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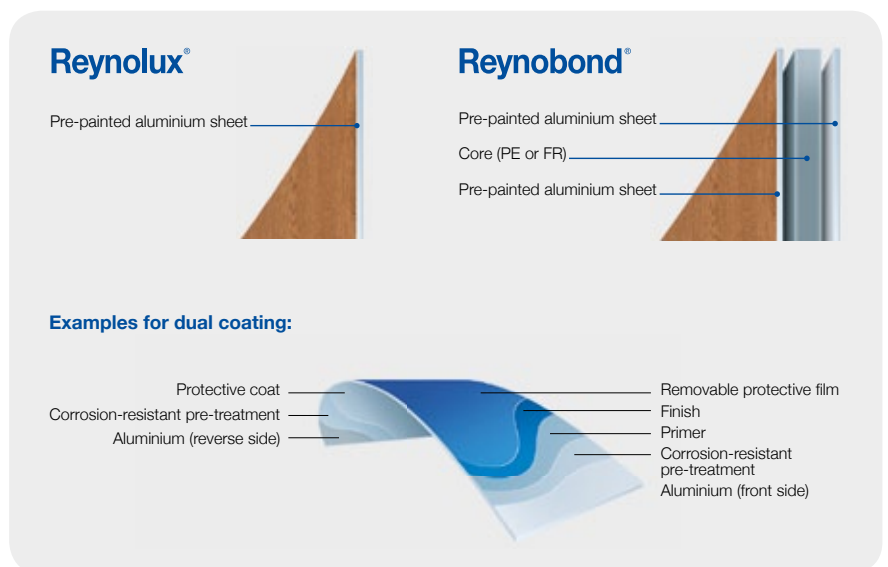


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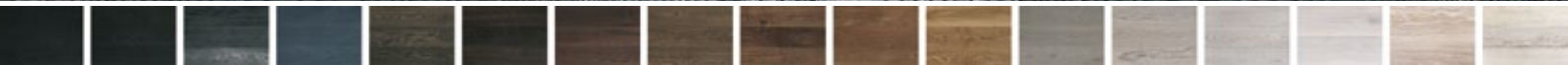
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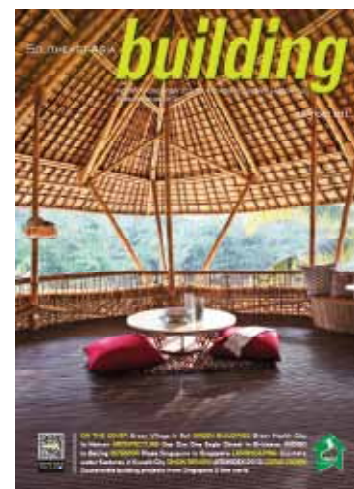
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On the Cover: Green Village in Bali.
Photo: © Elora Hardy

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Residential building in Sheffield (UK)

Aluminium joinery solutions in contemporary world architecture

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Technal GEODE curtain walling

editor's note



Warm greetings to all our readers in Singapore and around the world. The Sept/Oct 2013 issue is our annual "green" issue dedicated to sustainable building projects and green building products.

We have sourced a wide variety of projects that demonstrate sustainable technologies and strategies such as a green roof, photovoltaics, green interiors, energy efficient HVAC, daylighting, passive solar design and much more. You can find these articles in the section "Going Green".

In the Architecture section, we look at how glass played a functional and aesthetics role in the skyscraper "One One One Eagle Street" in the heart of Brisbane and in INDIGO, a new retail-led mixed-use development, located between Beijing's famous 4th and 5th Ring Roads.

In Interior Design, we check out the newly renovated interiors of Plaza Singapura in Orchard Road and in the Landscaping section, we bring you Crystal's spectacular water features at Constitution Gardens in Kuwait City.

ARCHIDEX 2013, the 14th International Architecture, Interior Design & Building Exhibition, finally came to an end after four power-packed days of exhibition from 19-22 June 2013 at Kuala Lumpur Convention Centre. If you would like to read more about the show, read the review on pages 98 - 101.

We hope you enjoy this 'green' issue, and as always, please give us your feedback on upcoming topics you would like us to cover in the future issues of *SEAB*.

Amita Natverlal

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BlueScope Steel and Nippon Steel complete joint venture to form NS BlueScope Malaysia Sdn Bhd

Malaysia earmarked as key growth market; set to benefit from technology transfer.

Kuala Lumpur, Malaysia – BlueScope Steel today formally announced the completion of its joint venture with Nippon Steel Sumitomo Metal Corp. (NSSMC) – the world’s second largest steelmaker by volume – to form NS BlueScope Coated Products (NS BlueScope). The 50:50 joint venture encompasses BlueScope’s ASEAN and North American building products businesses and carries a combined enterprise valuation of US\$1.36 billion.

According to Mr Sanjay Dayal, NS BlueScope’s newly assigned Chief Executive; NS BlueScope now possesses the financial flexibility to grow its footprint across the region. “BlueScope and Nippon Steel share a long-standing 40-year relationship and the collaborative potential places NS BlueScope in an advantageous position to extend our market leadership and break new ground across Asia. To achieve this, we will be tapping into the combined innovation and R&D capabilities as well as leveraging the greater accessibility to new customer networks and product areas such as home appliances,” said Mr Dayal.

In light of the transition, operations and management



(From L-R): Mr Sanjay Dayal, Chief Executive Officer of NS BlueScope, Mr Somkiat Pintatham, Country President for Malaysia, Singapore & Brunei, BlueScope, Mr Nobuo Okochi, Deputy Chief Financial Officer, NS BlueScope and Mr Junichi Murakami, Vice President, Business Development, NS BlueScope Coated Products.

at NS BlueScope Malaysia will remain unchanged. All existing arrangements and working relationships with suppliers and customers will stay in place and will not be affected by this change.

Mr Somkiat Pintatham, Country President - Malaysia, Singapore, and Brunei who will continue to lead operations then went on to add that Malaysia has been identified as one of the key investment markets and will undoubtedly benefit from leading-edge technology transfer and future growth opportunities. “NS BlueScope gives us the opportunity to share in NSSMC’s vast technological base which will allow us to learn new expertise and best practices from one of the world’s most innovative steel companies. As an industry, we stand to learn from some of the best talent and raise our own standards of excellence,” he said.

Mr Junichi Murakami, Vice President, Business Development, NS BlueScope Coated Products, added that NS BlueScope is well poised to perform in the current challenging steel industry. He said: “More specifically, this partnership will provide us with new prospects meant to cater to manufacturers of domestic appliances with our high quality steel; opening new market opportunities for the joint venture. This in return would be beneficial to our customers by providing them with a greater range of products as well as a significant competitive advantage as both parties are leaders in the steel industry.”

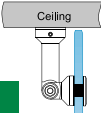
On the local front, Mr Pintatham stated that government projects will continue to buoy domestic steel demand. “The rollout of projects under the Economic Transformation Programme is keeping the local building and construction sector healthy while the property market continues to remain bullish. The environment will be competitive, but with our added resources, there is vast potential for us to expand our market segments.”

NS BlueScope comprises 3,000 employees across 29 manufacturing plants across ASEAN and North America. This will include NS BlueScope Malaysia’s manufacturing plants for roll-forming and coated steel building products that are located in Kapar, Shah Alam, Sabah, Sarawak, Singapore and Brunei. ■



(From L-R): Mr Sanjay Dayal, Chief Executive Officer of NS BlueScope, Mr Nobuo Okochi, Deputy Chief Financial Officer, NS BlueScope, Mr Junichi Murakami, Vice President, Business Development, NS BlueScope Coated Products and Mr Somkiat Pintatham, Country President for Malaysia, Singapore & Brunei, BlueScope.

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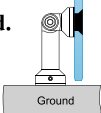
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Singapore's first awards for the built environment industry launched

The BEI Asia Awards recognises the achievements of enterprises in the building sector and their efforts in promoting sustainable growth locally and across Asia Pacific.

Singapore – CREATIVE Group recently established the BEI Asia Awards – the first focused award for all enterprises across the Built Environment Industry (BEI). The award was initiated to celebrate the outstanding performances of enterprises in developing successful businesses, with the aim to acknowledge their contributions towards the development of people, society and the environment; thereby setting benchmarks for enterprises to aspire towards, and driving sustainable growth in Singapore and beyond.

A soft launch of the award was held at Goodwood Park Hotel and the event was well attended by industry leaders, entrepreneurs and media representatives.

“Recognising the Finest Enterprises in the Built Environment Industry” – The BEI Asia Awards 2013 accepts nominations from all sectors of the built environment industry all-encompassing Building, Architectural & Engineering and Civil & Landscape Contractors, Manufacturers, Designers, Property Developers and Investment Companies, Property & Facilities Management Companies, Consultants and Planners, EPCM Contractors, Specialist Trade Contractors, Materials Suppliers, Vendors and Construction Services Providers. Nominees are required to be Singapore-registered companies with an annual sales turnover of S\$1 million and above.

In addition to supporting enterprises in achieving their goals and hence motivating them to become regional players in the future, the BEI Asia awards is a natural extension of this vision through highlighting effective role models in the industry to inspire others with their journeys. The Awards is also the first to target enterprises whose efforts and achievements have yet to be recognised in the building sector. This platform is initiated to encourage companies in Singapore to fulfill their roles in ensuring sustainable growth of their businesses and the built environment economy.

The BEI Asia Awards 2013 will be held at Marina Bay Sands (Singapore) in December. All Nominees of the award will gain admission to the Awards Winners' Circle. Unlike any awards, this platform is established for built industry professionals to network for success. The Awards Winners' Circle will host events for members to share ideas and develop opportunities to expand their businesses. ■



KYOCERA to supply and construct 30 MW of solar power at agricultural facilities across Japan

Kyoto, Japan – Kyocera Corporation announced that it is supplying approximately 30 megawatts (MW) of solar power generating systems to one of the largest solar power projects in Japan, which is being implemented by the National Federation of Agricultural Cooperative Associations (herein “Zen-Noh”) and Mitsubishi Corporation (herein “Mitsubishi”). Within the project, Kyocera Solar Corporation will be in charge of supplying, engineering, constructing, and maintaining a total of 30 MW of solar power generating systems to be installed at roughly 80 of the Zen-Noh Group’s facilities (livestock barns, distribution centres, parking lots, etc.) around the country. The Kyocera order is worth approximately 8.5 billion yen (approx. 89 million US dollars*1), and comprises the initial phase of the project*2.



Image of a solar power generating system on a Zen-Noh Group logistics centre in Hanamaki, Iwate Pref., Japan (approx. 800kW).

Aiming for the reinvigoration of the agricultural sector and local farming towns, as well as the further spread of renewable energy use, Zen-Noh and Mitsubishi are planning to build one of the country’s largest scale solar power projects by installing a total of 200 MW of solar power generating systems on farmers’ and Zen-Noh Group’s facilities nationwide by the end of FY2015. The two companies have established JAMC Solar Energy Company to operate the solar power project, and will sell the power generated from the installations to the regional utility power companies under Japan’s feed-in tariff programme.

Kyocera first began research into solar energy in 1975, and has expanded its solar energy-related business to include not only the production and supply of solar modules, but also installation, construction, and even operation of large-scale solar power plants in Japan along with a number of other Kyocera Group companies.

Kyocera was awarded this contract based on the high-quality of its multicrystalline silicon solar modules, and the Kyocera Group’s comprehensive strength and engineering technology to install a large number of solar power generating systems in a short period of time on a wide range of agricultural facilities with diverse roof shapes. Through the provision of this large-scale project, the Kyocera Group aims to promote the further use of renewable energy and to contribute to local communities and human society. ■

*1 Based on the rate of USD1 = JPY95 (as of June 14, 2013).

*2 Initial phase was applied for and approved under FY2013 feed-in tariff rate.



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Johnson Controls achieves LEED® Platinum Certification for Hong Kong office space

Singapore – Johnson Controls, a global leader in delivering solutions that increase energy efficiency in buildings, has earned a top sustainability rating for its new Hong Kong office East of Kowloon Peninsula, receiving a LEED® Platinum certification. The new leased office space has 55,000 square feet and houses more than 300 employees.

“LEED has proven to save money, reduce waste and protect the environment. We have experienced the positive impact of LEED at our own facilities as well as delivered these same benefits to our customers around the world,” said Ricky Chan, general manager for Johnson Controls Building Efficiency Hong Kong.

Johnson Controls now has more than 2.5 million square feet of certified green building space around the world and has impacted 23 million square feet of building space for its customers. Examples of customers in Asia include the Guiyang Convention & Exhibition Center (China), Nanjing Atlas Copco R&D Center (China) and PoMo (Singapore).

Johnson Controls adopted a comprehensive technology and building controls strategy to achieve substantial savings at the building, located on the 12th and 13th floors of the Octa Tower. Features include:

- 32 percent reduction in heating, ventilation and air-conditioning (HVAC) energy consumption
- 28 percent reduction in total energy usage
- 40 percent saving in water consumption

Johnson Controls used its own building management system, Metasys®, to enable lighting and temperature-zoning control, using sensors to optimise energy consumption throughout the office.

The information gathered from the building management system is displayed on a green kiosk for employees and visitors to monitor real-time energy use and the building’s total carbon footprint. In addition, through a web-based interface on their computers, employees can control the lighting and the temperature settings for their environment.

These efforts align with Johnson Controls’ core values of sustainability and innovation, and are part of its ongoing commitment to the vision of creating a more comfortable, safe and sustainable world. Johnson Controls has been a leader in energy-efficient buildings by working with the U.S. Green Building Council to help establish the criteria for the original LEED rating system. ■

Autodesk introduces monthly Building Information Modeling (BIM) Clinic for SMEs in Singapore

Joint effort with Building & Construction Authority (BCA) Singapore to rollout first-ever industry programme supporting BIM adoption amongst SMEs.

Singapore – Autodesk, Inc. has announced the launch of monthly BIM Clinic tailored towards helping Singapore SMEs adopt and maximise the use of BIM solutions. A collaborative initiative with the Building & Construction Authority (BCA) Singapore, the Autodesk-led BIM clinic programme will help SMEs transition to BIM.

Led by Autodesk BIM experts, the first Clinic was recently held at Autodesk’s Fusionopolis office (#10-21 Symbiosis). SME participants received insights on applying BIM technology such as Autodesk Building Design Suite, Autodesk Revit Architecture, Autodesk Revit MEP and Autodesk AutoCAD Civil 3D software products to drive productivity and maintain competitiveness.

Commenting on the launch of the BIM Clinic programme, Mr Lee Chuan Seng, Chairman of BIM Steering Committee at BCA said: “BCA and BIM Steering Committee are excited to join hands with Autodesk for this initiative. With the help of Autodesk experts, the Clinic aims to address the issues faced by its customers, especially those small and medium enterprises and sub-contractors in embracing BIM.”

Singapore’s most ambitious architectural and construction projects, including Marina Bay Sands, the ArtScience Museum, the National Stadium and the Downtown Line MRT all bear testament to the power capabilities of BIM.

“We believe that the impact of BIM on businesses is proven and universal. Firms of any size can quickly reap the benefits of BIM. Autodesk engages with a myriad of stakeholders to drive BIM adoption globally, including governments, educators, students and industry professionals. Singapore has been a frontrunner in BIM adoption globally, thanks to initiatives driven by BCA. We look forward to working closely with BCA to further accelerate Singapore on the highway to BIM,” said Mr V.R. Srivatsan, Managing Director, Autodesk – ASEAN. ■



Autodesk BIM Clinic in progress at Singapore. Photo: © Autodesk

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World Green Building Council appoints five new directors

Sydney, Australia – Five leaders in the global green building movement have been appointed to the World Green Building Council's (WorldGBC's) Board of Directors.

"We are delighted to announce the appointments of green building leaders from Colombia, Jordan, the United Arab Emirates, Hong Kong and Singapore," said the WorldGBC's Chairman Mr Rick Fedrizzi. "Our new directors bring with them vast knowledge and expertise in their regions, and reflect the growth and diversity of our global movement. They will help us to amplify our simple message that green buildings offer an unrivalled opportunity to cut emissions and operational costs, boost economies, create jobs, and improve the health, productivity and living conditions of people around the world," he added.

Mr Fedrizzi noted that since its founding in 2002 with eight green building councils, there are now 97 GBCs from around the globe.

The five new appointments to the WorldGBC's Board of Directors are:

Mohammad Asfour, Jordan

Chairman of the Jordan Green Building Council, Mohammad Asfour, sits on a number of boards and advisory committees focused on sustainability in the built environment. "Green building programmes can support both environmental and economic sustainability. "I'm committed to driving activity in the Middle East and North Africa region to share knowledge and work together achieve to local and global sustainability," said Mr Asfour.



Cristina Gamboa, Colombia

A true green building advocate with extensive experience in applied economic research and international relations, Cristina Gamboa has been Chief Executive Officer of the Colombia GBC since 2009. "I believe in partnerships, and the ColombiaGBC's partnership with WorldGBC has enabled our organisation to succeed faster than we expected. I am excited to have the opportunity to contribute my ideas to help other GBCs and take the WorldGBC to its next stage of development," said Ms Gamboa.



Adnan Sharafi, United Arab Emirates

Adnan Sharafi is currently Chairman of the Emirates Green Building Council, is a recognised thought-leader and advocate for sustainability. "The Middle East has a unique climate and limited natural resources, which must be considered for buildings in the region to perform efficiently. I look forward to bringing my knowledge gained through first-hand experience in a rapidly-expanding region to further our collective objectives," said Mr Sharafi.



Tai Lee Siang, Singapore

Tai Lee Siang is immediate past President of the Singapore Green Building Council, and one of the pioneers of Singapore's sustainability movement. Under his leadership, the SGBC has expanded its focus from industry to the community. "The green building movement needs the buy-in of the general public. I'm committed to working with GBCs to find new tools to communicate our message," said Mr Tai.



Conrad Wong, Hong Kong

Chairman of the Hong Kong Green Building Council, Conrad Wong, has more than 25 years of experience in the construction industry as developer, contractor and building material supplier. "I will be focused on enhancing the connections and communication between GBCs in the Asia Pacific region to improve energy efficiency, develop green materials and help accelerate the transformation of the building industry globally," said Mr Wong. ■





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Archetype Group to project manage Myanmar's tallest building, Diamond Inya Palace

Yangon, Myanmar – After only months since opening an office in Yangon, Archetype Group is proud to announce that it has signed the contract for project management services on a building that will become the tallest building in Myanmar, Diamond Inya Palace. This contract was awarded following a successful Design Review done several months ago by Archetype on the same building.

Located in clear proximity to Inya Lake, The Diamond Inya Palace is a residential complex of 34 storeys and a GFA of approximately 120,000 square metres. There will be 406 apartments, including four penthouses, and facilities include a spa, a mini-theatre and a swimming pool. This project greatly enhances Archetype's high-rise portfolio in Asia, with several high-profile projects already under construction, including the Mahanakhon Tower (the tallest building in Bangkok), the St Regis Hotel and Office Tower (one of the highest towers in Jakarta) and the Saigon M&C building (2nd highest tower in Ho Chi Minh City).

Mark Petrovic, Managing Director of Archetype Group's Yangon office explained why Archetype was awarded this



contract: "Many of the region's developing cities are encouraging the addition of high-rise buildings to their skylines to promote a more sophisticated urban image. We are well-placed for this type of growth in Myanmar because of our solid high-rise experience across Southeast Asia and our knowledge of the local conditions and culture allows us to better understand and answer client expectations."

As one of the new players in

the Myanmar construction industry, Archetype Group has already signed contracts for several important projects there, including airports, mixed-use and hotel developments. The firm has also established strong and lasting relationships with some of the country's most successful developers and construction companies.

The Diamond Inya Palace is due to be completed in late 2015. ■

Bayer material for reconstruction project in Japan's disaster area

Tokyo, Japan – High-performance plastic sheets from Bayer MaterialScience have been chosen for an agricultural reconstruction project in the disaster area of northeast Japan, hit two years ago by a devastating earthquake and tsunami. The material is used in a new greenhouse of a local farming corporation called VEGI-Dream Kuhara. It has been set up by subsidiary companies of Toyota Motor Corporation in cooperation with the local government. The transparent multiwall polycarbonate sheets have been selected mainly due to their good thermal insulation.



The material is used in a new greenhouse of a local farming corporation called VEGI-Dream Kuhara. Photo: © Bayer MaterialScience

The reconstruction project led by Toyota aims at making agricultural production more environmentally friendly and sustainable. Hence, the new greenhouse is using waste heat from a nearby Toyota automobile plant for warm water generation. The greenhouse serves for growing paprika for domestic use.

Since more than 90 percent of the Japanese paprika market consists of imported products, the project also aims at increasing the self-sufficiency of the population with agricultural goods.

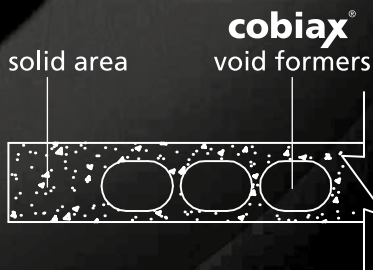
The selected plastic sheets are lightweight, durable, easy to install and - as distinct from glass - unbreakable. "Bayer's polycarbonate offers multiple benefits for the construction industry," said Kimiyasu Yonemaru, Senior Country Representative for Bayer MaterialScience in Japan.

The material is not only used in agricultural infrastructure but also elsewhere in the construction sector – for instance in roof constructions such as those of the national stadium of

Brasilia, Brazil or the Baltic Arena in Gdansk, Poland which was used in last year's European Soccer Championships. Other application areas are in transportation, consumer electronics and medical technology. ■

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SIA celebrates 50th anniversary



SIA council members for 2013/2014. Photo: © Singapore Institute of Architects

Singapore – On May 10th 2013, the Singapore Institute of Architects (SIA) celebrated its 50th anniversary Gala Dinner at Resorts World Convention Centre. At the event, which was attended by more than 1,500 people and Guest of Honour Mr S Iswaran, Mr Theodore Chan, SIA President 2013/2014 recalled the Institute's history and its main achievements. He also acknowledged the contribution of the past SIA presidents and the committee members for shaping the architecture in Singapore.

In his speech, Mr Chan said: "We have done and achieved a lot these past 50 years; But there's still a lot more to do. The harvest is plenty, but the labourers are few. Our future is bright, sustainable building technologies and productivity in design will drive the industry and architects will pervade it. There will be more room for specialisation but at the heart of it all will be the Architect - Master Builder empowered with the basic skills of Design, Regulatory Compliance, Contract Administration."

The event also saw the launch of "I AM ARCHITECT" Campaign; SIA 50th Anniversary Book; and SIA new website and SA website. A number of awards were also presented during the gala dinner and they included the presentation of Student Medal Awards; Fellow Certificates & Fellow (Life) Certificate; Distinguished Patron of Architecture and Token of Appreciation to SIA Strategic Partners; and Gold Medal Award.

SIA Strategic partners were also honoured and they included Geberit, Far East Organisation, Hunter Douglas, Rigel, Elmich, Optiled, ROCA, Uniseal, Multibuild, and BST Global. ■



Guest-of-honour Mr Iswaran cutting the cake during the celebration. Photo: © Singapore Institute of Architects

TÜV SÜD PSB appoints Richard Hong as Chief Executive Officer



Richard Hong

Singapore – TÜV SÜD PSB announced that Richard Hong will succeed Chong Weng Hoe as Chief Executive Officer for TÜV SÜD PSB ASEAN. He will assume full operational and management responsibilities of TÜV SÜD PSB with effect from 1 July 2013.

Mr Hong has over 18 years of experience in product certification and international compliance management for information technology equipment, home appliances, wireless products and audio-visual (AV) products. In his most recent role as Chief Operating Officer of TÜV SÜD PSB ASEAN, Mr Hong was responsible for driving TÜV SÜD PSB's businesses and operations in the ASEAN region including Singapore, Indonesia, Malaysia, Philippines, Thailand and Vietnam.

Being both customer and employee-centric, Mr Hong's personal management style has led him to be the choice for the role of Chief Executive Officer. With strong knowledge and experience acquired within and outside of TÜV SÜD PSB, he was instrumental in spearheading the growth of the Industry Service business in ASEAN as well as building new competences in TÜV SÜD PSB. In addition to his contributions, he has been successful in developing first-class teams and building good customer relationships.

Mr Hong commented: "It has been an immensely exciting and hugely rewarding experience with TÜV SÜD PSB and I've worked with some of the most talented and driven people in the industry. I believe that we can create more milestones and scale greater heights together in the years to come." ■

ThyssenKrupp poised for growth in Asia Pacific

Regional headquarters to be set up in China, India and Singapore.

Hong Kong – ThyssenKrupp AG, a diversified industrial group headquartered in Essen, Germany, has a long history in Asia. The Group began in India in 1860, in Australia in 1865 and in China in 1866. Over the course of its operations in the Asia Pacific region, ThyssenKrupp has continually leveraged its role to provide solutions and services for sustainable value creation to customers both regionally and around the world.

In fiscal year 2011/2012, the Group generated sales in Asia Pacific of about €4.3 billion, representing almost 12 percent of ThyssenKrupp's total sales. Within the region, China and India are the most important markets, with the Group generating sales of €2.7 billion in these countries, or 63 percent of all regional sales. Correspondingly, China and India are also ThyssenKrupp's most important regional bases, with 18,000 employees working in these two countries, representing 78 percent of its workforce in Asia Pacific.

ThyssenKrupp comprises five business areas: Components Technology, Elevator Technology, Industrial Solutions, Materials Services and Steel Europe. Currently in Asia, the growth in light vehicles is driving demand and growth in the Components Technology business, and rapid urbanisation across the region and the resulting infrastructure development is driving the Elevator Technology and Industrial Solutions businesses, which together contribute to more than 25 percent of overall revenues. The Group is concentrating its efforts in these business areas and customising its offerings to incorporate energy efficiency, renewable energy and green manufacturing to address current and future regional needs.

In recognising the need to stay ahead of the market opportunities that a globalised supply chain and consumer base provides and to be more cost-effective, the Group is streamlining its organisational structure from a traditional legal structure into a more direct management model focused on being even more



ThyssenKrupp AG Headquarters in Essen, Germany.
Photo: © ThyssenKrupp

responsive to customers and where they are based.

For the first time in the history of ThyssenKrupp, management teams and headquarters are defined for the Group's five core regions of North America, Brazil, India China, and Asia Pacific. When the regional headquarters are set up, they will comprise a matrix of functions, businesses, regions and shared services.

Asia Pacific, with its collection of growth markets, is an important and integral part of ThyssenKrupp's ongoing strategy and the Group aims to continue with strategic investments and acquisitions to grow the region's contribution to global revenues. Thus, the Group has only recently announced to base its Asian headquarters in Singapore which will start operations in October 2013 to manage Southeast Asia, Australia/New Zealand, Japan and South Korea markets, whereas a regional headquarters in Beijing has already been established and one in Mumbai is currently being set up. ■

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Exhibitors express strong enthusiasm for the 2013 edition of ISH Shanghai & CIHE

International Heat Pump Industry Forum officially confirmed for 2013 show.



Shanghai, China – With just two months to go, interest among top domestic and international industry players remains strong for the 2013 edition of ISH Shanghai & CIHE – Shanghai International Trade Fair for Heating, Ventilation and Air-Conditioning. The event, co-organised by Messe Frankfurt (Shanghai) Co Ltd, Beijing B&D Tiger Exhibition Co Ltd, Shanghai Zhanye Exhibition Co Ltd and Shanghai Pudong International Exhibition Corp, is scheduled to run from 25-27 September 2013, and be held once again at the Shanghai New International Expo Centre. Over 150 exhibitors are expected, in addition to more than 10,000 trade buyers from China and overseas.

In an effort to provide a comprehensive platform for energy-efficiency and intelligent green building technologies, ISH Shanghai & CIHE 2013 will be held concurrently with the two events, Shanghai Intelligent Building Technology and the Shanghai Building Water, Water Treatment Technology and Equipment Expo. Collectively, the three shows will highlight notable suppliers of products including wall-hung boilers, floor-heating devices, heat pumps, heat meters, solar energy systems, fresh air and air-conditioning systems, water supply and drainage systems, valves, pipes, accessories as well as building automation, smart home management and control systems and much more.

The show has confirmed a number of the world's leading HVAC suppliers for its 2013 edition. While some of them are already familiar with the Chinese market thanks to the well-established ISH China & CIHE brand, there are also several newcomers who see the numerous opportunities the increasingly affluent Eastern and Central China regions have to offer. Some of the confirmed brands for the 2013 show currently include, Avonflow (China), BARTEC (Germany), Daewoo (Korea), Devotion Squirrel (China), Difanxi (China), Enelco (Austria), Hydro (Norway), Keidel (Germany), KD Navien (Korea), Menred (Germany), Osiman (China), Plastica Alfa (Italy), Regent (Hong Kong, China), SGL (Germany), SIRAC (China),

Valvosanitaria Bugatti (Italy) and Zehnder (Switzerland).

Specialising in civil heating products, the German brand, BARTEC Explosion Proof Appliances (Shanghai) Co Ltd chose ISH Shanghai & CIHE as the gateway for their expansion goals in China. Mr Wang Zhaohui, Director of Electric Heating & Engineering shared: "As a first-time exhibitor to the show, our plan is to tailor the BARTEC brand to our potential Chinese customer base's needs through this platform."

Weihai Ploumeter Co Ltd, a domestic brand famous for heat meters and intelligent temperature control products, decided to join the Shanghai show following their success at ISH China & CIHE. Mr Ren Zhen, Marketing Manager at the firm noted: "ISH Shanghai & CIHE is quickly gaining important influence and a great reputation in China's East and Central regions. My company is now looking for new business opportunities due to the fast growing heat meter market. I believe the Shanghai fair will serve as the best destination for us to approach the market and promote our products."

International Heat Pump Industry Forum officially confirmed for 2013 show

As the world's economies struggle to find new solutions for environmental sustainability, greater emphasis is being placed on new energy development through low-carbon and energy-saving technology. In China, based on reports from the Central Government, green and intelligent technology-based products and solutions will make a considerable impact

in the country's HVAC industry for the foreseeable future. One product quickly gaining strong demand in the domestic market is heat pumps.

In order to explore and unlock the various potentials of heat pump technology, ISH Shanghai & CIHE's organisers, along with the cooperating organisations of the China Committee of Heating, Ventilation and Air-Conditioning, International Institute of Refrigeration, IEA Heat Pump Center and the Chief Engineer National Estate Clubs, will hold the International Heat Pump Industry Forum at the 2013 show. The forum will serve as a meeting place for government officials, associations, businesses and industry experts to share their views on the future development of heat pump technology, network with device manufacturers and buyers as well as analyse the country's policies towards heat pump development.

ISH Shanghai & CIHE is part of Messe Frankfurt's building and energy fairs, headed by the biennial ISH show in Frankfurt, the world's leading trade fair for the Bathroom Experience, Building, Energy, Air-conditioning Technology and Renewable Energies, with its next fair taking place from 10-14 March 2015.

Furthermore, the next edition of ISH China & CIHE – China International Trade Fair for Sanitation, Heating, Ventilation and Air-Conditioning is scheduled to be held at the New China International Exhibition Center from 13 – 15 May, 2014 in Beijing, China.

For more information, please visit www.ishc-cihe.com or e-mail info@ishc-cihe.com. ■



Photo: © Messe Frankfurt (Shanghai) Co Ltd

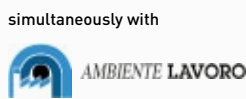
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Phoenix Solar to build 1.8 MWp solar power plant in Saudi Arabia

Singapore – Phoenix Solar AG has announced that its Oman and Singapore subsidiaries are jointly executing a 1.8 MWp solar power plant on the grounds of KAPSARC (King Abdullah Petroleum studies and Research Center) in Riyadh, Saudi Arabia, and home to the world's largest oil research facility.

The KAPSARC II project is contracted by Saudi Aramco, and will extend the existing solar plant from 3.5 MWp to 5.3 MWp – also built by Phoenix Solar –, making it the largest ground mounted system in the Kingdom. The project supports KAPSARC's objective to achieve LEED Platinum Certification (Leadership in Energy and Environmental Design). The system is scheduled to become operational in the first half of 2014.

Phoenix Solar Oman and Phoenix Solar Singapore, together with local project partner Hi-Technology & Contracting Company Ltd ("Hi-Tech"), will be jointly responsible for the design, procurement, construction and commissioning of the 1.8 MWp solar power plant.

Upon completion the plant will cover around 2.6 hectares of desert land, and feed over 2,900 megawatt hours a year directly into KAPSARC's medium voltage grid.

"The Middle East is a fast growing region, with potentially high demand for solar energy in the future," said Dr. Bernd Köhler, Chief Executive Officer of Phoenix Solar AG. "With this new order in hand we will strengthen the Oman office, which will operate with the support of Phoenix Solar Singapore. Both subsidiaries will combine experience and know-how to apply the best solutions to accommodate the harsh desert climate conditions of this region and to continue building high performance solar power plants."

With an increasing market portfolio, Phoenix Solar continues its business expansion, strengthening at the same time its position as an international photovoltaic EPC company. ■



Existing PV System at KAPSARC. Photo: © Phoenix Solar

Design-Environment Group Architects wins Wisma Geylang Serai design competition



Photo: © People's Association

Singapore – Design-Environment Group Architects has won the design competition for Wisma Geylang Serai (WGS). In February 2013, People's Association together with the Singapore Institute of Architects launched an architectural design competition for the development of WGS.

WGS has been envisioned as a forward-looking and cosmopolitan civic centre, which will celebrate the heritage of Geylang Serai, and will be a window into the rich Malay arts and culture. It will be a landmark in Geylang Serai precinct with a community lifestyle, providing spaces and facilities for a wide range of community activities and services. It was felt that this landmark project is best achieved through a design competition process.

The two-stage design competition for WGS attracted 56 entries. It is one of the highest levels of interest registered for design competitions facilitated by SIA, reflecting great interest in a project of such significance. The selection went through a rigorous process of technical evaluation, followed by Jury session to shortlist 5 best schemes to proceed to stage. The shortlisted schemes

were further developed taken into consideration inputs from the Jury Panel. Stage 2 was another rigorous technical evaluation and jury session to select the winning scheme, followed by final evaluation by a credible Jury Panel, comprising architects, community leaders and users.

According to the jury panel, the design of WGS struck a balance in featuring both contemporary and traditional elements. The design's use of the double-pitched roof is clearly influenced by traditional Malay houses and complements well with the adjacent Geylang Serai Market. At the same time, the design demonstrates a contemporary feel in its spatial planning, drawing inspiration from the "serai" plant to "ketupat" and "serambi" (means verandah in Malay language) on stilts. It weaves and integrates multi-functional spaces and facilities into a cohesive overall design. This winning design, the jury panel believed, will help to both amplify the distinctive identity of Geylang Serai and strengthen its urban character. ■



Photo: © People's Association



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Genting Singapore breaks ground on new hotel

Group to build the first hotel in Singapore's Jurong Lake District.

Singapore – Genting Singapore has broken ground on its new hotel in western Singapore, along Jurong Town Hall Road. Slated to open in the first half of 2015, Genting Singapore's latest property development will be the first hotel to open in the Jurong Lake District which has been earmarked by Singapore's Urban Redevelopment Authority as a new growth area with commercial, business and leisure facilities.

Tan Sri Lim Kok Thay, Chairman of the Genting Group and Executive Chairman of Genting Singapore said, "This hotel signifies our commitment to reinvesting in Singapore, where Resorts World Sentosa (RWS) is based. Since opening RWS in 2010, we have transformed the tourism landscape in Singapore, and participated actively in the country's social and community causes. With our hotel being the first to open in this growing precinct, we hope to create another unique hospitality product that will crank up the buzz meter in this already vibrant area to even higher levels. This will be a new landmark in the Jurong Lake District."

The hotel has a site area of 9,027 square metres and a lease period of 99 years. Located 5 minutes from the Jurong East Mass Rapid Transit station, it is situated close to the International Business Park cluster of offices, as well as popular shopping malls such as JCube and Jem. Designed for both business and



Executives from Genting Singapore and Low Keng Huat (Singapore) Limited, at the groundbreaking ceremony of Genting Singapore's new hotel development in the Jurong Lake District. The groundbreaking ceremony was held on 11 July 2013 at the auspicious hour of 7.50am.

Left to right: Dato' Marco Low, Managing Director, Low Keng Huat (Singapore) Limited; Ms Lee Shi Ruh, Chief Financial Officer, Genting Singapore; Mr Koh Seow Chuan, Independent Director, Genting Singapore; Mr Tan Hee Teck, President and Chief Operating Officer, Genting Singapore; and Mr Low Keng Hoe, Deputy Managing Director Low Keng Huat (Singapore) Limited. Photo: © Genting Singapore

leisure visitors, the 550-room hotel will have a contemporary look, with clean-line furnishings. Besides club rooms for business executives, the hotel room inventory will include family rooms that can each comfortably accommodate families of four.

To complement the lush tropical lakeside setting close to the Jurong Lake, the architects adopted a "hotel in a garden" theme incorporating extensive landscaping and greenery, as well as

roof gardens and sky terraces for guests to enjoy expansive views of the Jurong Lake District. Extensive open spaces such as courtyards and gardens will be found in many parts of the hotel. The hotel's facilities include an all-day dining restaurant and a 24-hour deli, a swimming pool, a gym, a launderette, meeting rooms and a ballroom. Connectivity features strongly, with complimentary wifi offered throughout the hotel, as well as internet stations and media pods in the lobby.

Mr Tan Hee Teck, President and Chief Operating Officer of Genting Singapore said, "We are excited to be the first hotel investor in the Jurong Lake District. Our flagship Resorts World Sentosa is one of the most successful integrated resorts in the world today, and the Jurong Lake Precinct should expect nothing less from this hotel in its category. We will deliver a product that will bring incremental business to neighbouring merchants, accommodation convenience to companies in the vicinity, and amenities to Jurong West residents. We will deliver an exciting property.

The hotel will be the seventh hospitality development for Genting Singapore, which currently owns six hotel properties at RWS: Crockfords Tower, Hotel Michael, Festive Hotel, Hard Rock Hotel Singapore, Equarius Hotel and the Beach Villas. ■



Artist's impression of Genting Singapore's latest hospitality development, slated to be the first hotel to open in Singapore's Jurong Lake District in 2015. Photo: © Genting Singapore



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Tsurumi Pumps Japan and Heng Asia to exhibit at CAMBUILD 2013 exhibition



Phnom Penh, Cambodia – Tsurumi Pump Japan and Heng Asia will be among the 300 exhibitors that will be represented at the 3rd edition of CAMBUILD – Cambodia's biggest International Building & Construction Exhibition & Conference. Supported by the Ministry of Commerce, the Ministry of Land Management urban planning and Construction and hosted by the Board of Engineers of Cambodia and the Cambodia Constructors Association, the CAMBUILD'13 will feature a record number of overseas companies.

Over 60 percent of exhibitors will come from Japan, Korea, Thailand, Taiwan, Malaysia, Singapore, India and China. They will be at the exhibitions to showcase a complete range of products and equipment for the building, construction and infrastructure industry. The exhibition is opened to developers, contractors, architects, building consultants, M&E engineers, civil engineers, building

managers, retailers and distributors.

CAMBUILD'13 will be co-located with 5 industry related shows including CAMWATER 2013 – the International water and wastewater technology exhibition, CAMSECURITY 2013 – the International security, safety and fire protection exhibition, CIVAR 2013 – the international ventilation and air-conditioning technology exhibition, CAMENERGY 2013 – the international electrical engineering exhibition and the CAMBODIA INTERNATIONAL PROPERTY SHOW. "We are pleased that many more international companies are exhibiting at CAMBUILD this year as it will provide those in the building & construction industry with new ideas and innovative products. In addition, CAMBUILD'13 can provide many new business opportunities and support the development of the country," said Mr Richard Yew, Regional Director of AMB Events Group which is the event organiser.

"If you want to get updated on the latest developments and advances in building, construction, water management, air-conditioning, electrical installations and property, you are invited to visit the Exhibition. You can also sign up for the Free Technology Seminars themed "Innovations & Solutions In Building, Construction & Infrastructure Development"," added Mr Yew.

HENG ASIA is the largest supplier of home products that range from sanitary ware and kitchenware to water treatment system in Cambodia. The company will be at CAMBUILD'13 to showcase many brands such as Hansgrohe, a luxurious sanitary fitting brand from Germany and Kohler, a high-end sanitary ware brand from America.

Another exhibitor, Tsurumi has achieved successes in fields including construction, civil engineering, mining, industrial wastewater, domestic wastewater, sewage treatment and flood control. Today Tsurumi has expanded its bases of operations and is active in 45 countries and regions. In addition to supporting a variety of worksites, our high-performance pump products are widely used in large-scale national projects, where they fulfill their roles reliably.

CAMBUILD '13 will be held for three days from 10-12 September 2013 at Diamond Island Exhibition Centre (Koh Pich) from 10.00a.m to 7.30pm on 10-11 September 2013 and 10.00am to 6.30pm on 12 September 2013. The Exhibition is open to trade and professionals and persons over the age of 18.

For more information, please contact the organiser at tel (+855) 2321 0806 or e-mail nary@ambexpo.com or visit www.expocambodia.com. ■



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CASAIIS Group selects ZWCAD+ for real estate and architectural projects

Guangzhou, China – ZWSOFT, a leading supplier of CAD/CAM solutions for the AEC and MCAD industry, Tuesday announced that their highly cost-effective CAD design software ZWCAD+ had been selected by CASAIIS Group with its superior operational fluency and strong format compatibility. ZWCAD+ is currently being used in real estate and architectural projects to improve their design efficiency and project quality.

CASAIIS' projects cover fields such as public, industrial and sports buildings, most of which require complex and huge drawings, and therefore the processing speed for big projects is the most important consideration in the selection of CAD software. As an architecture enterprise, CASAIIS frequently cooperates with many other design teams on a single project, so it expects design software with a strong format compatibility to ensure design accuracy and enhance team productivity. Besides, the price is another factor for decision since better performance-price ratio will directly impact on their business, helping them drive up profits and reduce expenses.

After a long-term search for cost-effective software to meet all of its needs, CASAIIS was finally impressed by the excellent quality of ZWCAD+ after the trial use and live demo. ZWCAD+ has expertise in the area of great memory control and strong compatibility, and the



EPIC SANA Algarve Hotel in Albufeira. Photo: © CASIAS

new memory optimisation technology also enables ZWCAD+ to open and edit a huge drawing smoothly. With a stronger .dwg compatibility, seamless cross-platform communication is easier than ever before.

"ZWCAD+ provides us a much faster processing and navigation over large projects," said Mr Guilherme, CIO of CASAIIS Group. "Together with a very competitive price for the organization, it really helps maintain and improve the quality of our work," he added.

The service of ZWCAD+ does not end with purchase and installation.

Ibercad, the authorised distributor in Portugal, provides the professional technical support to help CASAIIS make optimal use of the software. The distributor also regularly organises seminars and workshops through which CASAIIS can find solutions and exchange ideas together with Ibercad. "Their technicians are skilled both in CAD and AEC industries. In addition to the technical aspects, they can make affordable proposals targeting different users, based on their industrial knowledge, from project execution to cost estimating or budgeting," said Mr Guilherme. ■

World's first green library for kids opens in Singapore

Singapore – "My Tree House", claimed to be the world's first green library for kids, opened its doors on 31 May 2013 at the Central Public Library in Singapore. The National Library Board (NLB) and City Developments Limited (CDL) have jointly presented this special library that will encourage children to explore, discover and challenge their curiosity in learning and caring for the environment.

Officially opened by Dr Yaacob Ibrahim, Minister for Communications and Information, "My Tree House" will serve as a resource centre in facilitating environmental literacy for children.

Mrs Elaine Ng, Chief Executive Officer of NLB said: "NLB is continuously looking for new and innovative ways to create unique identities for our libraries and better serve our customers. We are happy to collaborate with CDL and its partners to create our first green library for kids. We have created this special library for children to see, read, touch and experience a magical journey into learning and caring about the environment."

Mr Kwek Leng Joo, Managing Director of CDL said: "NLB and CDL share a common vision and passion. We tapped on each other's strengths and expertise to create a completely green



Students from My First Skool take their first visit to 'My Tree House' – the world's first green library for kids, accompanied by Minister for Communications and Information, Dr Yaacob Ibrahim, Chief Executive Officer of National Library Board (NLB), Mrs Elaine Ng, and Managing Director of City Developments Limited (CDL), Mr Kwek Leng Joo. Image courtesy of National Library Board

and innovative library conducive to ignite in young minds, a love for nature. CDL has also brought together 11 other equally like-minded collaborators who have embraced this project with fervour. Being experts in their individual fields, our partners have made invaluable contributions to bring to fruition "My Tree House" – a truly exceptional green showcase for Singapore. As CDL celebrates our 50th anniversary this year, we take pride as a Singapore-grown company, to be able to make a positive community contribution with sustained impact to the benefit of our nation."

Aptly named after the centerpiece, which features a tree house structure constructed with recyclable materials, the library is designed specifically with children in mind. NLB hopes to cultivate children's interest in environmental conservation through reading, discovering, and engagement in green activities, and nurture them to be environmentally-conscious adults.

Purposefully conceptualised, constructed and operated with environmental sustainability in mind, "My Tree House" is claimed to be the first library in the world to be steered by green principles in all facets from design, infrastructure and use of sustainable materials, to collection and programming. Eco-friendly building materials such as energy-efficient LED lighting, refurbished bookshelves and carpets with green properties were used. The canopy of the tree house centerpiece is built and installed with over 3,000 recycled plastic bottles collected from the public, schools and visitors to City Square Mall.

At "My Tree House", children can learn about the environment through a multi-sensory experience. They can

interact with The Knowledge Tree, which is a shadow play wall, to learn about the environment and energy conservation. Budding meteorologists can also discover Singapore's temperature, rainfall and wind speed "live" through The Weather Stump which charts real-time weather information provided by the Meteorological Service Singapore.

With the green library's collection of 45,000 books, children will have a wider variety of green themed books to borrow and read. A significant 30% of these books will focus on green topics such as animals, plants, nature, water resources, weather, environment, recycling and climate change.

Children can take part in an interesting line-up of green themed programmes, for which NLB is partnering other public agencies such as the National Climate Change Secretariat, National Environment Agency and National Parks Board.

"My Tree House" has received the BCA Green Mark Platinum Award. The award is the highest tier for green buildings in Singapore, for its unique sustainable properties. The green library is housed in the iconic National Library Building which first received the Green Mark Platinum Award in April 2005 and subsequently in March 2009. This is the highest honour for green buildings in Singapore bestowed by the Building and Construction Authority (BCA). In July 2007, the National Library Building also won the first prize in the ASEAN Energy Efficiency Awards under the "New and Existing Building" category. In May 2007, the Building was given the Silver Award in the Universal Design Award from BCA, for its wide spaces, good lighting, accessibility and clarity in wayfinding. ■

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Sustaining the green building movement: Singapore pushes “Build Green and Live Green”

The Singapore Green Building Week is set to fuel the growing green movement in Asia with an expected attendance of 10,000 local and international participants from over 30 countries.

Singapore – The Singapore Green Building Week (SGBW) is set to fuel the growing green building movement in Asia through a series of international events that bring together global green building experts, built environment industry leaders and policy-makers in a collaborative effort to create more sustainable built environments. Bringing together three mega green building events in a single location, this year’s SGBW is expected to attract more than 10,000 participants from 30 countries.

The Building and Construction Authority of Singapore (BCA) will partner Reed Exhibitions to host the International Green Building Conference (IGBC) alongside the Build Eco Xpo Asia (BEX Asia) and the inaugural World Engineers Summit (WES), with the Singapore Green Building Council (SGBC) as a strategic partner. The events will be held from 9 to 13 September 2013 at the Marina Bay Sands Expo & Convention Centre (Halls A – B) in Singapore as part of SGBW.

Singapore’s push for sustainable development and green buildings has continued to grow from strength to strength since the release of the first Green Building Masterplan in 2006. In a recent report on World Green Building Trends, by McGraw Hill Construction, Singapore firms recorded the highest level of green involvement compared to other global firms in 2012, with 64 percent engaging in at least 60 percent or more green projects, as compared to 28 percent among their global counterparts. By 2015, this figure is estimated to reach 89 percent.

Dr John Keung, CEO of BCA, remarked: “Achieving a truly sustainable built environment is not the sole responsibility of one sector or one agency, nor can it be achieved in isolation. A Public Private and People (PPP) partnership is critical to help drive Singapore’s green agenda going forward through collaborative efforts between private sector and government, profit and non-profit organisations, countries and individuals. This year’s SGBW has brought three stellar Green Building events in one location, providing an extensive platform that cuts across industries, sectors and professions, in a concerted effort to tackle green challenges in the region and in Singapore.”

An annual event, IGBC 2013 continues to build on the vision set out by the Second Green Building Masterplan of Singapore as a lively yet highly liveable and sustainable global city with this year’s theme, “Build Green, Live Green”. The conference aims to provide a platform to discuss sustainable living strategies and explore green building solutions to achieve a greener Asia. At the same time, IGBC 2013 also seeks to inspire a holistic focus on environmental sustainability driven by industry partnerships across the value chain. It will feature dedicated conference topics on green building design, trends and urban solutions, as well as a showcase of the latest green technology and innovation from the region. In particular, business leaders can look forward to special business-focused sessions including, a high-level CEO Roundtable discussion on the Value of Green to Corporations.

IGBC 2013 is expected to attract more than 1,000 participants from over 30 countries - drawing policy-makers, industry practitioners and research experts from countries such as Australia, China, Germany, India, Japan, Philippines, Singapore, the United Kingdom and the United States.



International Green Building Conference 2013 Singapore

Participants can look forward to insights and best practice learnings from an impressive line-up of speakers which include renowned industry leaders such as Mr Harvey Bernstein, Vice President, Industry Insights and Alliances, McGraw-Hill Construction; Mr Gary Lawrence, Vice President and Chief Sustainability Officer, AECOM; Mr Christoph Ingenhoven, Architect and Founder, Ingenhoven Architects and Ms Jane Henley, CEO, World Green Building Council.

Following the success achieved the previous year, the BCA-SIA-SGBC1 International Tropical Architecture Design Competition for Institutes of Higher Learning is back again with the theme of “Live, Study, Play – Our Green Campus”. As sustainable developments are no longer an option, but a necessity for us and our future generations, this competition sets out to raise the awareness to climate change and encourage students – our future leaders – to recognise the importance of sustainability and adopt a green mindset from an early age. Participants can expect to see innovative green building designs conceptualised and produced by students from around Asia on display. At the same time, students participating in the competition stand a chance to win cash prizes and internship opportunities with the competition’s main sponsor, Surbana International Consultants Pte Ltd at its regional offices.

As part of IGBC, the popular BCA Green Mark Eco-Tours are back. Participants can look forward to visiting some of latest Green Mark certified facilities such as the W Hotel and Quayside Isle (hotel and F&B), Jem Retail Mall (shopping mall), CleanTech Park Central Green Core (District), TreeTop Executive Residences (service apartment), amongst others.

BEX Asia 2013 – Advocating Energy Efficiency

Held in conjunction with IGBC, BEX Asia is the key green show in the region that promises a multi-disciplinary showcase of the latest green solutions for residential and commercial developments. Over 8,000 industry professionals from 28 countries attended the event last year. This year’s event is expected to draw some 10,000 visitors from 30 countries.

Noting an increase in demand for energy efficiency solutions, BEX Asia 2013 will see a brand new Energy Efficiency Trail that aims to offer a comprehensive range of green solutions from green system software to Heating, Ventilation and Air-Conditioning (HVAC) systems. On this trail, participants learn more about advances in green technologies and solutions.

On top of a greater depth in energy efficiency content being offered this year, BEX Asia 2013 will also provide greater

business opportunities and see new country participation from Japan and Switzerland, who will be exhibiting as national pavilions for the very first time. In particular, Japan External Trade Organisation (JETRO), a government-affiliated organisation, will be leading more than 15 Japanese companies to BEX Asia 2013.

WES 2013 – Gathering the International Engineering Community

Rounding off the trio of events is the World Engineers Summit, which also features the World Engineering Expo (WEE), will be hosted for the first time at SGBW. Specially customised for the engineering community, WES 2013 aims to bring together engineers from multiple disciplines and climate change specialists from all over the world to share ideas and insights

on climate change. The week-long event will include the World Federation of Engineering Organisations (WFEO) General Assembly 2013 and committee meetings.

Ms Louise Chua, Project Director of Reed Exhibitions said: "We are excited to have the co-location of BEX Asia with IGBC and WEE/WES. With three events under one roof, it will allow visitors easy access to every aspect of the green sector, reaching out to various players in the green industry – from thought leaders to exhibitors who provide specific green solutions. The co-location of these events also reflects the holistic approach adopted by industry players in creating a truly sustainable built environment for all."

More information about the Singapore Green Building Week, BEX Asia and the World Engineers Summit are available at www.sgbw.com.sg, www.bex-asia.com and www.wes2013.org. ■

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New Complex System Modelling Tool enhances HDB's town planning efforts

Singapore – The Housing & Development Board (HDB) signed a Research Collaboration Agreement (RCA) with leading European companies Electricite de France (EDF) and Veolia Environnement Recherche et Innovation (VERI) on 14 June 2013 during the World Cities Summit (WCS) Mayors Forum held in Bilbao, Spain.

This signing, supported by the Economic Development Board (EDB), marks the beginning of a collaboration to develop a complex system modelling tool that will greatly improve HDB's current approach towards town planning. Future residents in new towns such as Punggol, Bidadari, Tampines North and Tengah could stand to benefit from this tool's ability to make effective urban planning decisions that will lead to a better living environment for residents in Singapore.

This computer modelling tool has the ability to simulate various built environments and to recommend an optimal scenario to meet the desired outcome of the living environment. This is particularly useful for town planners because they cannot afford experimentation with actual developments in land scarce Singapore. The tool will reduce the risk of physical trial and error by providing a virtual platform for testing a planned environment before developments are actually implemented.

For example, the computer model can simulate the various new urban solutions introduced to drive energy efficiency, effective waste management, water recycling, rainwater collection, thermal comfort and efficient transportation networks. Planners can then choose the optimal combination of solutions to achieve the desired sustainability targets.

HDB can also test out various housing typologies and determine how best to site the new flats to optimise wind flow, or to minimise heat and glare. The tool can help study the most effective way to place the solar panels on the rooftops, which in turn could influence the way the buildings are orientated and designed.

Besides simulating and modelling 'hardware' initiatives, understanding the behaviour of the residents is another important aspect in this research collaboration. The behaviour of residents can have a significant impact on the sustainability performance of the 'hardware' initiatives and therefore also needs to be taken into account.

The design of public housing will continue to evolve, with more attention paid to design in order to add character and identity to the towns. New housing typologies will also be introduced to ensure liveable towns even as HDB builds in a high density environment. The complex system modelling tool complements HDB's design efforts. It is an intelligent tool that will help HDB to derive the best combination of strategies using design, innovative technologies and influencing social behaviour so as to shape a good quality living environment for residents. Overall, it represents a new generation of tools to build smarter cities.

Dr Cheong Koon Hean, Chief Executive Officer of HDB, said: "HDB is pleased to embark on this collaboration with EDF and Veolia to develop this new modelling tool. This is a sophisticated tool that will simulate complex urban scenarios and help HDB planners analyse and determine the best combination of strategies using both design and technological solutions. Ultimately, it will help us create a better living environment that will benefit our residents."

The WCS Mayors Forum, co-organised by Singapore's Centre for Liveable Cities (CLC) and Urban Redevelopment Authority (URA) was held from 13 to 15 June 2013. It was a platform for over 100 city leaders, international organisations and urban solutions companies to discuss common urban challenges and share best practices in building liveable and sustainable cities. ■

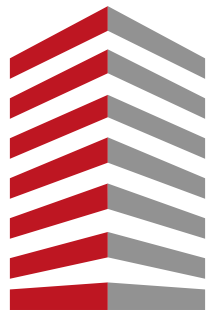


(From left to right) Mr Peter Ho, Urban Redevelopment Authority (URA) Chairman, Mr Liu Thai Kher, Centre for Liveable Cities (CLC) Chairman, Mr Johnny Wong, Group Director of Housing & Development Board Building Research Institute, Mr Khoo Teng Chye, Centre for Liveable Cities (CLC) Executive Director, Dr Cheong Koon Hean, HDB Chief Executive Officer (CEO), Mr Ng Lang, URA CEO, Mr Ibon Areso, Deputy Mayor of Bilbao City Council, Mr Pascal Terrien, Director (Sustainable Cities Programme), EDF-R&D, Mr Khaw Boon Wan, Minister (National Development), Mr Francois Molho, Director of Communication, EDF-R&D, Mr Bernard Salha, Senior Vice President, EDF, Mr Francois Grosse, Senior Vice President, Veolia Environnement Photo: © HDB



(From left to right) Background, standing: Mr Johnny Wong, Group Director of HDB Building Research Institute, Mr Pascal Terrien, Director (Sustainable Cities Programme), EDF-R&D, Mr Francois Molho, Director of Communication, EDF-R&D

Foreground, sitting: Dr Cheong Koon Hean, Chief Executive Officer, HDB, Mr Bernard Salha, Senior Vice President, EDF, Mr Francois Grosse, Senior Vice President, Veolia Environnement Photo: © HDB



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New Integrated Construction and Precast Hub to boost precast production for building demands

Singapore – SEF Group Ltd (SEF) has announced the development of their first Integrated Construction and Precast Hub (ICPH) at Kaki Bukit on 29 July 2013. The ICPH is the first to be awarded under a public tender by the Building and Construction Authority (BCA) as part of the government's initiatives to transform the industry to one that adopts highly productive technology and mechanisation.

Upon completion, the new ICPH will be equipped with state-of-art automated production line using advanced European Technologies, which will have an annual production capacity of more than 100,000 cubic metres of precast components. This is three times more than a conventional open precast yard. The factory setting not only speeds up the production process but also provides better quality control of the precast concrete products. The ICPH is also capable of producing more than 25 types of components, both structural, architectural as well as prefinished, preassembled products for use in both public and private sectors projects.

In land scarce Singapore, the concept of an integrated hub will allow a more efficient use of land. Besides the production of precast components, the 32,608 square metres five-storey building will also be used for related purposes such as offices and dormitories for the workers. The SEF's ICPH will be the first in Singapore to make use of a multi-tiered fully automated storage system. The storage system is capable of storing more than 100 trailers worth of completed components including bulky 3-D components such as household shelters. In addition, the system for tracking of inventory of precast components as well as the preparation prior to delivery, is also fully automated. SEF will be integrating advanced Building Information Modeling (BIM) software with the control and management software to gather installation updates from project sites to achieve a 'Just in Time' production, in order to cut down on storage space.

Dr John Keung, CEO of BCA said, "With our productivity drive towards off-site production, mechanization and standardisation, the demand for precast components will increase significantly in the next few years. The concept of the integrated construction and precast hub is suitable for Singapore as it allows us to intensify land use while ensuring production of high quality precast components. Such facilities will be the next step forward for our local precasters towards automation, process integration, improved quality and significant productivity improvement." BCA will be rolling out more tenders for new ICPHs, about two to three more this year, to boost the industry's capability and capacity in this area. Dr Keung urged those who are interested in the upcoming land tenders to look out for the announcements.

Ms Eileen Ng, Managing Director of SEF added, "We see automation as the way forward as there is a huge opportunity in making use of technology to meet construction needs. Prefabrication has been well-accepted locally but there is still potential to automate the processes to improve productivity. The ICPH gives us a platform on which we can integrate all technologies from design to production and delivery into seamless processes. This intensified development has sophisticated production lines to achieve large productivity gain."

Despite having a large production capacity, the ICPH will be adopting environmentally-friendly practices to cut down on water consumption, such as by recycling and treating rainwater and grey water (collected from wash basin and shower area) to industrial water for production use. The recycled water is expected to be able to fulfill daily production needs. In addition, there will also be a high efficient low energy heater, reducing energy consumption and boiling time by up to 50 percent, to produce hot water for production use. SEF will also be employing a more productive suspension concrete in their production, on top of normal concrete, which can help cut down the amount of cement, aggregate and water used by up to 30 percent.

SEF will be naming the ICPH, SEF SPACEHub, to reflect the company's focus on Sustainability through their core business in Prefabrication, Architectural, Construction and Engineering. The ICPH is expected to start its production next year. ■



Artist's impression of SEF Group's first Integrated Construction and Precast Hub (ICPH) at Kaki Bukit. Image: © SEF Group Ltd

Leading brick brand Daniel Robertson launches sophisticated new website

Sydney, Australia – Leading Australian brick manufacturer Daniel Robertson has launched a brand new website at www.danielrobertson.com.au. The website is a very useful resource for homeowners, builders and architects, providing the latest information in an easy to use and sophisticated format, to help them quickly find the products and information. Users of the website can now access a range of new images in the Design Gallery and search for case studies using products from the Daniel Robertson range for inspiration.

The site also allows visitors to be able to download CAD files of brick swatches, giving users the option to digitally put together designs, as well as save or print them. Other information available off the website includes downloadable product brochures and technical data, and comprehensive information on the Daniel Robertson company history, product ranges and stockists in Australia. Daniel Robertson manufactures a unique range of bricks and pavers that have retained their earthy character and beauty since their inception. The brand has long held the position of distinctive, specialised products that have a point of difference through their rustic, textured appearance.

The Daniel Robertson range of boutique, crafted bricks and pavers are synonymous with the architectural and housing regions of Australia, in particular Victoria. The brand is recognised as the most prestigious brick brand in Victoria with a history dating back to 1853. ■

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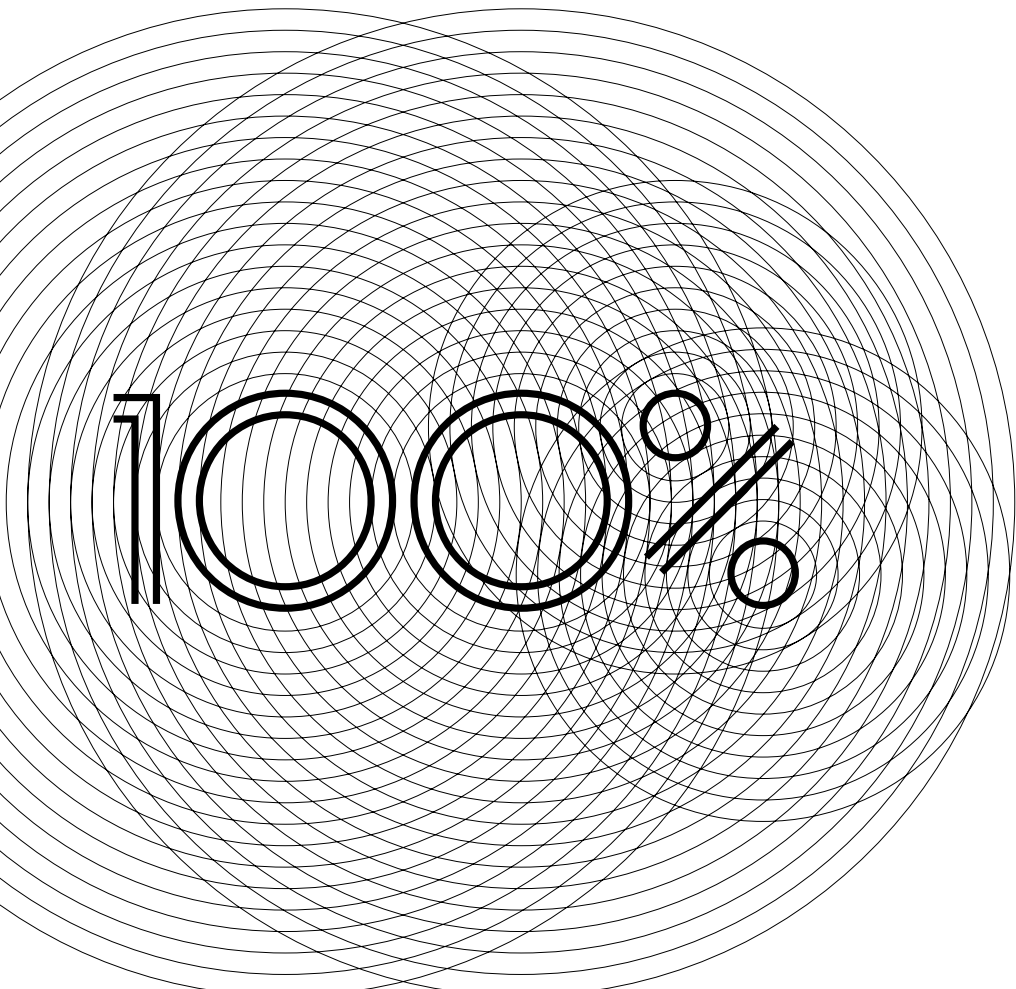
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Atkins to develop eco-low Carbon Urban Planning Guidance in China

Hong Kong – Atkins has won an important new commission to develop guidance for eco-low carbon (ELC) urban planning in China. Funded by the UK's Foreign and Commonwealth Office (FCO) Prosperity Fund and led by Atkins' sustainable planning team in Beijing, the project involves working with both national government agencies and city governments and is aimed at providing a key, high profile reference point for ELC urban planning in China. The Prosperity Fund brings together Chinese and British experts to develop low carbon policies, practices and regulations, with a growing focus on sustainable urbanisation.

China's emerging ELC urbanisation initiative forms a key component of the government's 12th Five Year Plan, which places strong emphasis on energy and resource efficiency, reducing GHG emissions and environmental protection. To date the emphasis has been more on developing demonstration areas, ELC technologies and, more recently, establishing sustainable planning evaluation frameworks. With the vast scale and scope of urbanisation in China, there is an unprecedented opportunity to build knowledge and experience of ELC urban planning approaches and methodologies. The project team will work in particular in partnership with local government in China to help achieve this.

Mark Hewlett, Atkins' project manager, said: "The project, which is closely aligned with Atkins' Future Proofing Cities initiative, will provide a clear, practical methodology for ELC urban planning which sets out approaches, methods, tools and techniques tailored for Chinese local government planning based on international best practice."

Supported by China's Ministry of Housing and Urban-Rural Development (MOHURD), which has responsibility for

green building and urban planning administration, the project team will work closely with two selected city governments to develop, test and apply the ELC guidance. The guidance will be designed to be closely integrated with China's statutory urban planning requirements, and cross-referenced to current ELC urban planning indicator systems. The project outputs will be strongly focused on hands-on use as an everyday working tool in a practical, 'on the ground' urban planning setting.

A Project Launch Forum and Seminar was held at the MOHURD-sponsored Urban Development and Planning Conference in Zhuhai on July 17 2013. Senior MOHURD and FCO officials, leading Chinese experts and leaders from a number of local governments participated in this event, which was jointly organised by MOHURD, Atkins and FCO.

Atkins has very strong expertise in urban planning in China with more than 15 years experience via more than 800 projects working with local governments and developers in most major and many smaller cities across the country. "Our ELC urban planning work integrates our planning expertise with the company's strengths in infrastructure engineering and building design. For this project we will draw on our extensive experience in ELC urban planning and design in China as well as similar work around the globe, including Meixi Lake Eco-city in Changsha, Hunan and Masdar City in Abu Dhabi," added Hewlett.

Atkins' masterplan for Meixi Lake represents a sustainable city model and is positioned to be 'the future centre of Hexi City' with an expected population of 206,000 people. Currently in its implementation phase, the city embodies the spirit and objectives of an ecological city, maximising opportunities through transport infrastructure, promoting a development strategy of high density core areas, a new central business district as well as seven character districts. ■



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ONEBUILD 2013 enters in its second edition



Kuala Lumpur, Malaysia - After the great success of the 1st edition last year, ONEBUILD returns again in 2013 with a bigger attraction. Organised by One International, the exhibition will be held on the 9-12 October 2013 at Putra World Trade Center (PWTC), Kuala Lumpur.

ONEBUILD is a specialised trade show that provides local and international players a premier platform to present their latest technology in the building, architecture, and construction technology industry. One International has incorporated both Construction Machinery and Industrialized Building System (IBS) to serve as an effective business gateway for the industry's leaders and key players in the market. Construction Research Institute of Malaysia (CREAM) will be conducting a half-day workshop on industrialised building system during the exhibition. Furthermore, the dedicated sections featured in ONEBUILD provide more complete solutions for industry professionals.

ONEBUILD 2013 is endorsed by the Public Works Department Malaysia (JKR) and Malaysia External Trade Development Corporation (MATRADE). The co-organiser for the event is Malaysia Hardware, Machinery & Building Materials Dealers' Association (MHMBA). Besides, there are contractors, engineers and consultants from JKR will pay a visit on the event day. On the other hand, the qualified exhibitors are entitled to enjoy the tax reduction and grant reimbursement by joining the said exhibition.

Also, there is Building Materials Distributors Association of Malaysia (BMDAM), Board of Engineers Malaysia (BEM), Concrete Society of Malaysia (CSM), Malaysian Cable Manufacturers Association (MCMA), Malay Contractors Association of Malaysia (PKMM), Malaysia Fire Protection Association (MFPA), The Electrical and Electronic Association Of Malaysia (TEEAM), Board Of Quantity Surveyors Malaysia (BQSM), Welding Institute (Malaysia) Berhad (WIM), Persatuan Pemborong Barangan Logam (PPBL), Association Of Malaysia Bumiputera Timber & Furniture Entrepreneurs (PEKA) and Machinery and Equipment Manufacturers Association of Malaysia (MEMA) were supported in the exhibition.

The participation of the exhibitors in this exhibition last year was 240, and this year the target had been set to 550. The organiser is confident in hitting the said target because of last year's favourable outcome and positive feedback from both exhibitors and visitors throughout the exhibition. Furthermore, the exhibition not only gained support from the local players, there are also pavilions of participation from China, Taiwan, Singapore and Thailand.

The exhibition does not only serve as a platform for both local and international players to promote their products and services; the private owned corporate can get in touch with most individuals and key decision makers from corporate and government entities. Furthermore, individual corporate can seize the chance to gain greater exposure among peer competitors throughout this exhibition. The number of visitors last year for the ONEBUILD 2013 was an astounding 5,045 visitors, whereas, the target number of visitors for this year is set to 10,000 to reach new heights.

"Last year's result (ONEBUILD 2012) turned out really well. I am expecting an even bigger response for this year's exhibition. I believe this year's ONEBUILD 2013 will reach a whole new level," said Mr Lim Kean Boon, Managing Director of One International Exhibition.

Co-located at ONEBUILD 2013, ONEWARE 2013 is the most specialised and only hardware trade event within Southeast Asia region. The event caters specifically to 7 major hardware industries, which are iron & steel, construction, machinery, furniture, agriculture, automotive and marine ship.

For more information on ONEBUILD 2013, tel (+60) 3 8943 7488, fax (+60) 3 8943 7599, e-mail enquiry@oneinternational.com.my or visit www.oneinternational.com.my. ■

