance of the subject in the future, he obtained a MSc degree in Landscaping Architecture in year 2000.

Since the last 18 years, Priyanka has made a bridge between Sri Lanka Institute of Landscape Architecture SLILA and IFLA. Thus, Priyanka's intention is to develop an efficient two-way communication among APR and other professions relevant to in the fields of art and science.



Priyanka Ranatunga

Surbana Jurong and Invest Sarawak sign partnership to deepen energy transition, transformation & decarbonisation initiatives in Sarawak State



From L-R: Yeo Choon Chong, CEO, ASEAN, Surbana Jurong; Tan Wooi Leong, Managing Director, Energy & Industrial, Surbana Jurong; Timothy Ong, CEO, InvestSarawak; and Dzulkornain Masron, Acting Permanent Secretary, MINTRED at the signing held at COP28. Photo credit: COP28 Singapore Pavilion

Singapore – Surbana Jurong (SJ) signed a Memorandum of Understanding (MOU) with Invest Sarawak, an entity under the State Government of Sarawak's Ministry of International Trade, Industry and Investment (MINTRED Sarawak) on 5 December 2023 to develop cooperation and partnership opportunities to pursue industrial transformation, energy transition and industrial decarbonisation, carbon capture, utility and storage (CCUS) and industrial park development and management in Sarawak.

The key aims of the cooperation include identifying challenges and opportunities present for Sarawak's industrial landscape, such as green economy opportunities and enhance and develop skillsets to equip the people of Sarawak for new opportunities; and the implementation of energy transition and industrial decarbonisation projects, integrated with greenfield and brownfield industrial activities. The partners will identify carbon capture opportunities especially in the power generation sector, such as potential carbon utilisation and sequestration projects.

One of the key features of the partnership include the joint establishment of an industrial park venture to implement best-in-class standards in the planning, development and future management of greenfield industrial parks that prioritises decarbonisation and sustainable power sources.

SJ has a strong track record and deep expertise in developing future-ready ecosystems covering renewables, carbon capture utilisation strategies, new energies and gas, energy infrastructure, and industrial decarbonisation strategies that can lead to low carbon and net zero outcomes, especially for hard-to-abate industries.

This is the second partnership between SJ and Sarawak's MINTRED, following its first partnership agreement signed in 2021.

Under the 2021 agreement, SJ was appointed to study the State's broader industrial transformation plan to explore bold and innovative ways to meet the future needs of Sarawak's economic development, with the aim of helping MINTRED transition to renewable energy alternatives, such as hydrogen, carbon capture, utilisation and storage as it takes steps to decarbonise.

The MOU was signed by Tan Wooi Leong, Managing Director of Energy & Industrial, and Global Renewable Lead, SJ, and Timothy Ong Wye Ern, Chief Executive Officer, Invest Sarawak at the Singapore Pavilion that is being convened at the COP28 meeting at Dubai, United Arab Emirates. The MOU reflects the commitment on both sides to pursue net zero goals.

"Sarawak's geography with its rich renewable and natural resources presents renewable energy engineers tremendous opportunities to reimagine a net zero future. SJ is excited to work with the State of Sarawak to maximise the value of decarbonisation across power generation and hard-to-abate sectors, which is increasingly driving the agenda in Sarawak's future economic development and industrial positioning," said Tan Wooi Leong.

"This partnership that is focused on decarbonisation opens up fresh opportunities for Sarawak to attract and sustain a steady flow of investors. That the partnership looks to upskilling talent in renewables certainly bolsters confidence in Sarawak's economic prospects," said Timothy Ong.

Gensler welcomes next generation of firm leadership

San Francisco, USA — On 6 October 2023, Gensler announced that after nearly 20 years of leadership, Andy Cohen and Diane Hoskins will transition from their roles as Co-CEOs to become the firm's first Global Co-Chairs. As part of a planned succession strategy, Cohen and Hoskins welcome a new generation of collaborative leadership, naming Julia Simet and Jordan Goldstein as incoming Co-CEOs to lead the firm's day-to-day operations, effective January 1, 2024.

Goldstein and Simet each bring over 25 years of exceptional leadership to their new roles as Co-CEOs. They currently serve as Co-Firm Managing Principals, splitting responsibility for the firm's U.S. and international regions. As Co-CEOs, they will manage Gensler's day-to-day operations across the firm's 53 global offices and 33 practice areas, oversee more than 3,500 client relationships, promote a culture of diversity and inclusion for over 6,000 Gensler people globally, and maintain the highest level of innovation and design excellence.

"Diane and I are proud to continue the firm's tradition of seamless leadership transitions as we move into our new roles as Global Co-Chairs. Our co-leadership model has been pivotal in the success and organic growth of our firm. We welcome Jordan and Julia into their new positions with full confidence that this next chapter will be the greatest yet," said Cohen. "Together, they will further Gensler's legacy as a self-governing and self-sustaining firm using design to solve the complex challenges our clients face in a radically

changing world."

Gensler's unique collaborative leadership model – with two leaders in most leadership positions across the firm – has helped drive innovation and diverse viewpoints for more than 20 years. This approach has propelled the firm's growth to \$2 billion in revenue and scaled its ability to take on complex design challenges with over 3,500 clients across the globe.

"Design has the power to tackle the world's most pressing challenges. With so much important work before us, this is exactly the right time for the next generation of Gensler leaders to guide the way forward," said Hoskins. "The firm will be in great hands with Jordan and Julia at the helm, stewarding our people-first culture and honoring our clients with the highest levels of design excellence."

"Andy and Diane's co-leadership has ensured Gensler's position as an industry leader," said Simet. "Having worked with them hand-in-hand for more than two decades, I'm honored to continue our firm's strategic vision, broaden our global impact, and lead our culture of connectivity into the next decade alongside Jordan."

"Julia and I will continue to push the limits of visionary design, pursue net-zero projects, and maintain a careful focus on nurturing our global talent," said Goldstein. "Andy and Diane's mentorship has set the tone as we move into the firm's next chapter, working in lockstep with our clients to solve the complex problems of tomorrow."



Gensler's next generation of firm leadership. From left to right: Jordan Goldstein, Julia Simet, Diane Hoskins and Andy Cohen. Photo credit: Gensler

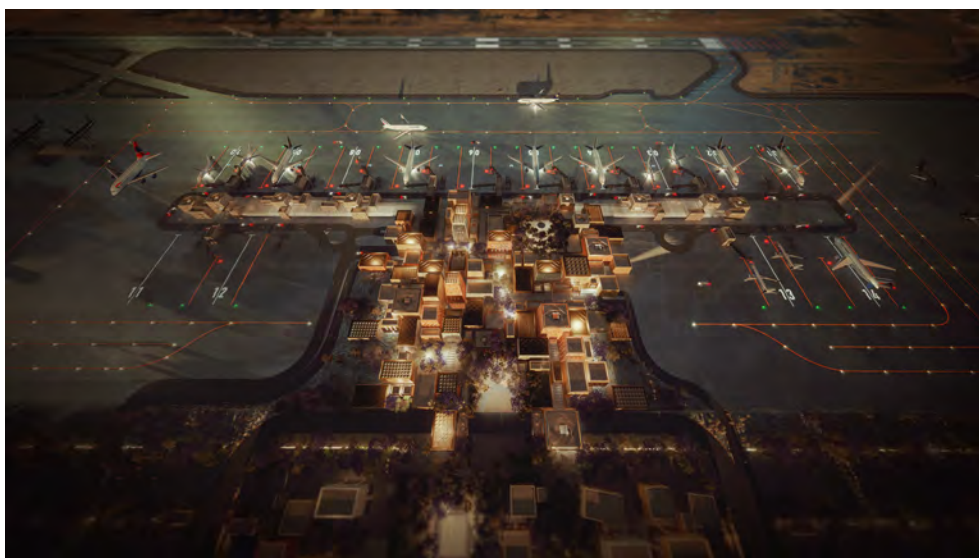
Foster + Partners wins competition to design new Abha Airport terminal

London, UK – Foster + Partners has won an international competition to design a new terminal for Abha Airport in Saudi Arabia's Aseer Region. Inspired by the nearby Rijal Almaa village, the winning design reinvents the airport terminal as a series of interconnected human-scale clusters, outdoor courtyards and walkways. The scheme brings fresh air, greenery and natural light to the experience of travel, transforming the passenger journey and setting a benchmark for this new typology of airport design.

Stefan Behling, Head of Studio, Foster + Partners, said: "Learning from the local vernacular, our terminal guides passengers through a series of inviting human-scale spaces and connects them with green courtyards, which are open to the elements. This is a complete reinvention of the airport as we know it, with an emphasis on traditional Aseeri details, local materials and terraced landscaping. It is both a celebration of – and an introduction to – the beauty of the Aseer Region."

The modular form is arranged in clusters, between the drop off zone and the apron. Buildings are tapered and vary in height to reflect the distinctive architectural character of the region and create different types of functional space. The scheme's modularity makes it extremely flexible, allowing the airport to expand efficiently as demand increases.

The design responds to the region's climate, with massing



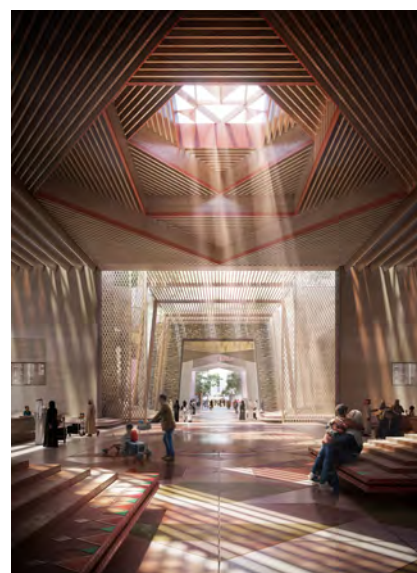
Abha International Airport, KSA, Comp. Copyright holder: Foster + Partners

that takes advantage of prevailing winds to optimise natural ventilation. The solidity of the stone walls and diffused daylighting also contribute to keeping the internal spaces comfortable and cool.

Nikolai Malsch, Senior Partner, Foster + Partners, said: "Buildings open onto landscaped courtyards that are surrounded by retail, restaurants and cafes. Those waiting to board have the option to browse the shops and enjoy refreshments inside the airport or in the open air. Learning from the materiality of the nearby village, rough stone facades contrast with a more colourful and refined interior palette. This anchors the scheme within its context and creates a distinctive gateway to the Aseer Region."



Abha International Airport, KSA, Comp. Copyright holder: Foster + Partners



Abha International Airport, KSA, Comp. Copyright holder: Foster + Partners

Focus on the circular economy: dormakaba receives further product certifications for recycled content



Working closely with dormakaba's global sustainability team, dormakaba Production Singapore were a crucial part of making the new certification a reality. Photo credit: dormakaba

Ruemlang, Switzerland – dormakaba has received further certifications for using recycled materials in its products from the internationally recognised, independent organisation GreenCircle Certified. In doing so, dormakaba is making an important contribution to promoting a circular economy. With the 23 newly issued certificates, dormakaba can now offer its customers product certifications for all door closers manufactured in Singapore, in addition to the 16 certifications already in place since 2021 for door hardware manufactured in the USA.

With the new product certifications for recycled content from GreenCircle Certified, dormakaba is once again demonstrating the success of its sustainability initiatives. GreenCircle Certified is a globally recognised organisation that assesses and certifies sustainability standards for products, services, and operations. Their recycled content certification focuses on verifying and validating the use of recycled materials in products that are critical in reducing waste,



Photo credit: dormakaba

conserving natural resources, and reducing environmental impact. To obtain these product certifications from GreenCircle Certified, dormakaba has provided detailed information on the origin of the recycled materials, the percentage of recycled materials, and the dormakaba manufacturing processes. GreenCircle Certified has carefully checked and validated this information.





Floor spring and door closers produced in Singapore with recycled content certifications including BTS 75V, TS 83, TS 93, TS 73 V and ITS 915. Photo credit: dormakaba

As an industry pioneer, dormakaba continuously integrates the latest product life cycle approaches and environmental technologies to improve its sustainability performance. In 2023, as a first step towards the circular economy, dormakaba committed to using an internally developed "EcoDesign Specification Template" for all new product developments. This template contains guidelines and strict specifications on energy consumption, material selection, longevity/durability, reparability, adaptability, disassembly, and packaging materials.

An overview of dormakaba's sustainability-related product declarations and certifications can be found on the dormakaba website.

"We are delighted about the further GreenCircle Certified certifications. Issuing these certificates for recycled content is an important milestone reflecting dormakaba's commitment to a circular economy. Our customers increasingly request such certificates as they must meet strict requirements for sustainable construction. To continue supporting our customers in achieving their sustainability goals, we regularly evaluate and expand our product-related sustainability information. For example, we want to double our sustainability-related product declarations and certifications to have at least 340 by 2027, including the Cradle to Cradle certifications and certifications for recycled content. We have received over 250 sustainability-related product declarations and certifications to date. This means we are well on the way to covering our entire product portfolio," says Lea Rammelmann, Lead Product Sustainability at dormakaba.



Hamidia Hospital, Bhopal



Bhopal's Hamidia Hospital is one of the oldest hospitals in India, dating back to the 18th-century Fatehgarh Fort premises, located on the banks of the Grand Lake. Over the centuries, the complex has expanded to accommodate the changing, multidisciplinary healthcare needs of the ever growing city. Today, the layers of history – from the ASI-protected Mughal and British-era heritage buildings to the post-independence medical college – present as a palimpsest located at the heart of the city.

When CP Kukreja Architects took on the redevelopment project, many of these historical structures were found in a deplorable state with respect to basic services and living conditions. The adopted design approach attempts to bind the entire complex through a definite grammar, using development as a tool for conservation. The primary challenge in this approach was to curate a development model that prolongs the useful life of the otherwise nearly obsolete complex without greatly altering its cultural fabric.



As the country's healthcare sector seeks avenues for smart development in medical facilities, healthcare architecture is being reimagined to not only take care of the ailing but also contribute to the collective healthcare of the citizens. The Hamidia Hospital Complex has been redeveloped into a world-class health centre through improved facilities, better education on health matters and enhanced access to regular healthcare services. The redevelopment of the Hamidia Hospital Complex envisages the emergence of a "Smart Medi-City" that pertains to the global standards of contemporary hospital designs while retaining its old cultural legacy through a fusion between the old and the new.

Envisioning a Smart Medi-City

Developing a Medi-City revolves around the idea of a holistic approach for addressing the entire hospital complex rather than a singular building. This strategy is realised through two means:

1. Shared Infrastructure Development: Designing the Complex as an Extension of the City

The historically fortified complex no longer needs to be a walled urban element detached from the city but rather be a seamless part of it. The Grand Lake and the lakefront, which were separated from the surrounding by the fort's imposing walls for a long time, must be brought back to the city and its people. To achieve this, the master plan opens the roads running into the complex to make the lakefront a large

continuous public space, thereby creating a public space network as a major structuring element for the new master plan of the Fort Complex.

2. Encouraging the Development of a "City-Within-A-City"

The Hamidia Medi-City contains its own functional districts, public spaces, and a hierarchy of streets that encourage an environment-friendly living through:

- An extensive layout of pedestrian and cycle routes that encourage walking and cycling above vehicular commutes.
- Maximised provision of greenery and open spaces to encourage the natural landscape to become an integral part of the public realm.
- Reduction of pollution in the environment through extensive plantation, which helps the absorption of pollutants to a large



- extent, thereby keeping the air fresh and the local climate under control.
- Blurring boundaries between the interior and exterior spaces and creating recreational spaces at different levels to encourage outdoor activities.
- Encouraging nature as a healing element within the urban landscape.

Redefining Medical Infrastructure as Quintessential Building Blocks of a Healthy City

The Hamidia Hospital Complex is imagined as more than an urban infrastructure that serves the ailing. It is designed as an urban unit that also exemplifies healthy living conditions within the city. Such design measures include:

- Compact Development, i.e. keeping the building footprint as low as possible, leaving the maximum ground as a soft landscape.
- Incorporating passive design to minimise air-conditioning and other artificial mechanical controls, which often cause 'sick-building syndrome.'
- Using non-polluting and non-hazardous building materials for construction so as to cause minimum damage to the environment.
- Formulating urban design guidelines for the complex that ensure continued maintenance of the public spaces.

Responsive Architecture: Designing the Complex as an Amalgamation of Nature and Engineered Technologies

The geographical setting of the complex plays a crucial role in defining the sustainability parameters of the Smart



Medi-City. In response to the context, the design uses the existing social and environmental systems as major structuring elements on site. This is further reinforced with engineered technologies to allow the architecture of the complex to maximise its performance. In doing so, this design celebrates the fusion between natural and man-made technologies – a much-desired binary which the future of sustainable architecture beckons.

While the heritage structures were given new life through retrofitting and adaptive reuse, both the new and old structures are infused with state-of-the-art technology to serve the coming generations. The design also seeks contemporary metaphors for the age-old architectural details so as to blend them effortlessly into the modern, smart

architectural vocabulary.

The Hamidia Medi-City exists amidst an urban fabric that spans a wide time frame, with various social characteristics and cultural ethos defining the complex's morphology and its transformations. With the latest developments and rethinking of the historical structures, Hamidia is a magnet serving not just Bhopal's population but also the surrounding towns and villages. The project hereby throws light on one of the most difficult concerns in the contemporary urbanisation of Indian cities, which deals with incorporating modern infrastructure in a timeless urban landscape composed of multiple layers of culture.

PROJECT DETAILS

PROJECT NAME: Hamidia Hospital, Bhopal

PROJECT LOCATION: Bhopal, Madhya Pradesh, India

ARCHITECT: CP Kukreja Architects

CLIENT: PWD Bhopal

SITE AREA: 38 acres

BUILT-UP AREA: 151,768 square metres

START DATE: 24 December 2014

COMPLETION DATE: July 2020

PHOTOGRAPHER: Kapil Kamra





Weng's Factory / Co-Working Space



WENG's Factory was a wooden lathe factory that had been in operation for generations, from his father to the current owner. The structure, however, was deteriorating with time, and its purposes have evolved in accordance with the changing way of life. The factory has now been turned into a co-working space, complete with a coffee shop, meeting areas, and timber workshops while retaining the original architectural sense of being a father's wooden lathe soul.

The owner expressed his intention of turning this factory into a local community space. Still, it needed renovation, including building modifications to solve water leakage, stagnant water, and decaying structures. Architect Nonsense has presented refurbishment design concepts and modification plans to revive this factory and tell its new story.

The architects proposed employing the original architectural elements and manufacturing equipment found in the factory



to connect the past to the present. The existing design elements, as discovered during site inspections, appeal as its internal double space, adjustable timber façades, wooden truss structure, hardwood walls, and wooden joint constructions.

Metal casting molds, pulleys for lathes, insulator wires, and abdominal roofing plates are architectural embellishments that have been identified as design tools to recreate the ambiance and functionality of the factory. To maximise the user experience, architects redesigned the building's boundary, used natural lights, arranged visible axials, and managed ventilation.

The two sides of the wall were moved inward to make the eaves align with the existing plane. As a result, it increased the corridor spaces for side circulations and protection from rain and sunlight.

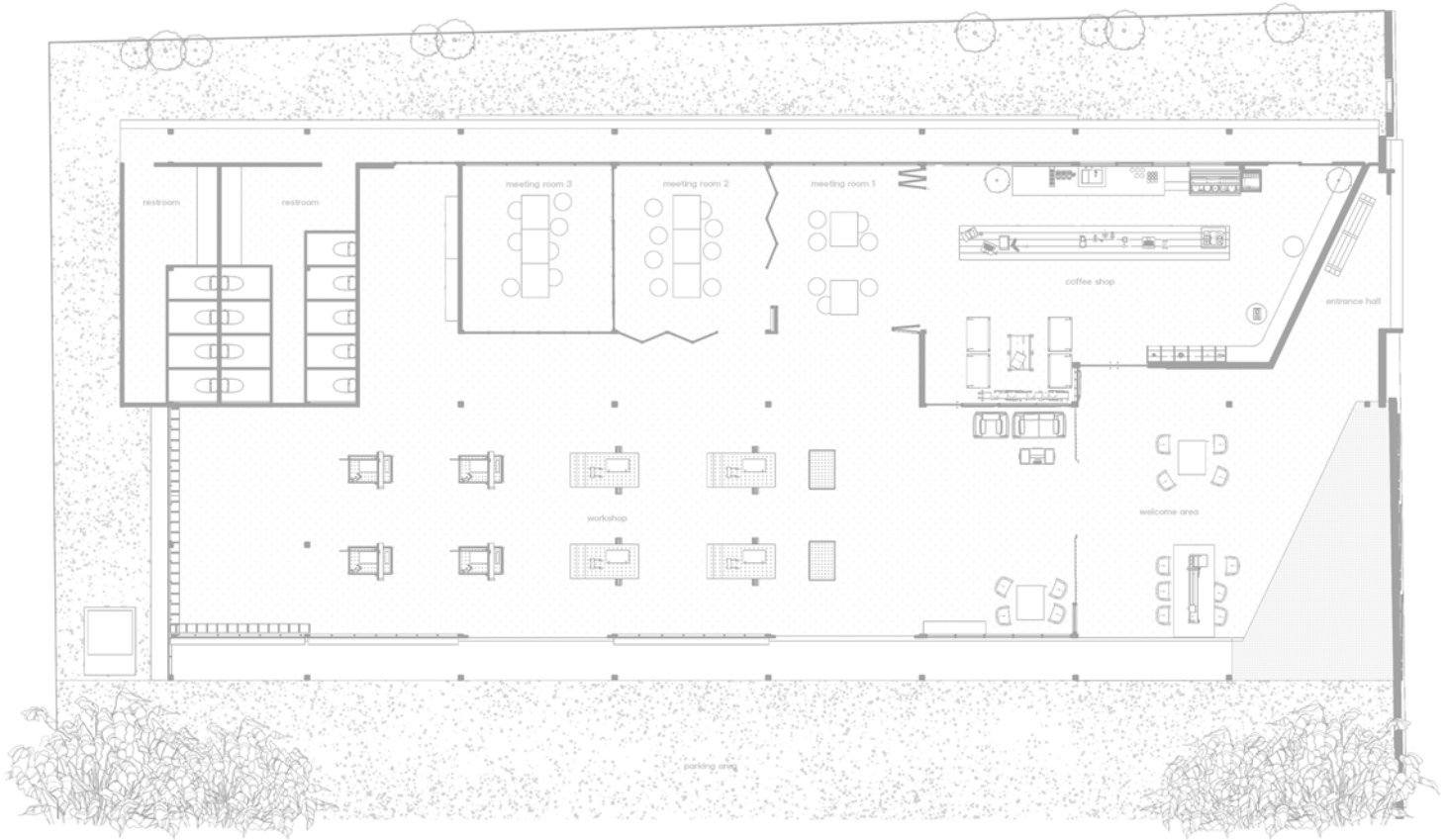
The skylight roofs were also introduced in the structure to draw natural light in the daytime. Moreover, the opening space at the entrance is

allocated for future adaptation or further usage.

In terms of user experience, the architectural design welcomes visitors with an arrangement of steel plates and manufactured objects, as well as lighting gradients that transition from darker to brighter exposure upon entry. The open hall exhibits a wooden lathe factory with tools that were formerly used in the factory; some of these components may or may not still function. This architectural sequence reflects the history of the factory through the building access journey.

The coffee shop inside the factory was designed with an arrangement of pulleys to construct the bar's foundation. The





Floor plan. Drawing: Architect Nonsense

12-metre-long hardwood that was collected in the factory was used to build the main bar. The rear wooden wall was replaced with mirrors to improve indirect lighting and allow more natural light to enter. The exhaust fans were hidden in the upper walls to provide ventilation and cooling. Additionally, a large opening at the garage and big trees on the site provide significant shadow and depth of lighting on the renovated wooden façade.

In conclusion, the project solved multidimensional problems by reviving the factory through architectural design. The design is based on the discovered elements in the site to embrace the truth of materials and the originality of the factory. It is the place that blends the new functionality to fulfill the new requirements with the honest intention to live with the community.

PROJECT DETAILS

PROJECT NAME: Weng's Factory / Co-Working Space

PROJECT LOCATION: Lamlukka, Pathumthani, Thailand

CLIENT: Mr. Piyawat Jirateanthum

ARCHITECT FIRM: Architect Nonsense

GROSS BUILT AREA: 750 square metres

COMPLETION: 2023

PHOTO CREDITS: Kunakorn Teeratitham





The Factory



The Factory is claimed to be the first reconversion of industrial heritage for cultural purpose in Phnom Penh, Cambodia.

BLOOM Architecture designed the guidelines for the conversion of garment factories from the 60s into a new social hub to house cultural and events spaces for the youth of Phnom Penh. The concept is based on the found industrial space, it is kept intentionally bare, like a blank canvas capable of adapting to its user's creativity. A coworking space and café

served as a prototype for BLOOM to establish the guidelines for the development.

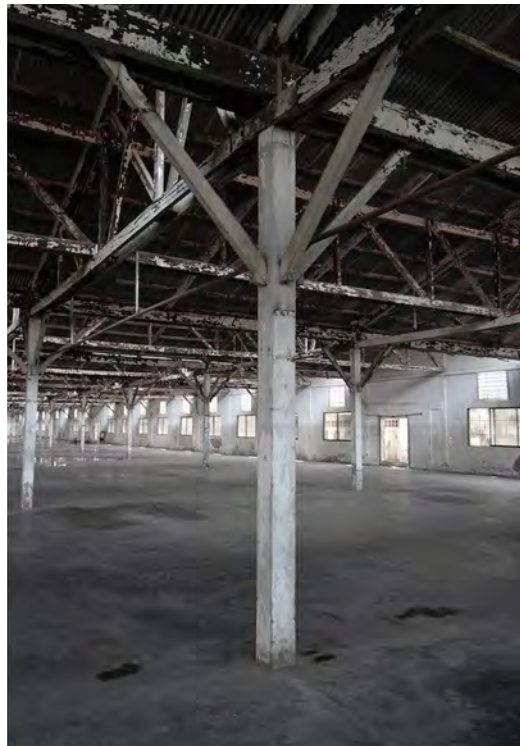
A superimposition of another design layer would have been an injustice to the potential of existing elements. Hence, retaining the look and feel of a shed that the structure inherently possessed, BLOOM exposed the refined existing hardwood structure and used an industrial material selection to express the spatial qualities of the main shed. The craftsmanship of concrete, cement blocks, cement tiles



and corrugated steel sheets compose a radical space. Freedom is provided by the industrial workshop remains. It is an unstandardized space which had every single detail solved on site by the architects. Repurposing an industrial space of that scale in Cambodia was a first of its kind.

The design layer added by BLOOM is there only to cover the operational needs and to emphasize the atmosphere of the found space turned into a maker's space. For instance, the sewing hall was repurposed for coworking space, due to its size and the fact the existing roof allowed the space under it to be naturally lit and ventilated, it was used for housing the common areas. By creating adaptable yet inexpensive spaces, BLOOM allows for uses which would otherwise be difficult to be curated in a more standardised space. This was a hands-on project where





we were largely required on site to work hand in hand with the builders in order to build something unique within a very tight timeframe. The project stands as an instance for the Cambodian youth to invent a creative new future within the old buildings. BLOOM hopes the project inspires its users to invent within its spaces an understanding of places with innovation while they enjoy the freedom and possibilities the very open setup of The Factory offers to them.



PROJECT DETAILS

PROJECT NAME: The Factory

PROJECT LOCATION: Phnom Penh, Cambodia

BUILDER: Urban Cambo Builder Co. Ltd.

ARCHITECT: BLOOM Architecture

GROSS FLOOR AREA: 7,420 square metres within a 5-hectares land plot

LIGHTING DESIGNER: Lutz Madstadt / LK lighting

ARTISAN WORKERS OF TIMBER AND FURNITURES: Tommy / PI SOR

PHOTOGRAPHER: Antoine Raab, Nataly Lee, Bloom Architecture



The Cocoa Project



T3 ARCHITECTS has designed the first "The Cocoa Project" in Saigon, a friendly and airy space bringing together sustainable architecture and sustainably sourced cacao trace chocolate.

The main design intention of T3 team was to recover the existing modernist Villa from the 50's and give it a second life dedicated to the Cocoa & Pastry. A place for Vietnamese, to reconnect with their heritage and to realise the quality of their cocoa produced in Mekong Delta. This elegant villa was

totally invisible when we started the design, as decades of ugly industrial finishing materials were covering all walls, ceiling, facades. The place was totally dark and sad. T3 decided to remove a part of the roof and to break some concrete slabs to create a tropical garden, to bring natural light in all the building, and to highlight the architectural elements typical from this period. It is more an "archeological" mission than an architecture and interior design mission. The beauty was there. T3 and the Cocoa Project Team and all partners involved in

the project gave all their effort to rediscover and create a peaceful place in the hearth of Saigon.

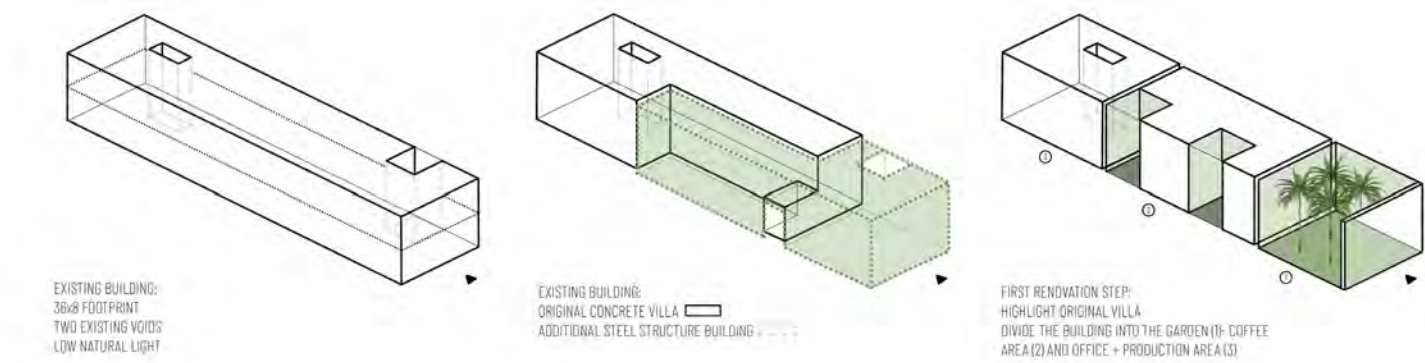
When T3 team first visited the place, they saw a nice staircase in terrazzo, as well as some cornices on the ceiling, both typical from the modernist period. They proceeded step by step, removing layer after layer, discovering old handrails, vertical concrete louvers, old layers of lime painting. And they decided to preserve all to suggest the past and the history of Saigon.

T3 did the choice to preserve a part of the existing street Facade, after removing all finishing, to create a kind of acoustic protection and offer a quiet garden for the coffee shop, insulated from the street's noise. The tropical garden was inspired by the plantations of the farmers of Mekong Delta. The T3 team specified some typical palm trees from South Vietnam as well as a very nice and productive Cocoa Tree, as a symbol. Some additional plants will cover the walls soon and bring freshness, without requiring any important maintenance; as T3 always consider to reduce water consumption.

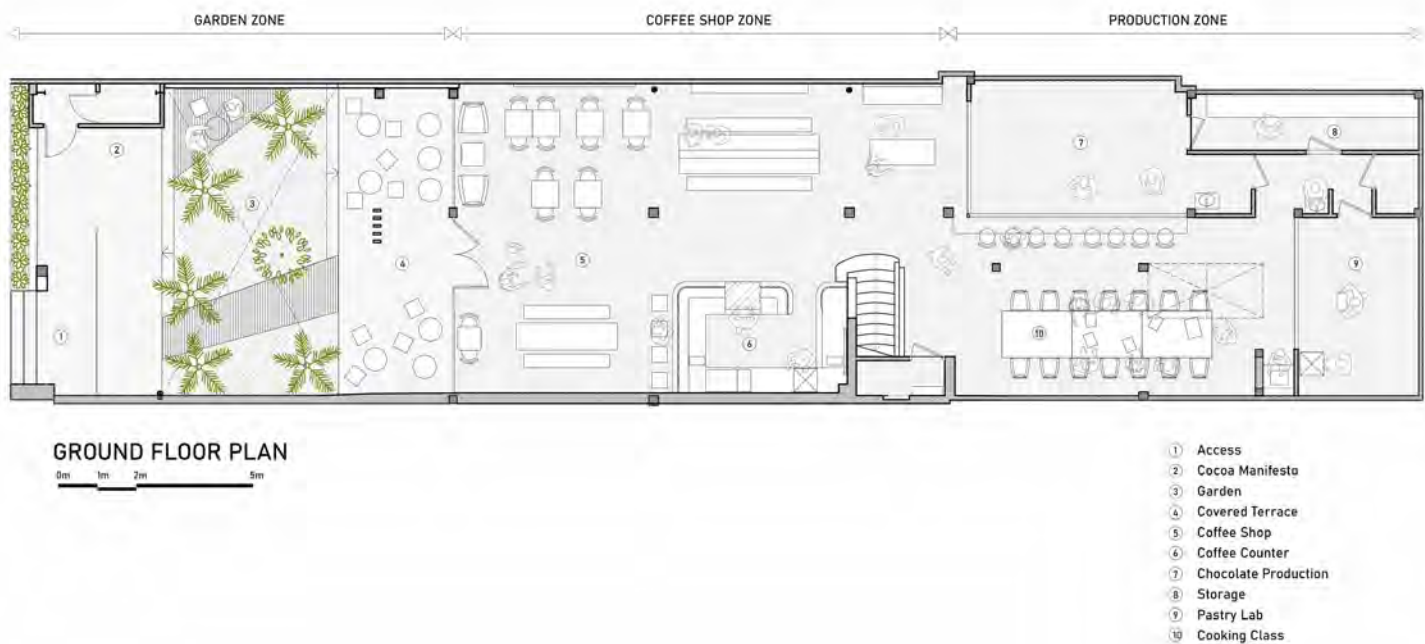


More generally, T3 intention was to make this project as sustainable as possible, first by preserving the main structure of the existing buildings (always better than demolishing and rebuild). Then, T3 has reduced the number of new materials as much





The Cocoa Project concept diagram.



The Cocoa Project ground floor plan.

as possible. All of them are sourced and produced in Vietnam, to avoid unnecessary transportation costs and pollution. Finally, T3 specified natural or low carbon materials as much as possible to ensure a proper air quality (zero chemical): non cooked local cement tiles, solid wood for all furniture, knowing that a large part are antic furniture, lime painting, etc. The bar counter and mirror frames have been tailor-made by T3, using materials composed by recycled tetra packs & plastic produced by their friends from Plastic People.

The Cocoa Project is really a manifesto of the Vietnamese Heritage regeneration, following a happy and creative frugal approach.

PROJECT DETAILS

PROJECT NAME: The Cocoa Project

PROJECT LOCATION: Saigon (Ho Chi Minh), Vietnam

CLIENT: Grand Place Holding

ARCHITECT: T3 Architects (Vietnam) & KANOPEA Architecture Studio (France)

COLLABORATION WITH MAIN CONTRACTOR: P.I. Architects

GROSS FLOOR AREA: 450 square metres

COMPLETION: 2022

DRAWING CREDIT: T3 Architects and KANOPEA Architecture Studio

PHOTOGRAPHER: Hiroyuki OKI



Shanghai American School

The Shanghai American School for Children of Foreign Personnel (SAS) is one of the most prestigious international schools in Asia attended by over 2,000 students.

Project Name: Shanghai American School (SAS)

Project Location: Pudong, Shanghai (PRC)

Period Of Renovation: 2017

Intervention By Mapei:
Supplying products to lay cementitious floors

Owner: SAS
FLOORING CONTRACTOR:
Shanghai Pingsheng Engineering Technology Co., Ltd

Mapei Coordinator: Peter Liu, Mapei Construction Materials (Guangzhou) Co. Ltd. (PRC)

Photos: Provided by Mapei

Resistant cementitious floors for students from 44 countries.

The Shanghai American School for Children of Foreign Personnel (SAS) is the largest in China and one of the most prestigious international schools in Asia. It was founded by the American Consulate on September the 17th, 1912, less than a year after the fall of the Qing Dynasty, the last imperial dynasty in China. It was attended by 38 students and located in Shanghai's Hongkou neighbourhood, a district just north of the Bund that had long served as a popular home of American expats. In 1923, SAS opened a new campus location at 10 Hengshan Lu in a Victorian-style administration building.

In 1950, Shanghai closed to foreign-owned businesses and SAS students took a 30-year recess. In 1980 SAS was re-founded and a new space for it was completed on the grounds of the U.S. Consulate.

The 1990s saw a jaw-dropping building boom and, once again, both Shanghai and SAS were in lock-step. At SAS, the decade began with the school sharing space with the famous Shanghai Girls No. 3 School before outgrowing its facilities.

At the start of the new century, Shanghai American School had built not one home but two campuses, in Puxi and Pudong. Both have experienced major additions ever since. This growth echoed the expansion of Shanghai itself. Today the over 2,000 students attending the school come from 44 countries and regions, including kindergartens, elementary schools, junior high schools, and high schools.

109 years after the first school bell rang, Shanghai American School remains a reflection of both its American roots and Shanghai location.

New floors for the SAS campus in Pudong

SAS shares Shanghai's drive towards innovation, as seen by tech-forward learning spaces such as its maker spaces and design studios, and by Signature Programs



The cementitious floors were completed with the ULTRATOP system, which involved the use of PRIMER SN, ULTRATOP, and MAPEFLOOR FINISH 58 W.

such as the Innovation Institute.

To ensure the ideal conditions for education activities and the wellbeing of students, teaching staff and employees, the floors of several areas (offices, common rooms, classrooms) were recently renovated in the school campus in Pudong for a total surface area of 1000 cubic metres.

To guarantee abrasion-resistant floors and perfectly flat surfaces with a high aesthetic impact the ULTRATOP system was chosen. This system is particularly recommended for internal floors in industrial facilities (including areas used for storage), shopping centres, and restaurants as well as schools or areas subjected to intense foot traffic.

The system included the use of PRIMER SN, two-component fillerized epoxy primer, which was specifically formulated to carry out preliminary

priming treatments on substrates before applying self-levelling cementitious mortars from the ULTRATOP range and epoxy and polyurethane resin systems from the MAPEFLOOR range. While still fresh, the layer of PRIMER SN was fully blinded with QUARTZ 1.2. Once the primer had hardened, the excess of quartz was removed and the surface was lightly sanded to eliminate loose residues of quartz sand.

ULTRATOP, ultra-fast setting, self-levelling mortar based on special hydraulic binders, was then applied on the surfaces, before finishing them with MAPEFLOOR FINISH 58 W, a two-component, aliphatic polyurethane coating product in water dispersion. MAPEFLOOR FINISH 58 W improves the surface resistance to wear and scratches while limiting the absorption of liquids.

Mapei Products

Preparing substrates: Primer SN

Laying cementitious floors: Ultratop, Mapefloor Finish 58 W

(Some products mentioned in this article are also available from Mapei Singapore. For further information on products, contact our customer service or visit mapei.com/sg)

Article Source: Realta Mapei International 89/2021



Zi Ling Changxing Kindergarten

Reception area

Project Name:
Zi Ling Changxing
Kindergarten

Project Location:
Huzhou, China

Project Area:
12,800 square metres

Design Company:
X+Living

Chief Designer:
Li Xiang

Completion:
August 2021

Photo:
Jieyi Architecture
Photography

Zi Ling Changxing Kindergarten is positioned as a full-time private kindergarten under Zi Ling Education Group. Zi Ling Education upholds the idea of returning education to its essence, and strives to build a platform for children to grow up naturally, independently and freely. In this project, the brand put forward the vision of "moving the universe into kindergarten". Based on that, the

designer, X+Living interpreted with the concept of "Knowing by Seeing", which depicts the brand story with the visual language, atmosphere shaping and spatial experience, and presented the brand's idea of cultivation and development.

A Museum in Clouds

Museum, as an architectural symbol, first jumps into the designer's mind,



Auditorium



Classroom



Mini City (game room)

but the designer needs to consider how to make perfect grafting with the preschool education space. By extracting the divinity from the architectural forms of museum and utilising the similar structure, the designer is able to arouse the first visitors' emotion, and thus the sanctity of education is obviously unveiled. In order to provide children with a dreamy space, under the objective condition that the architectural structure could not be changed, the designer independently transformed the facade, ceiling and interior floor, making the space modeling shapes like soft and

puffy clouds. In the white and dreamy clouds, a school full of love and freedom is gently wrapped. It is a "museum" dedicated by the designer to children.

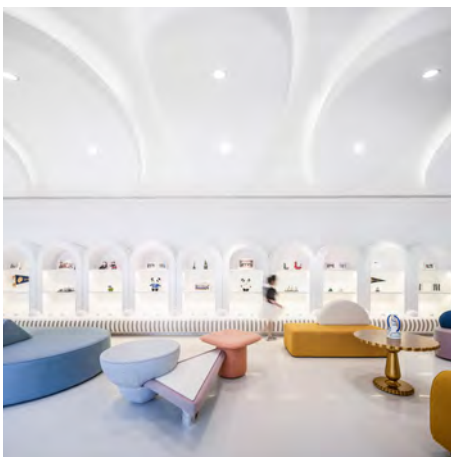
The designer makes great use of smiling curves in line with actual conditions and outlines the soft shape of clouds in the space, while at the same time, also draws inspirations from architect Antoni Gaudí with fine depiction of the details to render a ceremonial grand feeling as the trigger for children's imagination.

The auditorium is also full of fairy-tale vibe. The spherical ceiling and the white background foil the solemn environment. Lighting up the background lights, the seats with gradient colours render beautiful glows, making the whole space looks gently beautiful. Children seem to be wrapped in the blooming flowers, like smart and adorable butterflies.

The large area of white space allows natural connection between different areas as a whole. The harmonious match of cool and warm colors in details meets the needs of different regional attributes, and at the same time, exercises children's observation ability and enriches visual appreciation. The embellishment of brand colour makes children enhance their affinity for the

brand in daily edification. The project has not adopted dazzlingly bright colours, in an effort to avoid creating distraction and highlight the children and their creations as the core of the venue.

To create a space accompanying child for several years, the design should be of less intervention without forming a clear style. More attention should be paid to create experiences full of psychological hints, so that children could wander and run aimlessly and build up emotional connections with the space which eventually become warm memories. Thus the space itself, turns out to be a dream woven by the designer existing in the children's spirit world transmitting positive energy in their lives.



International Exchange Center



Corridor (with leisure seatings along the wall)



The South View School

Project Name:
The South View School

Project Location: Remraam,
Dubai, UAE

Programme:
K-12 British Curriculum
School

Client:
Interstar Advisory

Architect:
r+d Studio

Site Area:
4.8 acres

Built-Up Area:
135,000 square feet

Completion:
2021

Photography:
Beno Saradzie

An institution housed to nurture and educate young minds planned as a perfect blend of rationale planning and aspirational design, creating a landmark within the Dubai school community. As a coalescence of different building blocks,

the K12 school is designed around the concept of conjoining engineering and architecture, while keeping its context in the highest regard.

With an intention of building a sanctum for the kids, South View School exhibits statuesque, fortified walls that are





punctured by a narrow alley that reflect the fort city streetscape meeting at intersections which are the lungs of the settlement. As one enters through the slender pathway, they are met with a voluminous premise, where the building introduces an illustrious courtyard, symbolic to a city square. Integrated with recreational and interactive zones, this expansive courtyard then paves way into the various functionalities of the school but also acts as the heart and soul of the kid's alma mater. Keeping up with the standard functionality of an institutional space, the studio took a call to romanticize the building's central core and to amplify its individuality by highlighting its form. Standing tall with its mighty facade and its majestic courtyard, the building proffers a nod to UAE Fort's emblematic architecture.

The design of the school is fundamentally governed by a perceptive,

utilitarian way of planning, tailored as per the needs of a K12 institute. Various functions of the school are separated into different levels, to create a programmatic and zonal division. These levels are then connected through an array of open to sky courts, so as to promote spatial and visual interaction between the kids, an essential part of the school. The kindergarten is placed at the base level, next to a recreation zone complete with an amphitheatre and a play area, to make the most of the vast landscape for the younger children. The upper floors provide a sanctuary for the older students, further diverging into two wings that are reminiscent of a sapling branching its way out. These branches at the topmost floor are connected by a strategically placed library, suggestive of the importance of a centrally placed, soaring temple that houses endless knowledge. Worthy of

note, this programmatic way of planning is also exhibited through the facade, where each scholarly function displays a different design of fenestration, and ends up creating a truly compelling facade.

The construction of the South View School creates a euphonious blend of contemporary and traditional architecture, as the building flaunts a modern precast structure, constructed in just a matter of six months, wrapped in the ancestral Saudi stone. The planning exhibits a more conventional approach, mainly by the use of its courtyard, that helps in the formation of a suitable microclimate allows for the use of Mashrabias, a type of screening device ornamented with latticework, that enclose the windows and bring in filtered air and daylight. A striking envelope is created over the structure, through the use of pergolas and tensile canopies that cover its multiple layers. These canopies, flaming yellow in colour, along with the building's carefully carved massing, bring in rays of natural light that makes the space come alive through a dynamic play of sunshine and shadow. Lined with the many courts and canopies at the terrace, the architecture creates its first line of defense against the dusty winds of Remraam.

In line with the studio's philosophy of creating impactful interventions that initiate the betterment of our environment, South View School is a study in the concept of 'contextual awareness'. Contrary to the belief of using a modern material palette for a contemporary building, the design provides a mindful balance between the old and the new, and does not alienate the experience of its local environment.



Interview with Union Power Pte Ltd

Q: Tell us a bit about your company and the products & services that it provides?

A: Union is a homegrown EMA-licensed retailer that has powered over 20,000 homes and businesses across Singapore to date.

In September 2020, Union expanded their house of brands to include Union Solar, a total energy solutions company specialising in solarising rooftops of residential and commercial buildings, to spearhead the group's vision toward sustainability and as part of the next phase of growth to be a solutions provider.

Offering customised solutions to solarise the rooftop of commercial, industrial, and residential properties, Union Solar aims to empower consumers to embrace renewable energy in their daily lives, cater to the rise of eco-friendly consumers, and enable businesses to manage energy costs in a fuss free manner.

Aligning with Singapore's Green Plan 2023, we are committed to tackling current issues such as climate change and global warming.

We have taken the first step towards Singapore's clean energy goals by transforming our building into a net-positive energy building. This makes it possible for us to stay true to our mission of delivering sustainable and innovative energy solutions.

Q: In your opinion, what is the current outlook for solar energy in Asia?

A: The solar energy sector in Asia has been experiencing significant growth in recent years. Many countries in the region, such as China, India, Japan, and South Korea, have all been investing heavily in solar energy infrastructure.

When looking at some key trends shaping the renewable energy space and solar energy in Asia, we are seeing an increasing consciousness and demand for sustainable products.

– According to Nielsen's Global Sustainable Shoppers Report, 74 percent of respondents in Singapore were willing to pay more for sustainable products in 2020, up from 62 percent in 2019.

– Witnessing this consensus amongst consumers and businesses, Union decided to venture into the renewable energy



Solar PV system installation at Bloomsville Investments in Singapore – a project by Union.

space. Union has partnered with companies and organisations who too feel strongly about sustainability to make an even greater impact. These partnerships also include:

- (1) Eu Yan Sang (EYS): EYS is an established global retail brand with retail presence in Singapore, Malaysia, and Hong Kong. Working with EYS to install solar panels in their HQ located at Tai Seng with a 20-year Solar PPA in place to install a PV capacity of 156.1kWp on their rooftop. Collaboration with EYS further strengthens the track record of Union Solar as an enterprising solar developer and asset owner to support businesses in their energy transition journey.
- (2) Hao Mart: Powering its mega warehouse outlet and close to 50 retail outlets across Singapore comes at a hefty cost, especially its electricity bill. Spike in electricity costs for such businesses, no matter how big or small, can be a real bane as it could wipe out any profit and even result in losses. With a renewable electricity contract in place, Hao Mart can be sustainable in their operations and reduce costs associated with running its warehouse facilities at a high energy consumption rate.

"When looking at some key trends shaping the renewable energy space and solar energy in Asia, we are seeing an increasing consciousness and demand for sustainable products." – Ellen Teo

With this in mind, the integration of energy storage solutions, such as batteries, with solar power systems is becoming more important. This helps address the intermittent nature of solar energy generation and ensures a more reliable power supply.

– The COVID-19 pandemic exposed the fragility of the world's supply chains and created a cascade of rising prices and product shortages, causing many companies to bring their manufacturing back locally to ease supply chain issues.

– A significant trend in the renewable energy sector is finding a way to store excess power when conditions are suitable for production. Many companies have entered the power grid energy storage industry to try to solve this problem.

– Union joined hands recently with TES – a global leader in sustainable technology services and solutions with a keen focus in e-waste recycling and waste material management.

– To collaborate on renewable energy solutions in the region.

– How it works:

- (1) TES supplying repurposed energy storage from used batteries e.g., EV batteries and deploying them as grid solar storage.
- (2) Union Solar, as the solar developer and system integrator, integrates the repurposed energy storage, solar PV system and EV charging, pushing businesses to make the shift to clean energy.



Solar PV system installation at Union Gas Holdings in Singapore – a project by Union.

Singapore, which has housed many high-rise buildings, installing solar panels on the rooftop may not be a viable option. Instead, harvesting solar energy via solar cladding from the building's vertical façade space is a more cost-effective and sustainable solution. At Union, we are continually investing and keeping up with the latest technology to provide solutions that are accessible to our clients and consumers.



Ellen Teo, CEO, Union Power Pte Ltd.

Q: What are the challenges facing the solar energy industry players in Asia?

A: The solar energy industry in Asia faces a myriad of challenges, hindering its full potential despite the region's abundant renewable resources. One significant obstacle lies in the uncertainty surrounding policy and investment frameworks, impeding the development of renewable projects.

For example, despite Vietnam boasting one of Southeast Asia's most favourable wind resources and signalling a prospective uptick in the incorporation of renewables within its Power Development Plan, the release of this strategic blueprint has faced delays.

Moreover, the prevailing notion that fossil fuels will continue to play an important role in economic development for the foreseeable future adds another layer of complexity. Inflexible power purchase agreements have entrenched reliance on fossil fuel-based electricity sources, creating a substantial hurdle for investment in renewable initiatives.

Financial considerations also further compound the challenges. Despite a global trend of declining technology costs for renewables, the capital expenditure requirements for utility-scale solar PV and wind projects in certain Asian countries, such as Indonesia, remain disproportionately high compared to counterparts like China or India.

The lack of scale in deployment, under-developed supply chains, and stringent domestic content requirements all contribute to inflated project costs.

Despite notable challenges facing solar energy players in Asia, the region continues to stand as a promising hub for future advancements and investments in solar technology.

(References from: https://iea.blob.core.windows.net/assets/057bafda-0c09-40fe-934c-4f2fe5e080f4/ASEANRenewables_InvestmentOpportunitiesandChallenges.pdf)

Interview with Plus Xnergy Holding Sdn. Bhd.

Q: Tell us a bit about your company and the products & services that it provides?

A: Plus Xnergy is a company that devotes itself through providing solutions in line with the Energy Trilogy, which consists of Energy Generation, Energy Efficiency and Energy Storage, as a role of asset investor and EPC who build solar power plant, and solar roof top solution to home, commercial and Industrial market.

The business prolongs its commitment to reinventing energy with business entities that provide turnkey solar solution services for the commercial and industrial segment and to go beyond solar by exploring battery storage, one to provide retail solutions for consumers through Malaysia's first diversified solar financing options solar programme, another to provide smart energy solutions, as well as an asset management company to develop assets within and beyond Malaysia.

Collectively, Plus Xnergy has generated energy savings over 1,700 GWh from clean energy and smart energy solutions that span 50+ industries.

Outfitting clean energy solutions for businesses and consumers all over Malaysia, the business has achieved a track record of outfitting over 304 MWp of grid-connected solar photovoltaic (PV) system solutions for notable clients such as BOH Tea, IKEA, Asadi, Spritzer, Secret Recipe, Sunway, DHL Express, Sony, Quayside Mall, Mah Sing Plastics and more.

Q: In your opinion, what is the current outlook for solar energy in Asia?

A: Solar energy is booming in Asia Countries as the following factors below.



Mah Sing Plastics Industries in Selangor – a project by Plus Xnergy.

1. Government Policies and Investments: Many Asia countries have made the commitment to increase their renewable energy capacity as part of their climate change mitigation efforts. Several governments in the region had set ambitious targets and implemented supportive policies, such as feed-in tariffs, tax incentives, and renewable energy auctions, to encourage the development of renewable energy projects. One of the key highlights is cross-country energy export policy and activities, as well as the potential of building the ASEAN grid.

2. Technological Advancements

and Stability: Renewable energy sources were becoming more economical and efficient due to advancements in solar technology. This was the main factor behind the region's adoption of renewable energy. BESS (Battery Energy Storage System) solution for utility-scale and Commercial and industrial (C&I) scale will play an important role while the national grid from each country needs more stability with huge RE energy injected into the grid. We are thrilled to take the lead in promoting the region's adoption of BESS technological engineering.

3. Private Sector Participation:

"Renewable energy sources were becoming more economical and efficient due to advancements in solar technology." – Mr. Ko Chuan Zhen

There was increased involvement from private sector companies, both domestic and international, in investing in renewable energy projects in Asia. This participation was helping to accelerate the deployment of renewable energy infrastructure.

4. Energy Security and Economic Benefits:

Many countries in Asia were recognizing the importance of renewable energy in enhancing energy security by reducing dependence on fossil fuel imports. Additionally, the renewable energy sector was seen as a potential source of job creation and economic growth.

5. Challenges and Opportunities:

Despite the positive outlook, challenges such as intermittency issues with some renewable sources and the need for grid modernisation were present. However, these challenges also presented opportunities for innovation and investment in energy storage technologies and grid infrastructure.

Q: What are the challenges facing the solar energy industry players in Asia?

A: Here are the challenges.

1. Streamlining Policy and Regulation:

Despite the fact that each country has a long-term strategy for achieving the Net Zero target, the real key is the implementation plan from government policy and regulation. However, a few countries are still facing the challenge of streamlining policies, including subsidies, tariffs, and regulations, which can significantly impact the solar industry. If policy and regulatory streamlining are present, it would be able to accelerate the energy transition in the region.

2. Grid Integration and Infrastructure:

The intermittency of solar power generation necessitates efficient grid infrastructure and energy storage solutions for efficient integration into the existing grid. In some areas, the grid might not be equipped to handle the variability of solar



Mr. Ko Chuan Zhen, Group CEO, Plus Xnergy Holding Sdn Bhd

energy generation, and grid stability is the biggest concern in the region.

3. Competitive Pricing and Market Saturation:

Despite the decreasing costs of solar technology, competition and pricing pressures remain a challenge for solar energy players. Market saturation in some regions can lead to lower profit margins. The industry also looking for more competitive pricing for battery storage, so we are aiming for grid parity for both solar and battery storage together.

4. Land Use and Environmental Concerns:

Large-scale solar projects may face opposition due to concerns about land use, environmental impacts, and disruption of ecosystems. Balancing renewable energy development with environmental conservation is a significant challenge.

5. Technology and Innovation:

Continued innovation and technological advancements are essential to improving the efficiency and cost-effectiveness of solar energy. Staying competitive requires ongoing research and development, which can be resource intensive.



IKEA and Ikano Toppen Shopping Mall in Johor – a project by Plus Xnergy.

Committed To Building Outstanding Quality Developments

GuocoLand is a leading real estate group focused on its twin engines of growth in property investment and property development with a strong presence in Singapore, China and Malaysia.

In 2023, GuocoLand bagged numerous accolades at various industry awards. The group took top honours as Best Developer in Asia at the 18th PropertyGuru Asia Property Awards, its third win in the last seven editions of the Awards. In Singapore, GuocoLand was recognised in 14 award categories at other industry awards and The Edge Singapore Billion Dollar Club Awards.

In this issue, **Dora Chng**, Residential Director of GuocoLand, outlines the company's strategy and future plans.

Q: Tell us about your role in GuocoLand.

A: As Residential Director at GuocoLand, my role is centred around conceptualising and implementing strategies for our property development business – from site evaluation and land acquisition to transforming these sites into high-quality residential developments.

With over two decades of experience in real estate, particularly in sales, marketing, and leasing of residential properties, my team and I have successfully launched several award-winning projects like Wallich Residence, Martin Modern, Midtown Modern and Lentor Modern.

We are committed to building outstanding quality developments that uplift and rejuvenate districts for the broader community. Several of our residential properties are part of our integrated mixed-use developments, like Wallich Residence at Guoco Tower, Midtown Modern and Midtown Bay at Guoco Midtown, and Lentor Modern, which reflect GuocoLand's dedication to designing spaces for modern luxury living.

Q: Can you give us a brief history of GuocoLand?

A: First incorporated in 1976, GuocoLand became a listed company in 1978. We have been pivotal in transforming Singapore's built environment with our residential and integrated mixed-use developments. We are proud to have been integral in transforming the Tanjong Pagar neighbourhood with the completion of Guoco Tower in 2016 – a landmark that stands as Singapore's tallest skyscraper and has redefined the district as a distinguished business and lifestyle destination.



Dora Chng, Residential Director, GuocoLand. Photo credit: 99.co

"When we design our developments, whether they are residential, commercial or integrated projects, we always adopt a user-centric approach." – Dora Chng

In the residential sector, our Modern series – including Martin Modern, Midtown Modern and Lentor Modern, reflects our commitment to modern, luxurious living experiences that support wellness through biophilic design and lifestyle amenities.

Our latest integrated mixed-use development, Guoco Midtown at Bugis–Beach Road, is also set to become a landmark development in its neighbourhood. We have introduced innovative concepts like the Network Hub, Singapore's first business and social networking club, to support hybrid working, flexible workplaces, and corporate wellness for our office tenants. In 2024, we look forward to the operational commencement of Guoco Midtown's three retail clusters, as well as the completion of the two condominiums – Midtown Bay and Midtown Modern. We are confident that Guoco Midtown will not only uplift the district but also contribute to the vibrancy of Singapore's new 'Midtown' as we prepare to welcome what we envision could be up to 10,000 daily visitors comprising business executives, residents, shoppers, and tourists.

Q: What distinguishes GuocoLand from other real estate companies / property developers?

A: We have an established track record in creating distinctive integrated mixed-use developments and premium residential properties that are liveable, usable, and adaptable. We strive to design each development from the 'inside-out', a term we use to describe how we prioritise user needs and users' perspectives in the design process, and ensure that each step of the process is focused not just on meeting needs but also on enhancing the user experience.

Our projects, such as Guoco Tower in Tanjong Pagar, Guoco Midtown in Bugis and Lentor Modern in Lentor, are developed with a holistic approach focusing on design, connectivity, concept, and community. Developments with a strong concept



Residents at Lentor Modern can enjoy views of the surrounding greenery and landed Lentor neighbourhood. Photo credit: GuocoLand



Lentor Modern's water features span over 200m, featuring tranquil terraces, pools, and lush garden pavilions. Photo credit: GuocoLand

can attract like-minded people with similar interests who come together and form a community with a strong sense of belonging. We also place significant focus on aspects like placemaking, community building and lush landscaping.

Q: GuocoLand's latest integrated development, Lentor Modern, has emerged as one of the biggest winners in your portfolio. Why did this project win so many awards?

A: Lentor Modern is the first and only integrated mixed-use development in the Lentor Hills estate. With its direct connection to the Lentor MRT station, its integrated mall and proximity to nature, Lentor Modern offers many conveniences for homebuyers. At Lentor Modern, we offer what we term a "One Lift Ride Lifestyle", where a single lift ride connects residents from their homes straight to the 96,000 square feet retail mall with a variety of F&B and retail options, a supermarket and childcare centre, as well as to the Lentor MRT station on the Thomson-East Coast Line (TEL). The TEL is well-integrated with Singapore's MRT network and provides direct connection to key business and lifestyle destinations like Orchard Road, the Central Business District and Marina Bay.

When we design our developments, whether they are residential, commercial or integrated projects, we always adopt a user-centric approach. The units at Lentor Modern are designed to be adaptable to meet what we envision could be the changing needs of occupants and owners over the different stages of their lives. For instance, we introduced a "Flex Room" that the homeowner can use in a way that best suits their prevailing needs. Parents with infants or toddlers can use it as a nursery or a playroom and convert it to a study room when the children get older. The owner can also consider turning it into a walk-in wardrobe, a home office space, or even



Located above Lentor MRT Station on the Thomson-East Coast Line, Lentor Modern's Public Plaza will be the social heart of the neighbourhood and venue for various activities. Photo credit: GuocoLand



Lentor Modern's Flex Room allows homeowners to adapt to meet lifestyle needs – such as nursery, study, walk-in wardrobe or guest room. Photo credit: GuocoLand

a workshop for home businesses.

Another signature feature of GuocoLand is how we incorporate greenery and landscaping in our developments to elevate the quality of life of our residents. Lentor Modern incorporates biophilic spaces in communal areas, along with thoughtfully-designed facilities such as pavilions, gardens, play areas, a glamping terrace and an allotment garden for residents' gardening projects, all of which provide ample spaces for recreation, rest and rejuvenation amidst nature.

Q: What is your strategy for the coming years?

A: GuocoLand aspires to continue creating residential and integrated mixed-use developments that not only meet the current and future needs of users, but also help uplift and transform the neighbourhoods that they are located in.

Additionally, we have another project that we are launching in the Lentor area. This will be our third project in the Lentor neighbourhood after Lentor Modern and Lentor Hills Residences, and we look forward to introducing another unique development with a fresh concept.

We will focus on growing through our twin engines of property investment and development. Our end-to-end capabilities, from design, conceptualising and execution, to asset and facilities management, position us well to unlock more opportunities in the future.

ebm-papst, a leading manufacturer of fans and motors headquartered in Mulfingen, Germany, is investing approximately one million EUR in the expansion and conversion of its Singapore location. The original headquarters of the Southeast Asia region will assume greater importance within the ebm-papst Group and manage the entire Asia-Pacific and Middle East Asia region.

On November 28, ebm-papst held a grand opening to unveil its modernized office and warehouse building in Singapore. With the renovation project in Singapore, the fan manufacturer is creating a new and attractive workspace for the APAC management team, modernizing existing work areas and the warehouse building, and building a future-oriented test and application laboratory as well as a customer experience centre.

In this interview, **Group CEO Dr. Klaus Geißdörfer** and **CSO / CEO Air Technology APAC & MEA, Thomas Nürnberger**, share more about the plans and explain why Singapore was chosen as the APAC hub.



Group CEO Dr. Klaus Geißdörfer



CSO / CEO Air Technology APAC & MEA, Thomas Nürnberger

Q: Congratulations on the grand opening of your APAC Hub in Singapore. How much planning did ebm-papst make for this huge expansion?

A: Over a year of planning until we finalised the new office. Several departments and persons were included. Departments involved are mainly the Admin, Marketing, Logistics and Application. This is also a great example of our approach to working more closely together in international teams.

Admin department does the overall project management, managing the internal stakeholders and space planning.

Marketing supports the project with inputs on the brand identity and brand guidelines, products showcase selection, CX design and conceptualization of the customer experience centre.

Logistics department coordinates the space planning and

enhancement of a more efficient warehouse.

Application team supports the product showcase selection, ensuring that they function well, putting them out on display in the Customer Experience Centre and planning the new application lab (phase 2).

Q: You mentioned that the Singapore office, being the original headquarters of the Southeast Asia region, will now assume greater importance within the ebm-papst Group and manage the entire Asia-Pacific and Middle East Asia region. Can you elaborate a bit more on how the role of the Singapore office will change now?

A: Together with our Indian location, 'where we are currently' expanding the production capacity, Singapore will manage our APAC & MEA region.



"Digitalization and sustainability are the key part of our corporate strategy." – Group CEO Dr. Klaus Geißdörfer

In Singapore, our APAC management team is located and steers the further development of the region.

With this strategy, we are even closer to our customers and can serve them faster.

Q: What factors did you consider when establishing the Singapore office as the future Asia headquarters for ebm-papst?

A: As a technology leader, we want to make even better use of our market potential in the Asia-Pacific region. As part of our glocalization strategy "local for local," we are continuously and independently expanding our Americas, Europe, and Asia-Pacific regions.

Within the context of the "Decoupling China Strategy," we are strengthening our global presence in Asia and increasing the resilience of our supply chains.

To implement this strategy, we want to strengthen our existing locations in the rest of Asia.

Singapore already assumed great importance in our Southeast Asia region and market, therefore it was a logical next step to strengthen this subsidiary and expand here.

The location itself was a reason for our consideration – Singapore as a country has great economical potential and business relations within Asia.

The country is a pioneer in the areas of digitalization and sustainability, as well as the hub of the Asia region – a perfect combination for us.

Moreover, the existing subsidiary and the great competence of our colleagues at ebm-papst Singapore was the key point for our decision to invest here.



CSO / CEO Air Technology APAC & MEA, Thomas Nürnberger (third from left); Group CEO Dr. Klaus Geißdörfer (centre) and the APAC & MEA Management Team.

In combination with our production facilities in India, that will serve the whole Asian market in future, this will be a perfect match.

Q: You shared that Singapore is a pioneer in the areas of digitalization and sustainability as well as the hub of the Asia region. How does ebm-papst plan to leverage on these strengths to grow in this region?

A: Digitalization and sustainability are the key part of our corporate strategy.

To reach both – make sustainable and intelligent solutions for a better climate – it is necessary to work together, within our company, but also with our customers and the public. So, we need good relations to associations and pioneers and Singapore is a role model for innovative ideas here. Therefore, we want to use this inspiring environment to make even more efficient solutions for our market.

Q: I understand that ebm-papst is building a future-oriented test and application laboratory as well as a customer experience centre. Can you share more about these plans for our readers?

A: In the application lab, our application team runs product tests and builds up projects for new customer applications.

This is also to ensure the long-term reliable operation of our solutions in our customers' applications [→ Sustainability due to Quality + Customer centricity].

For example, we built applications for vertical farms in the past to try out the different possibilities in combination with our products. This helps us to provide the best possible solution and service to our customers.

The customer experience centre displays our world of air technology and shows the visitors who we are.

We will lead the air technology in the next generation and the investment in our local subsidiaries is one important step here and the strength of our local subsidiaries is an important piece of the puzzle.



Demonstration of IoT solution.

Azizi Developments renews partnership with Schneider Electric

Dubai, UAE – Azizi Developments, a leading private developer in the UAE, has broadened its collaboration with Schneider Electric to acquire high-quality electrical wiring accessories, including switches and sockets, for three of its distinguished, premium projects – Beachfront in Riviera, part of the highly sought-after MBR City, as well as Pearl and Amber in the rapidly growing Al Furjan.

Schneider Electric SE, a renowned French multinational company, is internationally acclaimed for its innovative, high-quality, and sustainable digital automation and energy management solutions, which address homes, buildings, data centers, infrastructure, and industries by combining energy technologies, real-time automation, software, and services.

In his comments, Mr Farhad Azizi, CEO of Azizi Developments, said: "By extending our partnership with Schneider, the highly

esteemed leader in electrical components, we reaffirm our commitment to sourcing only the very best-in-class construction materials and components for our developments and thereby enriching the lives of those who invest and reside in them. Schneider has proven its many merits over and over again, with outstandingly well-crafted product ranges and an impeccable attention to detail."

Situated in MBR City, Riviera Beachfront comprises three 14-storey developments offering 439 units across 252 studios, 84 one- and two-bedroom apartments, and 19 retail spaces. Each building, set on the shores of Azizi's 2.7-km-long swimmable crystal lagoon, features direct beach access, swimming pools, landscaped surroundings, fully equipped gyms, barbeque areas, children's playgrounds and games, and yoga spaces, among other carefully thought-out amenities.

Amber and Pearl are both nestled in one of new Dubai's growth corridors, Al Furjan, which boasts easy access to all the emirate's points of interest while still being a comfortable distance away from the bustle of the city. Set within a booming community, amid lush greenery and mega-retail stores, Azizi's Amber and Pearl are just one minute away from Mohammed bin Zayed Road and one minute from Al Furjan metro station, making it one of the most sought-after, accessible, and strategically located areas in the emirate. Just seven minutes from Jafza and Ibn Battuta Mall, 10 minutes from JBR and Dubai Marina, 15 minutes from the Al Maktoum International Airport and Palm, 25 minutes from DIFC and Business Bay, and 12 minutes from Expo City, Amber and Pearl offer easy access to a wide variety of business, retail and leisure attractions.



Beachfront – part of Azizi's Riviera project in MBR City.

Grundfos introduces new range of end-suction pumps in Asia Pacific

Bjerringbro, Denmark – Grundfos, a global leader in advanced pump solutions and water technologies, recently launched its new NK and NKE range in Asia-Pacific, to meet the demand for intelligent solutions in the region. As multi-purpose pumps that play a role in a variety of different applications in areas including cooling and heating in commercial buildings, Grundfos introduced the new and improved NK and NKE range to complement its strong portfolio of energy efficient water solutions, providing customers with a holistic range of highly efficient solutions at every level.

Achieving tomorrow's efficiency demands today

The new NK and NKE range offer industry-leading energy efficiency as standard. All pumps are built to IE3 as a minimum, which reduces energy consumption and operation costs and exceeds all current regulatory requirements.

For even greater control and efficiency, the premium NKE range is able to operate up to the highest IE5 efficiency,

achieved through intelligent features such as an integrated permanent magnet MGE motor with variable frequency drive, and built-in pressure sensor. These features work together in detecting and adjusting water pressure and flow intuitively, ensuring optimum conditions 24/7.

With these intelligent components built directly into the solution, NKE removes the need to install any external components such as controllers, frequency-converters, and sensors, which can add further complexity and costs to the process.

Intelligent control and monitoring at your fingertips

Combining cloud connectivity and digitalisation, the NKE range also allows for remote monitoring and access over the system, enabling intelligent control right at your fingertips. This makes NKE compatible with today's building automation and building management systems.

Users can monitor, control, and schedule water use from

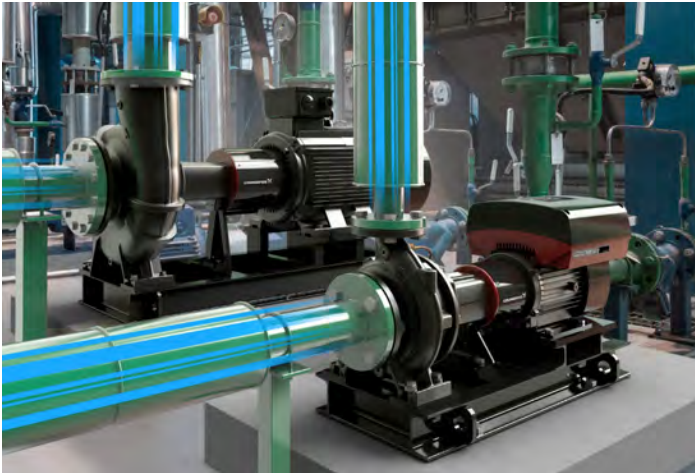


Photo credit: Grundfos

their smartphone with the Grundfos GO REMOTE app, available for both iOS and Android operating systems. With the ability to manage tasks anytime when in range, NKE reduces the

need for manpower, lowering operating costs.

Users can also easily access pump diagnostics, create, and email reports on-site from the app. This ensures any operational issues can be quickly addressed, reducing unnecessary downtime and maintenance costs, and ultimately extend the lifespan of their end-suction pumps.

Designed and built to last

In addition to their advanced efficiency and intelligent upgrades, the new NK and NKE range also include significant technical improvements to maximise reliability and durability, enabling the pumps to be installed, operated, and maintained more easily.

Notably, Grundfos utilised a single manufacturing process which eliminates misalignment, producing longer lasting seals and bearings. The pumps also boast improved hydraulics, which supports the overall efficiency in water flow conditions. The new pump design allows users to easily access the mechanical seal without the removal or disruption of other components. Other improvements include greater noise reduction and an increased temperature range.

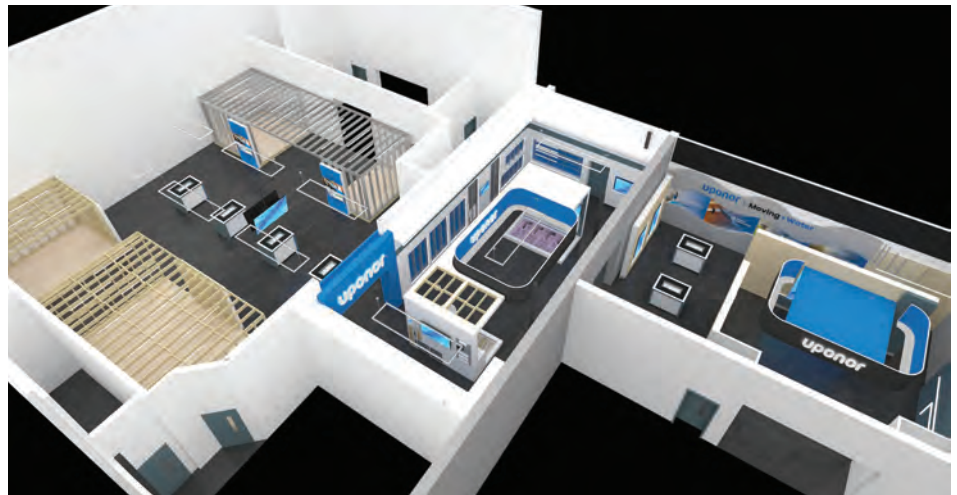
Uponor celebrates grand opening of new Experience Center

USA – On 27 September 2023, Uponor North America celebrated the grand opening of its newly constructed Uponor Experience Center located at its regional headquarters in Apple Valley, Minnesota, USA.

Boasting 4,500 square feet of hands-on displays, full-scale residential and commercial training areas, and cutting-edge innovation showcases, the new Uponor Experience Center is a flexible education and discovery space designed to advance the technical skills of current and potential customers. In addition, it will help foster innovation within the plumbing and HVAC industry and provide an immersive experience for employees and visitors alike.

The new Uponor Experience Center occupies the company's previous customer training area, which was originally built in 2000 and renovated in 2010. It is at the center of the North American headquarters campus, surrounded by corporate offices, an R&D facility, and manufacturing space.

With original concepts beginning back in 2020, the Uponor Experience Center was several years in the making. The thoughtful design, which takes into consideration the company's rich Finnish



roots, resulted from many months of internal team collaboration, as well as feedback from customers, partners, and industry influencers.

As guests move through the front doors toward the back of the space, they first experience displays depicting who Uponor is as a company along with the customers served and the unique value provided to key audiences and the industry. Then, there are product showcases and interactive displays for plumbing, fire safety, radiant heating/cooling, hydronic piping, and pre-

insulated piping system solutions for residential and commercial markets. Finally, there is an oversized training area, featuring both wood and steel structures, where professionals will learn proper hands-on installation techniques as well as how Uponor's emphasis on problem-solving and productivity delivers results for their businesses.

The Uponor Experience Center was designed and constructed in cooperation with exhibit specialists at Freeman and officially open to external audiences for tours and training in October 2023.

9G elevates customer experience with new website

Singapore – 9G, one of Singapore's leading multi-brand elevator and escalator maintenance service providers, announces the launch of its new website: 9g.sg.

9G is a subsidiary of Otis Elevator Company, a global leader in the manufacture, installation and servicing of elevators and escalators.

The new site will further strengthen customer engagement and communication with the company. It has been designed to offer a user-friendly experience while allowing all new and existing customers to explore the full range of services 9G can offer.

"The launch of our new website is especially meaningful as it coincides with our 20th anniversary celebrations. Through the expansion of our communication channels, we look forward to providing our valued customers with speedier responses, more resources and comprehensive information about our services," said Managing Director Bechir Hellal. "Our aim is to solidify our role as a dependable partner, delivering the highest service quality and instilling confidence in every journey."

Visitors to the new site can find information about the company's milestones, vision, mission, and values. With a contact form readily available, the process of sending inquiries, requesting quotes, and reporting service needs is convenient for existing and prospective customers. Answers to frequently asked questions regarding 9G's diverse services such as elevator and escalator maintenance and repair, modernization and upgrading are also easily accessible on the platform.

Moreover, site users can learn more about 9G through regularly released news articles – including tips for riding elevators and escalators with children – and customer success stories plus other relevant information.

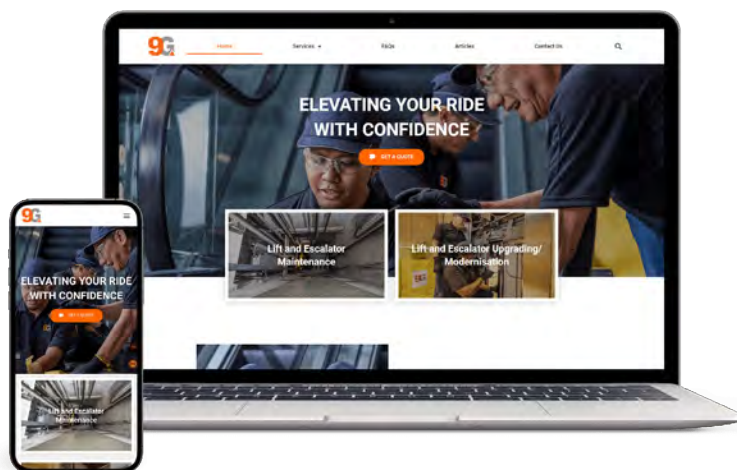


Photo credit: 9G Elevator

Fujitec completes modernisation of elevators in Singapore's leading high-rise of office building

Singapore – Fujitec Singapore Corpn. Ltd., a group subsidiary of FUJITEC CO., LTD. (Head Office: Shiga Prefecture, Japan; President and CEO Masayoshi Harada), completed modernisation* of 19 elevators in One Raffles Place (formerly OUB Center), Singapore. The new elevators equipped with the latest functions, offer increased speed and new systems to shorten riding time, offering greater comfort and more stability.

One Raffles Place, built in 1986, was the tallest building in Asia at that time. Fujitec Singapore supplied high-speed elevators of 420 metres per minute and other equipment with the original building construction. Since then, Fujitec Singapore has been providing maintenance, supporting safe and secure elevator operations. After 30 years of maintenance and support, Fujitec Singapore modernised the elevators from October 2019 to August 2023, maintaining safety and adding functionality.

Under the Vision-24 medium-term management plan, Fujitec pursues expanded sales for modernisation products in mature markets in global business. As a specialist manufacturer, the company intends to continue supporting the life cycle of elevators and escalators operating integrated systems that contribute to sustainable urban development.



Photo credit: Fujitec



Main Construction / Specifications

- Replaced machine, operating panels, etc.
- High-speed elevators (increased speed from 420 metres per minute to 480 metres per minute)
- EZSHUTTLE destination floor guidance system

The modernisation period was from October 2019 to August 2023.

*Elevator modernisation is the process of improving elevator performance by transforming an old elevator into one equipped with the latest technology.



Photo credit: Fujitec

GF Piping Systems and Xi'an Sunresin New Materials Co., Ltd. announce strategic cooperation for innovation in ion exchange adsorption technology

Schaffhausen, Switzerland – To foster innovation and drive advancements in the salt lake lithium extraction industry and beyond, GF Piping Systems, a leading flow solutions provider, strengthens its seven-year relationship with Xi'an Sunresin New Materials Co., Ltd. (Sunresin), an innovation-oriented high-tech enterprise that specializes in supplying ion exchange resins, adsorption and separation resins, complete systems, integrated overall solutions and relevant technical services, with a strategic cooperation partnership in China.

GF Piping Systems and Sunresin are delighted to announce a strategic

cooperation that combines Sunresin's expertise in ion exchange adsorption technology and GF Piping Systems extensive capabilities in piping systems and related solutions. With a shared commitment to innovation and mutual success, this cooperation aims to create new opportunities, streamline processes, and foster industry-wide advancements.

During the signing ceremony held on 21 September 2023, esteemed representatives from both organizations voiced their enthusiasm for this new venture. "This partnership represents an exciting step forward for our Strategy 2025 and our efforts to drive innovation

and technological excellence," said Joost Geginat, President of GF Piping Systems. "Combining Sunresin's expertise in adsorption technology with GF Piping Systems China's technical prowess, we are confident that we can drive meaningful progress and positively impact the salt lake lithium extraction industry."

Sunresin's pioneering work in adsorption and separation technology has yielded remarkable advances, particularly in salt lake lithium extraction. Their expertise, coupled with GF Piping Systems comprehensive range of high-quality solutions, including UPVC and CPVC pipeline systems, automatic valves, and instrument products, positions this partnership as a force for innovation and progress.

Dr. Gao Yuejing, Chairman of Sunresin also expressed her excitement about the joint innovations and the promising prospects they offer. "By combining Sunresin's cutting-edge adsorption technology with GF Piping Systems unparalleled expertise in piping systems, we are poised to achieve remarkable success," she said. "This strategic cooperation will enable us to create a win-win situation for both companies, unleashing new potential in the industry and driving mutually beneficial advancements."



Photo credit: Sunresin New Materials Co., Ltd. / GF Piping Systems

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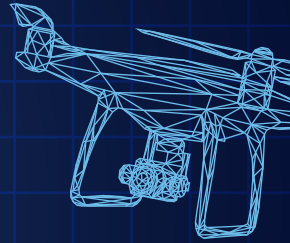
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Architecture & Building Services 2023 successfully completes exhibition and conference

Architecture & Building Services (ABS) 2023, the region's three-day mega expo organised by Conference & Exhibition Management Services (CEMS) to serve the Built Environment industry, took place from 15–17 November 2023 at the Marina Bay Sands Expo & Convention Centre.

In its 9th edition, themed 'Designing a Safe and Resilient Built Environment', ABS has established itself as the premier gathering place to facilitate a dynamic and engaging platform for interaction between buyers and sellers. The show also hosted significant domestic and global entities in the integrated Built Environment sector, emphasising Architecture & Design, Facilities Management, and Safety & Security.

According to Mr Edward Liu, Group Managing Director, CEMS, "ABS 2023 is the region's most important platform for the Built Environment industry as we embrace and address the challenges of sustainability and resilience. With a robust lineup of 11 conferences and six curated exhibitions of cutting-edge solutions, we're setting the stage for innovation and collaboration. It's a privilege to host such a dynamic community committed to shaping a future that is not only built to last but also designed to thrive."

ABS 2023 expected to attract an attendance of more than 8,000 visitors, exhibitors, conference delegates, and trade professionals from Singapore and the rest of the world this year.

For more information on ABS 2023, visit <http://architecturebuildingservices.com>.



AFEEC & FAPECA Conference group photo at ABS 2023. Photo credit: Conference & Exhibition Management Services (CEMS)



Daejin displays luxury vinyl floor tiles

Daejin Co., Ltd. exhibited its Decoria brand of luxury vinyl floor tiles at ABS 2023 show. Decoria offers many benefits such as:

High density PU coating – Improved PU coating enhances protection from scratches, and assumes comparably longer life times.

Glass fiber sheet – Additional glass fiber layer can improve dimensional stability by minimising shrinkage and expansion of product.

Glueless installation – Non-slip of assembly technology allows easy installation with no use of adhesive.

Eco-friendly material – Products made with recycled material improves environmental protection.

Various colour / pattern design collection – Various colours and patterns with more than 500 of selection allows you to find the most suitable design for your flooring.

"We want to promote our luxury vinyl flooring at the exhibition," said Bumsu Kim, Sales Manager, Overseas Sales Department, Daejin Co., Ltd.

For more information, visit www.decoria.co.kr.



Bumsu Kim at the Daejin booth at ABS 2023 show.

ADAM showcases professional commercial and industrial drone solutions

The Academy of Design Arts & Media (ADAM) is a professional company specialising in commercial and industrial drone solutions.

As a subsidiary of Wong Fong Academy (WFA), the company has established a good reputation for providing top-quality skills training across all industrial sectors in Singapore.

The company offers drone courses for beginners as well as specialist drone pilots. The courses are curated to impart hands-on coaching by ADAM's own competent trainers, where learners get the chance to hone their flight skills with the range of UAs they have in store.

Whether you require precise building inspections, 3D imaging, thorough confined space inspections, LiDAR or comprehensive unmanned aircraft (UA) courses, ADAM has you covered.

With their deep understanding and wide-ranging connections in various industries, ADAM is uniquely positioned to recognise the challenges you face and provide innovative solutions that harness the power of drone technology.

"We are an approved training organization as well as drone inspection service provider. We hope to promote our wide services to the showgoers at ABS 2023," said Marcus Lee, Director, ADAM.

For more information, visit www.adam.edu.sg.



Marcus Lee at the ADAM's booth at ABS 2023 show.

Hyundai Elevator Co presents Air Touch sensor system

At ABS 2023 show, Hyundai Sales & Services Sdn Bhd presented a position sensor system called Air Touch. Because we live in an era that demands minimal physical contact, Air Touch enables passengers to enter destination floors without having to press any buttons and prevent the transmission of infectious diseases and contamination through touch.

This unique technology can be easily applied to existing operating panels while fully complying with standards for the visually impaired.



Hyundai Elevator displayed the Air Touch sensor system at its booth.



Chau Thin Wai, Manager, New Installation Sales (left) and Yong Kok Eng Bernard, Sales Representative (right) from Hyundai Elevator Sales & Services Sdn Bhd at their booth at ABS 2023 show.

Air Touch Mono and Air Touch Duo

Air Touch comes in two types: Air Touch Mono and Air Touch Duo. In Air Touch Mono, a single sensor bar processes input and output signals. It has an angular shape and chic and sophisticated design (24 mm wide). In Air Touch Duo, two sensor bars process input and output signals respectively. It has a slim round shape and stylish design (13 mm wide).

Operating principle

Air Touch uses ultra-precise, multi-touch infrared (IR) sensors and a gesture-based interface to register destination floors without touch. IR sensors installed at 2 mm intervals recognise shapes and target areas. The sensors' range is between 14 ~ 20 mm (vertical distance) from the button's surface.

Hyundai Sales & Services Sdn Bhd is the Malaysian office of Hyundai Elevator Co., Ltd. The company recently opened an office in Singapore in High Street Plaza. Since the opening, Hyundai has made two installations of lifts – one at the US Embassy and the other one at Seletar Airport.

"Air Touch is an innovative solution which can also be retrofitted to an existing system, thereby saving time and cost," said Bernard Yong, Sales Representative, Hyundai office in Singapore.

For more information, visit www.hyundaelevator.co.kr.

KTE Co Ltd sets new standards for luxury flooring

KTE Co., Ltd. is a manufacturer of luxury vinyl flooring from South Korea. The company exhibited its brand NEOFL at the ABS 2023 show to raise awareness for the flooring product and also to seek distributors in Singapore.

According to Charles Kim, Overseas Sales / Deputy General Manager of KTE Co., Ltd., KTE aims for a new standard of luxury flooring. Its vinyl flooring collections are produced by a world-class quality control system.

"We are looking for distributors in Singapore for our high-quality and luxury vinyl flooring," said Charles.

NEOFL can be installed safely by applying an organic and inorganic hybrid anti-bacterial agent. Further, the application of its enhanced PU coating technology features higher durability for scratches. With its proven quality and reliability, KTE is supplying its vinyl flooring products to its customers all over the world, including USA, Canada, EU, Australia, Mexico and etc.

NEOFL new design collections are available in various types of products like conventional 'Dryback' and 'Looselay' for easier installation without adhesives and enhanced safety with a non-slip layer, and 'Acoustic' which reduces floor noise.

For more information, visit www.ikte.kr.



Charles Kim at the KTE booth at ABS 2023 show.

Bits & Bytes showcases large-format printers for renderings



Bits & Bytes' booth at ABS 2023 show.

At ABS 2023, Bits & Bytes Marketing Pte Ltd showcased large-format printers for architectural drawings and renderings.

The Epson Inkjet Printers uses 85 percent less power consumption and fewer replacement parts (50 percent) than laser printers.

Epson Heat-Free Technology uses less power than laser technology because it does not use heat during the printing process. As Epson printers have no fuser unit to heat, this results in significantly less energy consumption.

Thanks to Heat-Free Technology, Epson inkjet printers use fewer parts that need replacing than in laser printer. Also, Epson inkjet printers' printheads are not a consumable. This reduces the environmental burden of manufacturing and recycling the additional resources.

With Epson's eco-efficient business inkjet and technical printers, you can enjoy higher page yield, less wastage and more energy savings.

For more information, visit www.bitsnbytes.com.sg.

Stylish and sustainable ceiling fans from **SPIN**

SPIN Pte Ltd is a manufacturer and supplier of premium ceiling fans in Singapore since 2014. SPIN's dedication to perfection lies in the craft of ceiling fans and its strong desire to create a holistic user experience and unparalleled level of service quality.

SPIN was the first in Singapore to introduce the ceiling hugger style. This makes it the perfect choice for spaces with lower ceilings yet provides you with the option of including an extension rod for higher ceilings.

With a timeless colour palette and the freedom to mix and match body and blade colours, there is a SPIN SIGNATURE that will convey your unique style and taste.

SPIN is also committed to protecting the environment. Its fans are made with parts that are easily recyclable, ensuring a responsible end-of-life cycle. From the body to the blades, SPIN prioritises materials that can be recycled, reducing waste and promoting a circular economy.

"Our ceiling fans are used by many builders, architects and interior designers in their projects as they offer style and performance to enhance any commercial or home space," said Casper Heng, Marketing & Business Development Manager, SPIN Pte Ltd.



Casper Heng at the SPIN booth at ABS 2023 show.

For more information, visit www.spinfans.com.sg.

Shanghai Pingzhiyuan New Material Technology specialises in flame retardant products



Katherine at the Shanghai Pingzhigaki booth at ABS 2023 show.

Shanghai Pingzhiyuan New Material Technology Co., Ltd. is a manufacturer of energy-saving and environmentally-friendly new fire-proofing flame-resistant series materials, photocatalysis series new building decoration materials, long-afterglow luminescent materials for the local and export market.

At ABS 2023, the company showcased its wide range of fireproof coatings: PZY – 01 water-based inorganic fire retardant paint, PZY – 02 water-based inorganic fire retardant paint, PZY – 100X halogen-free environment-friendly polyolefin flame retardant, and PZY – 100S concentrated halogen-free environment-friendly flame retardant.

The company's products have obtained national invention patents.

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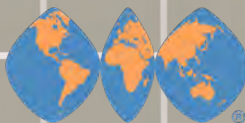
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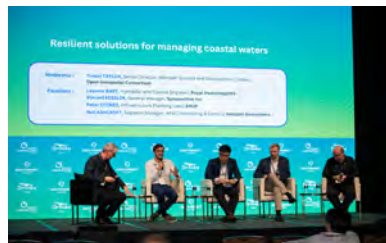


Geo Connect Asia returns to Singapore on the 6th & 7th March 2024 to build on its position as the region's leading international show for the geospatial, positioning and remote sensing industries.

With the theme Geospatial driven impacts: *underground, ground and sea to sky* the conference programme addresses key challenges facing the Asian region, from public health and critical infrastructure to Geo + AI and the monitoring of utility operations.

Geo Connect Asia also embraces the demands for digitalisation of the construction industry, through the co-located Digital Construction Asia show. The launch of Marine & Hydro Asia provides focus on the hydrospace challenges of managing key issues relating to Asia's coastal and marine waters. Geo Connect Asia, along with its sister shows, is poised to draw over 3,500 professionals. This includes the co-located Drones Asia, now relaunched as Drones & Uncrewed Asia, offering a specialised platform for the UAV markets in the region.

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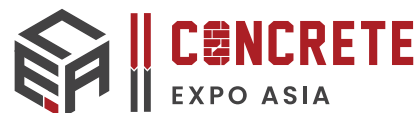
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Event	Date	City	Country	Website	Page
Light + Intelligent Building Middle East 2024	16-18 Jan 2024	Dubai	UAE	https://light-middle-east.ae.messefrankfurt.com/dubai/en.html	IFC
World of Concrete 2024	23-25 Jan 2024	Las Vegas	USA	www.worldofconcrete.com	IBC
Geo Connect Asia 2024	6-7 Mar 2024	Singapore	Singapore	www.geoconnectasia.com	66
WORLDBEX 2024	14-17 Mar 2024	Manila	Philippines	www.worldbex.com	65
Xiamen Stone Fair 2024	16-19 Mar 2024	Xiamen	China	https://stonefair.org.cn	63
Architect Expo 2024	30 Apr-5 May 2024	Bangkok	Thailand	www.architectexpo.com/2024/en/	64
Megabuild Indonesia 2024	9-12 May 2024	Jakarta	Indonesia	www.megabuild.co.id	61
R+T Asia 2024	28-30 May 2024	Shanghai	China	www.en.rtasia.net	7
CBA Expo 2024	22-24 Aug 2024	Bangkok	Thailand	www.consbuildasia.com	67
Thailand International Woodworking & Furniture Exhibition 2024	18-20 Sept 2024	Bangkok	Thailand	https://thailandwoodworking.com	62

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