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NEWS RELEASE

CapitaLand more than doubles haul of BCA awards in strong affirmation of its commitment to sustainability

- ***CapitaLand bags 32 awards for inclusive and sustainable developments and construction excellence, up from 14 last year***
- ***CapitaLand accorded top honour of BCA Quality Excellence Award – Quality Champion (Platinum)***
- ***CapitaGreen receives first ever UD Mark Platinum and Construction Productivity Award – Platinum awards for a stand-alone office development***

Singapore, 26 May 2016 – CapitaLand Limited and its properties were accorded a total of 32 awards at the annual Building and Construction Authority (BCA) Awards today – the most since its participation in BCA Awards Night. The apex of these was the prestigious BCA Quality Excellence Award – Quality Champion (Platinum), the pinnacle tier of the award and an upgrade from the Gold^{PLUS} award that CapitaLand received in 2015. CapitaLand has been named a Quality Champion every year since the award was introduced in 2013.

Among the awards this year, CapitaLand was accorded four Universal Design (UD) Mark Awards, including the pinnacle Platinum award for its premium office development CapitaGreen – the first for a stand-alone office development. With four of the 10 Platinum awards accorded – the most among real estate developers in Singapore – since the UD Mark certification scheme was introduced in 2012, CapitaLand has cemented its position as the industry leader in building inclusive and user-centric developments for all people.

Mr Lim Ming Yan, President & Group CEO of CapitaLand Limited, said: “CapitaLand is honoured to be recognised by BCA with 32 awards for our projects. This is more than double the number of awards we received last year, and is a strong affirmation of our ongoing commitment to deliver high quality green and accessible developments. We are especially pleased to receive the pinnacle BCA Quality Excellence Award – Quality Champion (Platinum) this year. We have continued our record of being the real estate developer with the most UD Mark Platinum awards, and broken new ground by receiving the first ever UD Mark Platinum and Construction Productivity Award – Platinum awards for a stand-alone office building with CapitaGreen.”

CapitaLand was also accorded 21 Green Mark Awards (including nine provisional awards) this year, in a testament to the Group’s commitment to continue the greening of its properties. Seven awards went to CapitaLand properties in Singapore including the prestigious Green Mark Platinum for JCube, a leisure, fun and edutainment mall in western Singapore which houses the country’s only Olympic-size ice rink.

Aside from the UD Mark and Green Mark awards, CapitaLand properties also received accolades for other aspects of building excellence. CapitaGreen received the Construction Productivity Award – Platinum, the first ever Platinum award given out to a commercial development, and the Construction Excellence Award; while Sky Habitat received the Design and Engineering Safety Excellence Award. CapitaGreen received the accolades in recognition of the use of innovative methods and materials in its construction – resulting in it being completed in 36 months instead of the average 40 months it would have taken to complete a building of this scale.

By ensuring that its developments meet or exceed BCA's benchmarks for environmental sustainability, CapitaLand has laid the foundation for its tenants to incorporate similar practices in their own offices in its buildings. As a result, six office premises in CapitaLand properties were awarded the Green Mark Office Interior Award in recognition of their efforts to incorporate environmentally friendly features while still ensuring the comfort and well-being of office occupants. Three – CapitaHub in Capital Tower, CapitaGreen Tenant Service Centre and Six Battery Road Tenant Service Centre – received the pinnacle Platinum award. South32 at CapitaGreen and CBRE at Six Battery Road received the next highest Gold^{PLUS} award, while Lloyds Bank at CapitaGreen received the Gold award.

Mr Lim Ming Yan added: "Sustainability is ingrained in the way we do business. CapitaLand was a pioneer adopter of BCA's Green Mark framework, with Capital Tower and One George Street among the first office buildings in Singapore to be certified Green Mark Gold when the framework was introduced in 2005. Over 80% of our properties in Singapore have already been certified with at least a Green Mark Gold rating. We have also extended this green rating certification overseas with our projects in China, Vietnam, Malaysia, Indonesia and Australia achieving Green Mark. We have since gone beyond greening our own buildings to engage our office and mall tenants on incorporating sustainable practices in their own premises. We are delighted that these efforts are starting to pay off as six premises, including CapitaLand's own corporate headquarters CapitaHub, have received Green Mark Office Interior Awards this year."

Leading by example – greening CapitaLand's HQ

CapitaLand set a positive example by completing a green office fit-out of its own corporate headquarters, CapitaHub in Capital Tower, which is itself a Green Mark Platinum property managed by CapitaLand.

CapitaHub houses the corporate offices of CapitaLand and its business units in Singapore. It incorporates biophilic design – the integration of nature with architecture – to create a healthier, more conducive office environment by adopting an open office concept with minimal personal offices at the building core. Extensive lush indoor greenery, including two green walls and planters, are placed strategically throughout CapitaHub to further improve indoor air quality and provide a more conducive work environment. Training rooms have been creatively designed for easy conversion to exercise rooms after office hours or for townhall meetings and festive celebrations.

All lights installed in CapitaHub are energy efficient LED fittings, with light and motion sensors strategically placed to turn them off when there is sufficient natural lighting or when

no one is in the area. The most water-efficient fittings under the Public Utilities Board (PUB) Water Efficient Labelling Scheme (WELS) are installed in CapitaHub social pantries. Teleconferencing facilities are available in all meeting rooms and 15 meeting rooms have videoconferencing facilities. This cuts down on the need for business travel, further minimising the carbon footprint of staff. Recycling bins for plastic, metal and paper are also placed in all social pantries to encourage conservation of the environment.

Staff can use the stairways to move from one floor to another, instead of taking the elevators. One first aid room and four nursing rooms have also been provided, and a mini nursing fridge is available in all social pantries to cater to nursing mothers.

CapitaHub was recognised with a Green Mark Office Interior Award (Platinum), the highest tier in the category.

Supporting tenants in their sustainability journeys

CapitaLand went a step further by partnering its tenants in embarking on their own sustainability journeys. CapitaLand is currently on board the BCA Green Partnership Initiative, which is a multi-prong approach to reach out to the building owners and tenants through collaborative partnerships and engagement to improve sustainability outcomes in tenants' fit-out and daily operations. CapitaLand also participates in the BCA Green Mark Portfolio Programme which helps to simplify the process and reduce the cost for its office tenants to attain Green Mark certification, and regularly engages them on ways to incorporate sustainable features and processes in their office environments. As a result, three of CapitaLand's office tenants – South32, CBRE and Lloyds Bank – were also awarded the Green Mark Office Interior Award in 2015.

Mr Ang Kian Seng, Group Director for Environmental Sustainability of BCA, said: "It is very encouraging to see developers like CapitaLand taking the lead by greening its properties as well as its own corporate headquarters. In doing so, CapitaLand has set a positive example for its tenants and other developers to follow. CapitaLand has also been working closely with tenants on their sustainability journeys, through the BCA Green Partnership Initiative, the BCA Green Mark Portfolio Programme as well as its own green lease model for its mall tenants, and I'm glad to hear that more tenants are expressing interest in adopting eco-friendly practices. These highlight the critical role developers can play in making Singapore's building landscape a greener and more sustainable one."

Mr Garth Chapman, Senior Director, Project Management, South East Asia, CBRE who oversaw the certification process for its Singapore office, said: "CapitaLand has been extremely supportive of CBRE's green journey. It upgraded Six Battery Road three years ago and refurbished common areas including the toilets. This included installing energy efficient equipment such as hand dryers and motion detectors in taps, and upgrading the ceiling to allow for more energy efficient lighting. These initiatives paved the way for CBRE to secure the award, a crucial step in us taking the lead to reduce the impact of building operations on the environment and create a positive effect on the communities in which we live and work."

CapitaLand malls in Singapore furnish all tenants with a green fit-out guide to help them select environmentally sustainable fittings, implement good design in their shops and learn from best practices. CapitaLand malls also have a Green Lease model, which requires mall tenants to meet targets for their lighting budgets.

A continual journey of building and sustainability excellence

As part of its continuing commitment to sustainable development and operations, CapitaLand is guided by its in-house Sustainable Building Guidelines (SBG). These outline environmental, health and safety, as well as universal design considerations to be factored in at all stages of a project, from feasibility studies, design, procurement, construction and operations to redevelopment. SBG is incorporated into the Group's Environmental, Health and Safety Management System, which is externally audited to the ISO 14001 and OHSAS 18001 standards, and sustainability targets linked to key performance indicators.

About CapitaLand Limited (www.capitaland.com)

CapitaLand is one of Asia's largest real estate companies headquartered and listed in Singapore. The company leverages its significant asset base, design and development capabilities, active capital management strategies, extensive market network and operational capabilities to develop high-quality real estate products and services. Its diversified global real estate portfolio includes integrated developments, shopping malls, serviced residences, offices and homes. Its two core markets are Singapore and China, while Indonesia, Malaysia and Vietnam have been identified as new growth markets. The company also has one of the largest real estate fund management businesses with assets located in Asia.

CapitaLand's listed real estate investment trusts are CapitaLand Mall Trust, CapitaLand Commercial Trust, Ascott Residence Trust, CapitaLand Retail China Trust and CapitaLand Malaysia Mall Trust.

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ANNEX

To date, CapitaLand has received 18 Universal Design awards and 106 Green Mark awards (including 17 provisional awards) for developments across the region. Of the 106 Green Mark awards, 73 were for buildings in Singapore, 25 in China, three in Vietnam, three in Malaysia, one in Indonesia, and one in Australia.

List of Awards for 2016

No	Development	Rating
Quality Excellence		
1	CapitaLand's Quality Mark developments in Singapore over the past five years	Quality Excellence Award – Quality Champion (Platinum)
Universal Design Mark		
2	CapitaGreen	Universal Design Platinum
3	Bedok Mall and Bedok Residences	Universal Design Gold ^{PLUS}
4	The Nassim	Universal Design Gold ^{PLUS}
5	Sky Habitat	Universal Design Gold
Green Mark		
6	JCube	Green Mark Platinum
7	Jewel Changi Airport	Green Mark Gold ^{PLUS}
8	Lot One Shoppers' Mall	Green Mark Gold
9	Plaza Singapura	Green Mark Gold
10	Sembawang Shopping Centre	Green Mark Gold
11	The Atrium@Orchard	Green Mark Gold
12	The Star	Green Mark Gold
Overseas		
13	East Coast Mall, Kuantan, Malaysia	Green Mark Gold
14	CapitaMall Jinniu Phase 2, Chengdu, China	Green Mark Certified
15	Dolce Vita Zone C, Guangzhou, China	Green Mark Certified
16	CapitaMall Xuefu, Harbin, China	Green Mark Certified
17	Ascott Jakarta, Indonesia	Green Mark Certified
18	CapitaMall Westgate, Wuhan, China	Green Mark Gold (Provisional)
19	Century Park West Site, Chengdu, China	Green Mark Certified (Provisional)
20	Tianfu Life, Chengdu, China	Green Mark Certified (Provisional)
21	Città di Mare Phase 1, Guangzhou, China	Green Mark Certified (Provisional)
22	Dolce Vita Zones A, D, E & F, Guangzhou, China	Green Mark Certified (Provisional)
23	Dolce Vita Zone B, Guangzhou, China	Green Mark Certified (Provisional)
24	Imperial Bay, Hangzhou, China	Green Mark Certified (Provisional)
25	CapitaMall 1818, Wuhan, China	Green Mark Certified (Provisional)
26	Seasons Avenue, Hanoi, Vietnam	Green Mark Certified (Provisional)
Green Mark Office Interior		
<i>CapitaLand</i>		
27	CapitaHub in Capital Tower	Green Mark Office Interior Platinum
28	CapitaGreen Tenant Service Centre	Green Mark Office Interior Platinum
29	Six Battery Road Tenant Service Centre	Green Mark Office Interior Platinum
<i>Tenants</i>		
	CBRE (Six Battery Road)	Green Mark Office Interior Gold ^{PLUS}
	South 32 (CapitaGreen)	Green Mark Office Interior Gold ^{PLUS}
	Lloyds Bank (CapitaGreen)	Green Mark Office Interior Gold
Design and Engineering Safety Excellence		
30	Sky Habitat	Design and Engineering Safety Excellence <i>Recipient:</i> RSP Architects Planners & Engineers (Pte) Ltd
Construction Productivity Award		
31	CapitaGreen	Construction Productivity Award – Platinum

Construction Excellence Award		
32	CapitaGreen	Construction Excellence Award <i>Recipient:</i> Takenaka Corporation

* The properties above are in Singapore unless otherwise stated.

(A) Universal Design Mark Awards

CapitaGreen – Universal Design Mark Platinum & Construction Productivity Award Platinum

CapitaGreen is a 40-storey premium Grade A and sustainable office tower located in the heart of Singapore's Central Business District. CapitaGreen incorporates seamless design within the building's gross floor area (GFA) of about 880,000 sq ft to help the hearing-, visually- and mobility-impaired move more easily within the building. The height of the concierge counter is lower to cater to wheelchair users, and a Hearing Induction Loop System facilitates clearer conversations with customers with hearing aids. Lift doors are programmed to remain open longer for the benefit of mobility-impaired visitors.

Other features include barrier-free access to and within the building and a lift to help mobility-impaired visitors access the pedestrian underpass, with English Braille / tactile indicators at the start and end of the stairway leading to the underpass. CapitaGreen also includes family-friendly features such as nursing rooms and changing stations in men's and women's washrooms, as well as elder-friendly facilities such as grab bars in relevant areas.

To overcome site constraints, CapitaGreen was constructed using the efficient top-down construction method which allowed for the three-storey basement car park and 40-storey superstructure that houses the offices and commercial spaces to be built concurrently, saving time and resources.

CapitaGreen was also Singapore's first building under development to use supercrete, a special grade ultra-high strength concrete which significantly reduced the amount of concrete needed. By designing the floor slabs to span the basement walls, the need for temporary steel struts was eliminated. An efficient composite slab system for the floors combining precast concrete and steel beams reduced the typical floor cycle time from nine days to six days per floor. Other time-saving measures included the first-time use of huge 3.5m diameter bored piles, innovative connection devices for pre-cast column erection, and a dry-wrap method for the fireproofing of structural steel elements.

Bedok Mall and Bedok Residences – Universal Design Mark Gold^{PLUS}

Located in the heart of Bedok Town Centre, Bedok Mall and Bedok Residences are part of the first fully integrated retail-residential-transport development in the east of Singapore. Bedok Mall's Basement 2 is directly linked to the Bedok MRT station while the new air-conditioned Bedok bus interchange is integrated with the mall on Level 2.

From the onset of the design, the project team worked closely with the authorities to integrate the development with the rest of the neighbourhood. This includes connectivity to the adjacent hawker centre and the newly developed Bedok Town Plaza with three different ramped pathways that are now part of the terracing landscape feature.

Addressing the needs of families and the elderly living in the mature estate, the design of Bedok Mall incorporates family-friendly features and services such as nursing rooms and the

loan of strollers, wheelchairs and trolleys. Like all CapitaLand malls in Singapore, Bedok Mall has a guide-dog friendly policy which allows the visually impaired to visit the shopping mall with their canine guides with ease. The integrated development also offers family-friendly and more spacious bays and zebra crossings for pedestrians in its car park, with seating areas made available. Clear signs have been put up in the mall lifts to encourage users to be gracious and give way to those who are impaired and have greater need to use the lift. To promote green mobility, the mall offers 200 bicycle bays to cater to cyclists.

At the 583-unit Bedok Residences above Bedok Mall, communal recreational facilities with extensive landscaping are located on Levels 4 and 5. Ramps connecting both levels are integrated into the landscaping for the ease of residents' movement. The clubhouse is also equipped with family-friendly amenities such as children's toilets, a diaper station and a child-friendly water dispenser station.

Bedok Residences has its private vehicular drop-off and unloading bay on Level 3 and a school bus drop-off along Bedok North Drive. It also has wheelchair-friendly, spacious car parking bays and pedestrian crossings in its car park, and is well-connected to the various transport nodes such as taxi stands, bus interchange, MRT station, and bus stop, as well as drop-off points.

The Nassim – Universal Design Mark Gold^{PLUS}

The Nassim is a boutique development with 55 luxury homes located near Tanglin Road and Orchard Road.

Capitalising on the elevated topography, the apartment blocks and ancillary common spaces in The Nassim are segregated from vehicular traffic to create a safe and exclusive enclave for residents. This means that the elevated environmental deck (E-deck) is barrier-free and the flat ground allows wheelchairs and prams to move around freely.

The intuitive arrangement of apartment blocks around the E-deck provides clear orientation and aids way-finding. A building directory with English Braille will also be provided to assist in navigation of the residential development.

A unique feature of the plan allows one to step from the private lift with dual access directly into the private zone (including family room/s) or the social space, e.g. living room.

Even in the basement, large open-to-sky courtyards with water features serve as visual reference points as well as draw in daylight and fresh air. There are many seats in the common areas that offer opportunities for recreational gatherings and community bonding.

Sky Habitat – Universal Design Mark Gold

Sky Habitat is a 509-unit residential development designed by world-renowned architect Moshe Safdie, located in the heart of Bishan.

Connectivity between the residential blocks is lifted above ground, provided by three sky bridges with communal spaces on the 14th, 26th and 38th floors. Communal facilities such as the gymnasium, function room, party room, business centre, reading room and karaoke room are brought up to the upper levels, creating a variety of communal areas that are closer to the residents for recreation and social interaction.

With a series of ramps strategically placed around the estate to mitigate changes in gradients and single-level access throughout the estate, residents are able to enjoy barrier-free and uninterrupted pathways to all common facilities within the development. The sheltered drop-off at each block is located on the same level as the car park entrance, and is connected directly to the block lobby. This area is below the landscape deck and clearly separates pedestrian and vehicular circulation, ensuring safety for all users. The ground level landscape deck is also designed to be free of traffic for residents to enjoy the amenities safely.

(B) Green Mark Awards

Singapore properties

JCube – Green Mark Platinum

JCube is located in the heart of Jurong Gateway, just across the road from the Jurong East MRT and bus interchanges. A leisure, fun and edutainment mall, it boasts Singapore's first Olympic-size ice rink and the first IMAX cinema in the suburbs, as well as a host of educational services providers. The mall retained its Green Mark Platinum rating upon re-certification by BCA.

The mall chiller and cooling tower are Singapore Green Building Products certified by the Singapore Green Building Council (SGBC), and NEWater is used for the cooling tower make-up water. Greywater ice shavings from the ice rink resurfacing machine are recycled for the mall evaporative cooling system and cooling tower. Waste heat from the ice rink chiller is recycled to heat the water in the rink's shower rooms and the ice resurfacing machine. In addition, photovoltaic solar panels installed on the rooftop enable JCube to harness solar energy.

A considerable amount of sustainable materials has also been used throughout the mall. Softening the building façade are an outdoor terrace on Level 2 and a rooftop landscaped garden with a Teflon-covered event space on Level 5, installed with an evaporative cooling system. Organic compost is used to fertilise the landscaped areas.

Jewel Changi Airport – Green Mark Gold^{PLUS}

A joint venture between Changi Airport Group and CapitaLand Mall Asia, Jewel Changi Airport is envisioned as a world-class lifestyle destination. About 1.44 million sq ft in size, it encompasses facilities for airport operations, indoor gardens and leisure attractions, retail offerings and hotel facilities. It is targeted to open by early 2019.

Jewel's iconic glass façade uses double-glazed low emissivity glass which minimises solar penetration while allowing natural light to illuminate the internal spaces. The front of house lighting used throughout Jewel will be LED. Energy-efficient light features such as motion sensors and light sensors will be used to reduce artificial lighting when there is less need for it.

Jewel's design comes with a lush indoor garden in a carefully controlled indoor climate. To cope with the heat and humidity of the tropics, Jewel will adopt an efficient air-conditioning system that will feature radiant chilled slabs, integrated dehumidification air handling units (AHUs) and dynamic balancing control systems for targeted cooling of human-occupied zones. About 230,000 sq ft will be dedicated to landscaping throughout the complex. The thousands of trees, plants, ferns and shrubs in Jewel's gardens will also provide better indoor air quality.

Harvested rainwater will be used in Jewel's Rain Vortex water display and to irrigate landscape areas. In addition, the downward current created by the display will cool the surrounding environment naturally.

The photovoltaic panels installed in Jewel are expected to generate an estimated 430 MWh of energy each year. This is enough to power the energy needs of 77 five-room HDB flats for a year.

Lot One Shoppers' Mall – Green Mark Gold

Located next to the Choa Chu Kang MRT and LRT stations and bus interchange, Lot One Shoppers' Mall retained its Green Mark Gold rating upon re-certification by BCA. To achieve energy efficiency, Lot One uses a high-performing chiller plant and energy-efficient LED light fittings. Motion sensors are also installed in the stairwells to optimise energy consumption based on shopper traffic. Carbon monoxide sensors have been installed in the car park to ensure good ventilation and indoor air quality.

Lot One integrates ample greenery in its common areas, including a vertical green wall on Level 1 and a landscaped roof garden on Level 5. These help to alleviate the urban heat effect. The children's playground on Level 5, which features wet and dry play areas, uses recycled rubber for its flooring.

Rainwater is collected for irrigation at Lot One. PUB WELS-rated water-efficient fittings are used to reduce water consumption.

Plaza Singapura – Green Mark Gold

Located along Orchard Road, Plaza Singapura sits atop the Dhoby Ghaut MRT interchange. The mall retained its Green Mark Gold rating upon re-certification by BCA.

Plaza Singapura's double glazed glass façade and roof allow natural light to illuminate the mall, minimising the need for artificial lighting while the low-emissivity coating reduces solar heat entering the building. All travellers in the mall are installed with motion sensors to optimise energy consumption based on shopper traffic. Motion sensors are also installed in the stairwells for the same purpose.

Carbon monoxide sensors have been installed on every level of the car park to monitor indoor air quality and optimise the efficiency of the mechanical ventilation fans of the car park.

Sembawang Shopping Centre – Green Mark Gold

Sembawang Shopping Centre is a one-stop shopping, dining and entertainment destination located near Yishun and Sembawang MRT stations. The mall retained its Green Mark Gold rating upon re-certification by BCA.

Energy-efficient features in the mall include its air-conditioning and lighting systems. Photovoltaic solar panels installed on the mall rooftop enable it to harness solar energy.

PUB WELS-rated water-efficient fittings are used to reduce water consumption. The mall also uses condensate water from the AHUs, blown down water from cooling towers and harvested rainwater for irrigation. Utility sub-meter devices are installed in the cooling towers and toilets to better track water use.

Recycling bins are placed conveniently around the compound to encourage tenants and shoppers to recycle. Landscaping at the outdoor children's playground on Level 3 adds greenery to the mall. Organic compost is used to fertilise the landscaped areas.

To support green mobility, 10 bicycle bays are available for cyclists.

The Atrium@Orchard – Green Mark Gold

The Atrium@Orchard comprises a three-storey retail podium and two Grade A office towers. Directly connected to Plaza Singapura, it is conveniently located above Dhoby Ghaut MRT interchange.

The striking façade of The Atrium@Orchard features double-glazed laminated glass with a low-emission coating. Other energy-efficient features include its air-conditioning and lighting systems. Variable speed pumps and speed motors are installed in the cooling tower to lower motor power when the equipment runs with partial loading, reducing electricity consumption. Motion sensors are installed in the stairwells to optimise energy consumption.

PUB WELS-rated water-efficient fittings are used to reduce water consumption. Recycling bins are placed conveniently on different levels of the mall to encourage tenants and shoppers to recycle.

The Star – Green Mark Gold

The Star is an integrated development located in one-north – Singapore's biomedical, infocomm technology and media hub, and is directly linked to Buona Vista MRT interchange. It includes The Star Vista shopping mall, owned by CapitaLand Mall Asia. The Star retained its Green Mark Gold rating upon re-certification by BCA.

The Star Vista, which occupies Basement 1 to Level 2 of the integrated development, is the first major mall in the Buona Vista estate. Its design takes advantage of its natural surroundings to bring lush vegetation and water features into the civic plaza, turning the shopping experience into a unique, pleasant experience amidst nature. It enjoys the distinction of being Singapore's first naturally-cooled mall with the porous building design encouraging air movement to create a naturally cool environment in the common areas, supplemented by mechanical ventilation.

At the base of its spectacular 33-metre or 10-storey high Grand Foyer is a 200-seat amphitheatre and water feature, which helps cool breezes flowing through the building. To further cut down on water usage, the mall uses condensate water from the AHUs.

Overseas properties

East Coast Mall, Kuantan, Malaysia – Green Mark Gold

Strategically located in the heart of Kuantan city centre in Pahang, East Coast Mall is a modern family lifestyle mall. The mall received Green Mark Gold (Provisional) Award in 2013 and attained Green Mark Gold upon the completion of its asset enhancement initiative.

The mall uses energy-efficient chillers and its T8 lights have been replaced with more energy-efficient T5 lights. Carbon activated filters and ultraviolet (UV) bacteria-eradicating lights have been installed in the exhaust system to improve indoor air quality.

A rainwater harvesting system and PUB WELS-rated water-efficient fittings are used to reduce water consumption, and utility sub-meter devices track water use and detect leaks quickly.

The mall also has a recycling programme, which tenants are encouraged to join.

CapitaMall Jinniu Phase 2, Chengdu, China – Green Mark Certified

Located at the heart of Jinniu district in Chengdu, China, CapitaMall Jinniu added an extension in September 2013. The extension, CapitaMall Jinniu Phase 2, measures about 1.02 million sq ft – 1.5 times the size of the original mall. With the extension, CapitaMall Jinniu is now one of the largest landmark shopping malls in north-west Chengdu.

CapitaMall Jinniu Phase 2 boasts an energy-efficient chiller plant, boiler and pumps. As part of its sustainable operations, energy-efficient T5 fluorescent lights are used in circulation areas such as stairwells, car park and back-of-house. Motion detectors in the stairwells further reduce energy wastage by switching on the lights only when required. PUB WELS-rated water-efficient fittings are used to reduce water consumption.

During the construction phase, environmentally-friendly materials such as certified flooring, tiles and doors were used. In addition, paints certified to have low levels of volatile organic compound were used for all internal walls to minimise the emission of pollutants and achieve better indoor air quality.

Dolce Vita Zone C, Guangzhou, China – Green Mark Certified

Dolce Vita is a sprawling residential development in Jinshazhou district in northwest Guangzhou, China, occupying a site area measuring 3.23 million sq ft. It is located close to Xunfeng Mountain with lakes nearby. Phase 1 comprises eight 25-storey towers housing 935 apartments, with lush greenery in its compounds that resonate with the natural surroundings.

The apartment blocks adopt thermal insulation technology and environmentally-friendly construction materials that provide comfort to occupants and reduce energy consumption by preventing heat gain/loss through the building envelope. Further energy-savings are

achieved by using a light colour for the façade and a north-south cross-ventilation layout, as well as heat-absorbent glass and double glazed frontage windows.

Energy-efficient elevator systems are installed in the apartment blocks. The elevators are automatically put into sleep mode if there are no calls for a specified period of time. In addition, energy-efficient LED lights are installed in the common areas. Lights in the stairwells are activated by motion sensors and carbon monoxide sensors are used to regulate the need for mechanical ventilation in the basement car park.

CapitaMall Xuefu, Harbin, China – Green Mark Certified

CapitaMall Xuefu is a one-stop shopping mall offering fashion, F&B, leisure and entertainment. Located in Nangang District in Harbin, China, it is well-connected to public transport and is directly linked to the Xuefu Road station on Metro Line 1. It received the Green Mark Certified (Provisional) Award in 2013 and obtained Green Mark certification upon the development's completion.

Leveraging Harbin's unique weather conditions, the mall uses a heat exchanger to take advantage of the cool outdoor air during changes of seasons – which can last up to three months – to achieve free cooling. During the cooler seasons, chillers are not turned on to save energy. The mall installed T5 fluorescent lighting with electronic ballast in circulation areas, such as the car park, maintenance room and stairwells. Lights in the stairwells are activated by motion sensors. Energy-efficient LED lights have also been installed in the mall's Dream Park, the city's first indoor eco park.

To promote green mobility, three electric charging bays are installed at the mall entrance. Electric car owners enjoy free parking and car charging when they park at these bays.

Ascott Jakarta, Indonesia – Green Mark Certified

Located in the heart of Jakarta's Golden Triangle business and shopping district, Ascott Jakarta is the only serviced residence to be awarded BCA Green Mark certification in Indonesia's capital city. The 204-unit serviced residence went through a multi-million dollar refurbishment to incorporate environmentally-friendly features while providing guests with the comforts of a home away from home. Energy-efficient LED lighting and water-saving fittings are used in all apartments and common areas. The air conditioners in Ascott Jakarta utilise the variable refrigerant flow system, which significantly reduces energy consumption and does not contain ozone-depleting refrigerants. Paints and adhesive with low volatile organic compounds were used during the refurbishment process to maintain good indoor air quality. Ascott Jakarta also has recycling bins placed at convenient locations to encourage guests and staff to recycle.

(C) Green Mark Office Interior Awards

CapitaGreen Tenant Service Centre – Green Mark Office Interior Platinum

CapitaGreen's Tenant Service Centre achieved the BCA Green Mark Office Interior Platinum Award for adopting energy-efficient features and sustainable practices. These include setting the office temperature at the recommended 24⁰ C, as well as achieving an Energy Efficiency Index of 56.42 kWh/m²/year and lighting budget of 6.05 W/m². Its open office concept with minimal partitions and enclosed rooms, coupled with the full height glass windows of the building, allow the inflow of natural sunlight and reduce the lighting intensity required. Energy-efficient lighting, LED downlights and table lamps for individual desks have been installed to further reduce office lighting requirements.

About 97% of the office equipment has been certified with ENERGY STAR, an international label for energy-efficient consumer products that generally use 20% to 30% less energy than minimum standards. The office also uses carpet, paint and ceiling boards which are Singapore Green Building Products certified by the SGBC, as well as PUB WELS-rated water-efficient taps. Instead of using non-biodegradable disposable styrofoam cups, glasses and ceramic cups are provided in the pantry and meeting rooms.

To facilitate the handover of commercial units to tenants, staff use an innovative Digital Online Tenancy System to reduce paper consumption.

Six Battery Road Tenant Service Centre – Green Mark Office Interior Platinum

A landmark building in the heart of Raffles Place, Six Battery Road was the first operating office building in the Central Business District to be conferred the prestigious Green Mark Platinum Award.

The Tenant Service Centre located at the basement of Six Battery Road achieved Green Mark Office Interior Platinum Award for adopting energy-efficient features and sustainable practices. These include achieving an Energy Efficiency Index of 50.09 kWh/m²/ year and lighting power budget of 9.89 W/m².

The open office concept with minimal partitions and enclosed rooms reduces the lighting intensity required. In addition, energy-efficient lightings and table lamps for individual desks have been installed to further reduce office lighting requirements. About 92% of the office equipment has been certified with ENERGY STAR.

The office also uses carpet, paint and ceiling boards which are Singapore Green Building Products certified by the SGBC, as well as PUB WELS-rated water-efficient water taps. Instead of using non-biodegradable disposable styrofoam cups, glasses and ceramic cups are provided in the pantry and meeting rooms. To encourage recycling, paper recycling bins are conveniently placed beside the photocopier machine.

To facilitate the handover of commercial units to tenants, staff use an innovative Digital Online Tenancy System to reduce paper consumption.